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Lesson 1: Multiply by 2 and 4 Lesson 2: Multiply by 5 and 10 Lesson 3: Multiply by 3 and 6 Lesson 4: Algebra • Distribution Property Lesson 5: Multiply by 7 Multiplied by 7 Page No 219 Multi With 7 Lesson Checkpoint No 220 Mid-Chapter Checkpoint Page No 221 Mid-Chapter Checkpoint Page No 222 Lesson 6: Algebra • Associative Property of Multiplication Lesson 7: Algebra • Patterns on the Multi Vermen Multiply by 8 Page No 239 Multiplied by 9 Lesson 9: Multiply by 9 Page No 245 Multiplied by 9 Lesson Check Page No 246 Lesson 10: Problem Solving • Multiplication Multiplication Multiplication Page No 251 Multiplication Lesson Check Page No 252 Chapter 4 Review / Test Multiply by 2 and 4 Page No 195 Write a Multiplication Sentence for the model. Question 1. Think: There are 2 groups of 5 counters. Answer: 2 × 5 = 10 Explanation: Draw 2 counters. Place 5 Goals in 2 scorers. Count the total number of goals and them. Add 5+5 to get the answer. Finally, you get 10. Question 2. _____ × ____ = ____ Find the product. Answer: 4×3 = 12 Explanation: Look at the above figure. You can see 4 Counters and 3 goals on each counter. So, you need to multiply 4×3. If you multiply by 4, you can multiply by 2 first and then double the product. Multiply 3 by 2. You'll get 2×3's 6. Now doubles the number 6. The final answer is 12. Question 3. 2 × 6 — ____ Answer: 2×6 = 12 Explanation: When there is a multiplication required by 2, you can double the given number 6 to get the final answer. The answer is 6+6 = 12. Question 4. 4 × 8 — ____ Reply: 4×8 = 32 Explanation: You doubles 2×8 to get 4×8. Multiply 8 by 2. You'll get 16. Then double the product to get the answer to 4×8. You get 16 +16 = 32. So, you get the final answer 32. Question 5. 2 × 3 — ____ Reply: 2×3 = 6 Explanation: Draw two counters. Place three goals in two scorers. Now add the goals in two scorers. The final answer is 3 +3 = 6. So, 2×3=6 is the answer. Question 6. 4 × 6 — Reply: 4×6 = 24 Explanation: You can get double 2×6 to 4×6. Multiply 6 by 2. You'll get 12. Then double the product to get the answer at 4×6. You get 12 + 12 = 24. So, you get the final answer as 24. Question 7. 4 × 4 — Reply: 4×4 = 16 Explanation: Multiply 4 by 2. 2×4 = 8. Now doubles the number 8. 8+8 = 16. The answer for 4×4 is 16 Question 8. $2 \times 7 - -$ Answer: $2 \times 7 = 14$ Explanation: The given multiplication is 2×7 . The answer to any number multiplication is $2 \times 7 = 14$. Question 9. $4 \times 5 - -$ Answer: $2 \times 7 = 14$. Question 9. $4 \times 5 - -$ Answer: $2 \times 7 = 14$. So, the final answer to any number multiplication is $2 \times 7 = 14$. So, the final answer is $2 \times 7 = 14$. Question 9. $4 \times 5 - -$ Answer: $2 \times 7 = 14$. So, the final answer is $2 \times 7 = 14$. $4 \times 5 = 20$ Explanation: First, multiply 2×5 to get the answer for 4×5 . Then, double the answer from 2×5 to get the final answer. So do $2 \times 5 = 10$. Doubles the number 10 to get the 4×5 Reply. The double of 10 is 10 +10 = 20. The answer at 4×5 is 20. Question 10. $2 \times 4 - -$ Reply: $2 \times 4 = 8$ Explanation: The multiplication begins with 2. So, you can double 4 to the 2×4 answer. The double of 4 is 4 +4 = 8. The answer for 2×4 is 8. Problem-solving Question 11. Steven read 9 pages of his new book on Monday. To finish the first chapter on Tuesday, he must read double the number of pages he read Monday. How many pages should he read tuesday? pages Reply: 18 Explanation: Steven reads 9 pages of his new book on Monday. He is due to finish his first chapter on Tuesday. To complete the chapter, he must double the number of pages he read on Monday. Double of pages read Monday = 9 x 2 = 18. Steven should read 18 pages on Tuesday. Question 12. Courtney's school has a family game night. Each table has 4 players. There are 7 tables in all. How many players are at the game night? _____ players Reply: 28 Explanation: Some of the given information gave Courtney's school a family game night. Each table has 4 players. There are 7 tables in all. So, each table has 4 players. To know the total number of players in the game night, we need to multiply 7 by 4. Total number of players in the game night = 7 x 4 = 28. Multiply by 2 and 4 Lesson Check Page No 196 Les Check Question 1. What multiplication sentence corresponds to the model? Options: a. 3 × 2 = 6 b. 4 × 2 = 8 c. 4 × 4 = 16 d. 4 × 8 = 32 Answer: b Explanation: The above figure consists of 4 counters. Each counter also has two goals in it. We must therefore multiply the number of counters by a number of goals. The answer is 4×2 = 8. Question 2. Find the product. 2 × 8 — a. 10 b. 14 c. 16 d. 18 Answer: c Explanation: To resolve the 2×8, double the number 8. The answer for 2×8 is 8+8. So, the final answer is 2×8 = 16. Question 3. Sean made a photography to show his friends' favorite colors. That's key for the chart. Each O = 2 friends. How many friends do O O O you stand? Options: a. 4 b. 8 c. 20 d. 40 Reply: b Explanation: Sean made 4 photographies to show his friends' favorite colors. Each O represents 2 friends. So, to find the final answer, we need to add all the colors. Since there are 4 image graphs, you must do 2 + 2 + 2 + 2 = 8. There are 8 friends available. Question 4. The table shows the lengths of a few walks. How many feet longer is Mountain Trail than Harmony Trail? Options: a. 216 ft b. 264 ft c. 316 ft d. 528 foot Answer: c Explanation: In the above table, we can see three different hiking trails lengths from three persons. The hiking trail length of the Mountain is 844feets. The hiking trail length is 528 feet. To get How many feet are longer mountain trail than Harmony Trail, we need to pull Down Harmony hiking trail length from Mountain Trail length. So, now we have to do 844-528 which equals 316 feet. So, Mountain Trail runs 316 feet as Harmony trail. Question 5. Find the sum. 5 2 7 + 1 5 4 -———- Options: a. 373 b. 581 c. 671 d. 681 Reply: c Explanation: Breaks apart the additions of the given values. Start with the hundreds. Then add each location value. Let's write 527 as 500+ 20+ 7 and 154 as 100+ 50+ 4. Summarate the above two values. Then you get 600+ 70 + 11. Add the and then add the 10's and 100s. The final answer is 681. Ouestion 6. A bar chart shows that sportsbooks got 9 votes. If the scale is 0 to 20 by two, where should the bar end for the sportsbooks? Options: a. between 8 and 10 b. at 10 c. on 8 d. between 6 and 8 Reply: c Explanation: As per the given data, the sportsbooks received 9 votes. If we take a bar chart with a scale of 0 to 20 by two, the graph is 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20. Thus, the number 9 will lie between numbers 8 and 10. Therefore, the answer is between 8 and 10. Multiply by 5 and 10 Page No 201 Find the product. Question 1. 5 × 7 = 35 Reply: 35 Explanation: Hitting score by 5's until you say 7 numbers. 5, 10, 15, 20, 25, 30, 35. Now, the score of the number is 7. So, the answer for 5 x 7 is 35. Question 2. 5 × 1 = Answer: 5 Explanation: Any number multiplied by 1 is the same number. So, the answer is 5. Question 3. $2 \times 10 =$ Answer: 20 Explanation: A multiple of 10 is any product that has 10 as one of its factors. So, multiplying any number by 10 is 10's of that particular number. The answer is 20. Question 4. = 8 × 5 Reply: Explanation: From Commutative Law of Multiplication, You Can Write Writing x 5 = 5 x 8. So, to find the multiplication of 5 x 8, Skip count by 5's until you say 8 numbers. 5, 10, 15, 20, 25, 30, 35, 40. Now, the score of the number is 8. So, the answer for 5 x 8 is 40. Therefore, the answer is for 8 x 5 40. Question 5. $1 \times 10 =$ Answer: 10 Explanation: Multiplying any number by 1 is the same number. So. $1 \times 10 =$ 10. = 4 × 5 Answer: 20 Explanation: Using the Commutative Law of Multiplication, you can write 4 x 5 = 5 x 4. Skip now with 5s until you say 4 numbers. 5, 10, 15, 20. Therefore, the answer is for 5 x 4 20. Question 7. 5 × 10 = Answer: 50 Explanation: Skip-Score by 5's 10 times. You can write as 5, 10, 15, 20, 25, 30, Ouestion 6. 35, 40, 45, 50. The answer for 5 x 10 is 50. Question 8, 7 × 5 = Answer: 35 Explanation: Write 7 x 5 as 5 x 7 according to the Commuting Act of Multiplication, Do now multiply by 5 x 7, hitting score with 5's seven times. Now you can write as 5, 10, 15, 20, 25, 30, 35. The answer for 5 x 7 is 35. So, the answer for 7 x 5 also 35. $= 5 \times 5$ Reply: 25 Explanation: Skip count by 5's 5 times. You can get 5, 10, 15, 20, 25. The answer for 5 x 5 is 25. Question 10. 5 × 8 = Answer: 40 Explanation: You can skip with 5's 8 times. Subscribes like 5, 10, 15, 20, 25, 30, 35, 40. So, the answer for 5 x 8 is 40. Question 11. = 5 × 9 Answer 45 Ouestion 9. Explanation: The multiplication of 5 × 9 is calculated as Ship Count by 5's 9 times. You can write as 5, 10, 15, 20, 25, 30, 35, 40, 45. The final answer for 5 × 9 is 45. Question 12. 10 × 0 = Answer: 0 Explanation: Multiplying any number by 0 is 0. So, the answer for 10 × 0 is 0. Question 13. 5 × 6 — Answer: 30 Explanation: Skip Question 15. 5 × 3 — Answer: 15 Explanation: Skip count with 5s until you say 3 numbers. Writes like 5, 10, 15. The answer for 5 x 3 is 15. Question 16. 10 × 4 — Reply: 40 Explanation: Add 10's until you say 4 numbers. Then write like 10 + 10 + 10 to get the answer. The answer for 10 x 4 is 40. Question 17. 5 × 0 — Reply: 10 Explanation: Skip count with 5's until you say 2 numbers. Writes like 5, 10. The answer for 5 x 2 is 10. Question 20. 10 × 6 — Reply: 60 Explanation: Add 10's until you say 6 numbers. Write as 10+10+10+10+10+10+10+10+10. Now add the 10s to get the final answer. So, the answer for 10 x 6 is 60. Problem-solving 52-----Question 21. Ginger takes 10 nickels to buy pencils at the school store. How much cent should Ginger spend? cent Reply: 50 Explanation: From the given data, Ginger takes 10 nickels to buy pencils at the school store. One nickel can be treated as 5 cents. Thus, 10 nickels value is 10 nickels x 5 cents = 50 cents. Ginger should spend 50 cents buying pencils at the school store. Question 22. The gym at Evergreen School has three basketball courts. There are 5 players on each of the courts. How many players are there in all? _____ players Reply: 15 Explanation: As per the given data, the gym at Evergreen School has three basketball courts. There are 5 players on each of the courts. The number of players there in all = 3 basketball courts x 5 players = 15 players are available in total. Multiply by 5 and 10 Lesson Check page No 202 Question 1. Mrs Hinely grows roses. There are 6 roses on each of her 10 rose bushes. How many roses in all are on Mrs Hinely's rose bushes? Options: a. 16 b. 54 c. 60 d. 66 Answer: 60 Explanation: There are 10 rose bushes available. In each rose bush, Mrs. Hinely grows 6 roses, you need to multiplication of 10 x 6 is 60. The number of roses in all is on Mrs Hinely's rose bushes is 60. Question 2. Find the product. 5 × 8 — Options: a. 8 b. 16 c. 35 d. 40 Answer: 40 Explanation: Skip count by 5's 8 times. Subscribes like 5, 10, 15, 20, 25, 30, 35, 40. So, the answer for 5 x 8 is 40. Spiral assessment Question 3. Mr. Miller's class voted on where to go for a field trip. Use the image chart to find which choice had the most votes. Options: a. Science Center b. Aquarium c. Zoo d. Museum Answer: c. Zoo Explanation: From the given figure, Mr. Miller's class voted for a field trip. From the table, each start represents 2 votes. It is mentioned that for the Science Center, Mr Miller's given two begins. If one star represents 2 votes, he gave 4 votes for Science Center. Likewise, Aquarium = 3 and a half stars. The half a star represents one voice. So, the number of votes given for the Aquarium is 7. For Zoo, he gave 4 stars. So, every start means 2 votes is 8. Finally, the number of starts for the Museum 2. Thus, the total number of votes is 4. Mr. Miller's class gets a high number of votes for Zoo. So. Mr. Miller's class wants to go for Zoo. Question 4. Zack has this table for recording. How many was interviewed in everyone? Options: a. 38 b. 43 c. 47 d. 49 Answer: c. 47 Explanation: Zack prepared a table of flavors and voices. So, each voice represents one person. By adding the total number of votes, we can get the total number of students who participated in ina survey. Add 16 + 10 + 9 + 12 = 47. 47 students were interviewed in everyone to vote for their favorite juice. Question 5. Which of the following numbers are divided by 2. Also, even numbers end with a digit of 0, 2, 4, 6 or 8. So, the given number from the given numbers is 28. It is ended by 8 and it can also split by 2. Question 6. Estimate the sum. 4 7 9+ 8 9 ----- Options: a. 568 Explanation: Add those. Regroup the people as ten and children. So, 9 + 9 = 18. Stay the 8 the same and add the 1 to the ten. Add the ten. Regroup the tens as hundreds and tens. Now add 7+ 8 + 1 = 16. place the 6 in ten place and move the 1 to hundreds. Add the hundreds now. 4 + 1 = 5. So now put the numbers in order. The final answer is 568. Note: The option is adjusted for the above question. There is no correct answer available in the given options. Option is therefore changed to the correct answer. The answer is explained with the location value to add two add-on method. Multiply by 3 and 6 Page No 207 Find the product. Ouestion 1. 6 × 4 = 24 Think: You can use doubles. 3 × 4 = 12 12 + 12 = 24 Reply: 24 Explanation: By using doubles, we can find a 6 x 4 value. First, multiply the factor by half 6. So, now we can do $3 \times 4 = 12$. Now we can double the value of 3×4 . That's 12 + 12 = 24. So, the answer for $6 \times 4 = 24$. Question 2. $3 \times 7 =$ Reply: 21 Explanation: Skip count by 3's until you say 7 numbers. 3, 6, 9, 12, 15, 18, 21. So, the answer for 3×7 is 21. Question 3. $= 2 \times 6$ Answer: 12 Explanation: With the Commutative Law of Multiplication, you can write 2 x 6 as 6 x 2. Multiply the factor 2 by 5 and then add the factor to it to get the final answer. First, multiply the factor by 5. That's 5 x 2 = 10. Now add the factor with the answer of 5 x 2. 10 + 2 = 12. The answer for 6 x 2 is 12. So, the answer for 2 x 6 is 12. Question 4. $= 3 \times 5$ Reply: 15 Explanation: You can skip count by 3's until you say 5 numbers. 3, 6, 9, 12, 15. So, the final answer for 3 x 5 is 15. Question 5. 1 × 3 = Answer: 3 Explanation: Multiplying any number by 1 is the same number. So, 1 x 3 = 3. Question 6. $= 6 \times 8$ Reply: 48 Explanation: Use doubles to find the answer of 6 x 8. First, multiply 3 x 8 = 24. Then double value of 3×8 . 24 + 24 = 48. The answer for 6×8 is 48. Question $7.3 \times 9 =$ Answer: 27 Explanation: Skip Count by 3's until you say 9 numbers. Subscribes like 3, 6, 9, 12, 15, 18, 21, 24, 27. 27. answer for 3×9 is 27. Question 8. = 6×6 Reply: 36 Explanation: Use doubles to find the answer of 6×6 . First, multiply 3 x 6 = 18. Then double the value of 3 x 6. 18 + 18 = 36. The answer for 6 x 6 is 36. Question 9. 4 × 3 — Answer: 12 Explanation: Write 4 x 3 as 3 x 4 according to the Commutation. Do now multiplication for 3 x 4. hitting score with 3s four times. Now you can write as 3, 6, 9, 12. The answer for 3 x 4 is 12. So, the answer for 4×3 also 12. Question 10. $6 \times 5 - 4$ Answer: 30 Explanation: Multiply the given factor 5 by 5. Then add 5 to 25. 5 + 25 = 30. So, the answer for 6×5 is 30. Question 11. $2 \times 3 - 4$ Answer: 6 Explanation: Using the Commutative Law of Multiplication, you can write 2 x 3 = 3 x 2. Skip now with 3's until you say 2 numbers. 3, 6. The answer for 6 x 3 is 6. Question 12. 6 × 3 — Answer: 18 Explanation: Doubles the value of 3 x 3 to get the answer for 6 x 3 is 6. Question 12. 6 × 3 — Answer: 18 Explanation: Doubles the value of 3 x 3 to get the answer for 6 x 3 is 6. Question 12. 6 × 3 — Answer: 18 Explanation: Doubles the value of 3 x 3 to get the answer for 6 x 3 is 6. Question 12. 6 × 3 — Answer: 18 Explanation: Doubles the value of 9. The answer for 6 x 3 is 9 + 9 = 18. Question 13. 10 × 6 ---- Answer: 60 Explanation: Using the Commutative Law of Multiplication, you can write as 10 × 6 = 6 × 10. Now add the 10 to 50 to get the answer. The answer for 6 × 10 is 10 + 50 = 60. So, the answer for 10 × 6 is 60. Question 14. 3 × 6 -Answer: 18 Explanation: Skip-Score by 3's 6 Times. You can write as 3, 6, 9, 12, 15, 18. The answer for 3 x 6 is 18. Question 15. 7 × 6 — Answer: 42 Explanation: With the help of the Commuting Act of Multiplication you can change 7 x 6 to 6 x 7. Doubles the value of 3 x 7 to get 6 x 7. Now do 3 x 7 = 21. Doubles the 21. 21 + 21 = 42. The answer for 6 x 7 = 42. So, the answer for 7 x 6 is 42. Question 16. 3 × 0 — Reply: 0 Explanation: Multiplying any number by 0 is 0. So, the answer for 3 x 0 is 0. Question 17. 9 × 6 — Answer: 54 Explanation: Write 9 x 6 as 6 x 9 using the Commuting Act of Multiplication. Multiply the 9 by 5. 5 x 9 = 45. Now add the 45 to the 9. So, the answer for 6 x 9 is 45 + 9 = 54. Therefore, the answer is for 9 x 6 54. Question 18. 3 × 3 — Reply: 9 Explanation: Use Commuting Act of Multiplication to write 10 x 3 to 3 x 10. Skip now counts by 3's until you say 10 numbers. 3, 6, 9, 12, 15, 18, 21, 24, 27, 30. So, the answer for 3 x 10 is 30. Therefore, the answer is for 10 x 3 30. Question 20. 1 × 6 — 6 Explanation: explanation: of any number by 1 is the same number. So, 1 x 6 = 6. Problem-solving Question 21. James got 3 hits in each of his baseball games. He played 4 baseball games. How many hits did he have in all? hits Explanation: As per the given data, James has 3 hits in each of his baseball games. To find the number of hitters he's had in all, we need to multiply, 3 hits x 4 baseball games. So, the answer is 3 x 4 = 12 hits. Question 22. Mrs Burns buys muffins. There are 6 muffins in each box. If she buys 5 boxes, how many muffins will she buy? muffins Reply: 30 muffins Explanation: From the provided information buy Mrs Burns muffins. She goes to buy 5 boxes each have 6 muffins in it. So, to find the total number of muffins, we need to multiply, number of boxes and number of muffins in it. The total number of muffins = 6 x 5 = 30. She's going to buy 30 muffins. Multiply by 3 and 6 Lesson Check page No 208 Question 1. Paco buys a cardboard eggs. The cardboard has 2 rows of eggs. There are 6 eggs in each row. How many eggs are in the cardboard? Options: a. 8 b. 12 c. 14 d. 24 Answer: b. 12 Explanation: From the given data, Paco buys a cardboard eggs. The cardboard has 2 rows in it. Each row has 6 eggs. To find the number of eggs for each row. Therefore, the number of eggs in the cardboard eggs are available in the carton. Ouestion 2, Find the product, 9 × 3 — Options; a, 18 b, 24 c, 27 d, 36 Answer; c, 27 Explanation; Use Commutation Act of Multiplication to write 9 x 3 to 3 x 9. Skip now counts by 3's until you say 9 numbers, 3, 6, 9, 12, 15, 18, 21, 24, 27, So, the answer for 3 x 9 is 27. Therefore, the answer is for 9 x 3 27. Spiral assessment Ouestion 3. Find the difference. 5 6 8 – 2 8 3 — Options: a. 285 b. 325 c. 385 d. 851 Answer: a. 285 Explanation: Sublease those. 8 – 3 = 5. Then pull off the tens. 6 & lt; 8. Thus, regroup 5 hundreds of 6 dozens equal to 4 hundreds 8 ten. 16 – 8 = 8. Pull off the hundreds and add them to check the answer. 4 – 2 = 2. The final answer is 285.

Question 4. Dwight made double the number of baskets in the second half? Options: a. 7 b. 9 c. 10 d. 20 Answer: c. 10 Explanation: Given that Dwight made double the number of baskets in the second half? the basketball game than in the first half. He made 5 baskets in the first half. So, to find the second-half baskets, we need to double the baskets in the first half. Baskets in the first half. Baskets in the second half = 5 x 2 = 10. Question 5. In Jane's picture chart, the C Art. many students does it represent? It? a. 40 b. 32 c. 24 d. 16 Answer: d. 16 Explanation: Some of Jane's picture graph represents 🙄 Smile Symbols. To find the total number of students, we need to multiply the number of students for each smile. The number of students for a row is 8 x 2 = 16. Question 6. What multiplication sentence does this array show? Options: a. 5 × 6 = 30 b. 6 × 6 = 30 c. 5 × 5 = 25 d. 1 × 6 = 30 Explanation: The given array shows that it has 6 boxes for a row and 5 boxes for a column. So, by multiplying the number of rows x number of columns, the correct answer is $6 \times 5 = 30$. Using the Commutative Law of Multiplication, we can write $6 \times 5 = 5 \times 6$. So, the answer of the given options is $5 \times 6 = 30$. Distribution property page No 213 Write one way to break the array apart. Then find the product. Question 1. $(3 \times 7) + (3 \times$ Distribution property to get the final answer. Break the array rows to make two smaller arrays with the facts 3 and 3. Now you can write the given array as (3+3) x 7. Then, multiply each additive by 7. The equation is (3 x 7) + (3 x 7). Simplify and add it to get the final answer. 21 + 21 = 42. Question 2. Answer: 32 Explanation: The given array has 8 columns and 4 rows. Simplifies the answer, we need to write 4 x 8. By doing smaller arrays, you can write them as (2+2) x 8. Multiply each additive by 8. The equation is (2 x 8) + (2 x 8). Simplify and add it to get the final answer. 16 + 16 = 32. Question 3. Reply: 54 Explanation: The given figure has 9 columns and 6 rows. Use Distribution property to get the answer from a given array. Let's break the array rows with two smaller arrays with the facts 3 and 3. Now write the equation as 6 x 9 = (3 + 3) x 9. Multiply every 3 by 9. _Answer: 56 Explanation: The given array has 8 columns and 7 rows. With the help of Distribution property, you can resolve the given array. Break the array columns with two smaller arrays with the facts 4 and 4. Write the equation as (7 x 4) + (7 x 4) = 28 + 28 = 56. Problem-solving 27 + 27. The final answer is 54. Question 4. Question 5. There are 2 rows of 8 chairs set up in the library for a puppet show. How many chairs are there in all? Use the Distribution property to resolve. Chairs Reply: 16 Explanation: Of the information given there are 2 rows of 8 chairs set up in the library for a puppet show. So, in the array, there are 2 rows and 8 To find the answer, we need to multiply 2 x 8. Using distribution property, we can resolve 2 x 8. Sums the number 2 with facts 1 and 1. So, we can write if (1 (1 1) x 8. Simplify the answer by multiplying each add-on to 8. (1 x 8) + (1 x 8) = 8 + 8 = 16. There are 16 chairs available in 2 rows. Question 6. A marching band has 4 rows of trumpeters with 10 trumpeters in each row. How much trumpeters in each row. How much trumpeters, we need to calculate 4 x 10. With the help of Distribution property, you can separate the one number with its sums. Now write the 4 with its sums 2 and 2. (2 + 2) x 10. Now you can multiply each addend by 10. (2 x 10) + of the Distribution property? Options: a. $7 \times 6 = 6 \times 7$ b. $7 \times (2 \times 3) = (7 \times 2) \times 3$ c. $7 \times 6 = (7 \times 3) + (7 \times$ adding the products. So, from the given options, c. $7 \times 6 = (7 \times 3) + (7 \times 3)$ is the correct answer. Question 2. What's one way to break the array apart? Options: a. $(2 \times 6) + (4 \times 2) + (4 \times 2) + (4 \times 4) + (4 \times 3) + (6 \times 3) + (6 \times 3) + (2 \times 6) + (2 \times 6$ property, you can easily find the answer. Let's break the array rows with two smaller arrays with the facts 2 and 2. Now write the equation can be written as (2 x 6) + (2 x 6). Spiral assessment Question 3. The school auditorium has 448 chairs set out for the third grade performance. What are 448 rounded to the nearest ten? Options: a. 500 b. 440 c. 450 d. 400 Answer: c. 450 Explanation: Given that the school auditorium has set out 448 number lies between 440 and 450. 448 is closer to 450 than it is to 440. So, 448 laps up to 450. Question 4. Find the difference. 4 0 0 -296 ------- Options: a. 104 b. 114 c. 204 d. 296 Answer: a. 104 Explanation: Subdeve those. 0&It;6. so regroup 0 ten 0 children = 1 ten 4 children. Now do 10 - 6 = 4. Then pull off the tens. 9 = 9. So, so regroup 0 ten 0 children = 1 ten 4 children. Now do 10 - 6 = 4. Then pull off the tens. 9 = 9. So, so regroup 0 ten 0 children = 1 ten 4 children. answer is 104. Question 5. There are 622 fruit snacks in one crate and 186 in another crate. How many fruit snacks are there in all? 6 2 2 + 1 8 6 ------ Options: a. 436 b. 708 c. 768 d. 808 Answer: d. 808 Explanation: Breaking the of the given values apart. Get Started the hundreds. Then add each location value. Let's write 622 as 600+ 20+ 2 and 186 as 100+ 80+ 6. Summarate the above two values. Then you get 700+ 100+ 8. Add the and then add the 10's and 100s. The final answer is 808. Question 6. What sport do 6 students play? a. Football b. Baseball c. Basketball d. Football Answer: a. Football Explanation: From the given photo, it's called that the sports students play and the number of students. Football needs 6 students. Baseball requires 12 students. Baseball requires 12 students. So, the answer is Football sports require 6 students to play. Multiply by 7 Page No 219 Find the Product. Question 1. 6 × 7 = 42 Answer: 42 Explanation: By using doubles, we can find a 6×7 value. First, multiply the factor by half 6. So, now we can do $3 \times 7 = 21$. Now we can double the value of 7×9 . If we take 7 rows = 7×9 Reply: 63 Explanation: Use the distribution property to find the value of 7×9 . If we take 7 rows and 9 columns of an array, we can break the array into two smaller arrays with the facts of 9. Now write the 7 x 9 as 7 x (6 + 3). Multiply the facts by the 7. Then you get (7 x 6) + (7 x 3). Therefore, you get the answer as 42 + 21 = 63. Question 3. _____ = 1 × 7 Reply: 7 Explanation: Multiplying any number by 1 is the same number. So, 1 x 7 = 7. Question 4. 3 × 7 = ____ Reply: 21 Explanation: Skip count by 3's until you say 7 numbers. 3, 6, 9, 12, 15, 18, 21. So, the answer for 3 x 7 is 21. Question 5. 7 × 7 = _____ Answer: 49 Explanation: Let's take the array has 7 columns and 7 rows. Simplifies the answer using Distributive Property. Now break the array rows to make two smaller arrays with the facts 4 and 3. To get the answer, we need to write 7 x 7. By doing smaller arrays, you can write them as (4 + 3) x 7. Multiply each additive by 7. The equation is (4 x 7) + (3 x 7). Simplify and add it to get the final answer. 28 + 21 = 49. Question 6. = 2 × 7 Reply: 14 Explanation: Drawing two Counters. Place seven goals in two scorers. Now add the goals in two counters. The final answer is 7 + 7 = 14. So, 2×7 = 14 is the answer. Question 7. 7 × 8 = Answer: 56 Explanation: Distribution property: The Distribution property determines that multiplying a sum by a number is the same as multiplying each add-on by the number and then adding the products. So, from the given options, c. $7 \times 8 = (7 \times 4) + (7 \times 4) = 28 + 28 = 56$. Question 8. = 4 × 7 Answer: 28 Explanation: First, multiply 2×7 to get the answer for 4×7. Then, double the answer from 2×7 to the answer. So, do 2×7 = 14. Doubles the number 14 to get ×4-double 7 Reply. The double of 14 is 14 + 14 = 28. The answer at 4×7 is 28. Ouestion 9. 7 7 5 — Reply: 35 Explanation: From Commutative Law of Multiplication vou can write 7 x 5 = 5 x 7. So, to find the multiplication of 5 x 7, skip count by 5's until you say 7 numbers. 5, 10, 15, 20, 25, 30, 35. Now, the score of the number is 7. So, the answer for 5 x 7 is 35. Therefore, the answer is for 7 x 5 35. Question 10. 7 × 1 —— Answer: 7 Explanation: Using the Commutative Law of Multiplication, you can write 7 x 1 = 1 x 7. Multiplying any number by 1 is the same number. So, 1 x 7 = 7. Question 11. 6 × 7 — Answer: 42 Explanation: Use doubles to find the answer of 6 x 7. First, multiply 3 x 7 = 21. Then double the value of 3 x 7. 21 + 21 = 42. The answer for 6 x 7 is 42. Question 12. 7 × 4 — Answer: 28 Explanation: Write 7 x 4 as 4 x 7 according to the Commutation Act of Multiplication. Do now multiplication for 4 x 7. You can double 2×7 to get 4×7. Multiply 7 by 2. You'll get 14. Then double the product to get the answer at 4×7. You get 14 +14 = 28. So, you get the final answer as 28. Question 13. 2 × 7 — Answer: 14 Explanation: The given multiplication is 2×7. The answer to any number multiplied by 2 is double of that number. So, the 2×7 can find by doing 7+7. The answer is 7+7 = 14. So, the final answer is 2×7 = 14. Question 14. 10 × 7 — Answer: 70 Explanation: A multiple of 10 is any product that has 10 as one of its factors. So, multiplying any number by 10 is 10's of that particular number. The answer is 70. Question 15. 3 × 7 — Answer: 21 Explanation: Skip count with 3's until you say 7 numbers. Subscribes like 3, 6, 9, 12, 15, 18, 21. The answer for 3 x 7 is 21. Question 16. 7 × 9 — Answer: 63 Explanation: Use the distribution property to find the value of 7 x 9. If we take 7 rows and 9 columns of an array, we can break the array into two smaller arrays with the facts of 9. Now write the 7 x 9 as 7 x (6 + 3). Multiply the facts by the 7. Then you get (7 x 6) + (7 x 3). Therefore, you get the 56 is the correct answer. Question 18.7 × 0 — ____Answer: 0 Explanation: Multiplying any number by 0 is 0. So, the answer for 7 x 0 is 0. Problem-solving Question 19. Julie buys a pair of earrings for \$7. Now she'd like to buy the same earrings for 2 of her friends. How much will she spend for all 3 pairs of earrings? \$_____ \$21 Explanation: the given information, Julie buys pair of earrings for \$7. She also wants to buy 2 more pairs of earrings for her 2 friends. So, a total she should have only 3 pairs of earrings. To know the total amount she's going to spend on earrings, we need to multiply the total number of earrings pairing by a cost to each earring. So, we can do 3 x \$7 = \$21. Julie must spend \$21 to buy 3 pairs of earrings. Question 20. Owen and his family will go camping in 8 weeks. There are 7 days in 1 week. So, to days Answer: 56 days Explanation: Given that Owen and his family will go camping over 8 weeks. There are 7 days in 1 week. So, to calculate the total number of days in 8 weeks, multiply 8 x 7 = 56. There are 56 days in 8 weeks. Multiply by 7 Lesson Check page No 220 Question 1. Find the product. 7 × 8 — Options: a. 54 b. 56 c. 64 d. 66 Answer: b. 56 Explanation: Distribution property: The Distribution property provides that multiplying an amount by a number is the same as multiplying each add-on by the number and then adding the products. So, from the given options, c. 7 × 8 = (7 × 4) + (7 × 4) = 28 + 28 = 56. Question 2. Which product shows the array? Options: a. 14 b. 17 c. 21 d. 24 Answer: c. 21 Explanation: The given array has 7 columns and 3 rows. Simplifies the answer using Distributive Property. Now break the array rows to make two smaller arrays with the facts 1 and 2. To get the answer, we need to write 3 x 7. By doing smaller arrays, you can write them as (1+2) x 7. Multiply each additive by 8. The equation is (1 x 7) + (2 x 7). Simplify and add it to get the final answer. 7 + 14 = 21. Spiral assessment Question 3. What statement is true about the numbers are even. d. Some of the numbers are even. A. Some of the numbers are even. d. Some of the numbe people chose retriever than poodle? Options: a. 31 b. 39 c. 41 d. 49 Answer: b. 39 Explanation: Knowing more people chose retriever as a poodle. So, 65 – 26 = 39. 39 more people chose retriever as a poodle. So, 65 – 26 = 39. 39 more people chose retriever as a poodle. d. 100 Answer: a. 90 Explanation: 94 is between 90 and 100. 94 is closer to 90 than is to 100. 94 is closer to 90 than is to 100. 94 rounded to the nearest ten is 90. Question 6. Jack has 5 craft sticks. He needs 4 times that number for a project. How many craft sticks does Jack need completely? Options: a. 9 b. 16 c. 20 d. 24 Answer: c. 20 Explanation: Jack has 5 craft sticks. sticks. He needs 4 times that number for a project. To find the total number of craft sticks, Jack needs completely is 5 x = 20. 20 craft sticks need Jack. Mid-Chapter Checkpoint Page No 221 Vocabulary Choose best of the box to complete the sentence. Question 1. A ______ of 4 is any product that has 4 as one of its factors. Answer: Commutative Property of Multiplication Question 2. This is an example of the ______. 3 × 8 = (3 × 6) + (3 × 2) This property states that multiplying a sum by a number is the same as multiplying each add-on with the number and then adding the products. Answer: Distribution property of Multiplication Concepts and Skills Write one way to break apart the array. Then find the product. Question 3. Reply: 7 x 5 = 35 Explanation: The provided array has 7 columns and 5 rows. Let's simplify the answer by using Distributive Property. Now break the array rows to make two smaller arrays with the facts 2 and 3. Now do 7 x 5. By doing smaller arrays, you can write them as 7 x (2+ 3). Multiply 7 by 2 and 7 by 3. Write (7 x 2) + (7 x 3). Now add them to get the final answer. 14 + 21 = 35. Question 4. Reply: 9 x 4 = 36 Explanation: The given array has 9 columns and 4 rows. Now do 9 x 4. Using Distributive Property breaks the array rows to make two smaller arrays with the 4 facts 2 and 2. Now add 9 x (2+ 2). Multiply 9 by 2 and 9 by 2. Subscribe (9 x 2) + (9 x 2). Now add them to get the final answer. 18 + 18 = 36. Find the product. Question 5. $3 \times 1 = 1 \times 3$. Multiplying any number by 1 is the same number. So, $1 \times 3 = 3$. Question 6. $5 \times 6 =$ Answer: 30 Explanation: Skip-Score by 5's 6 times. You can write as 5, 10, 15, 20, 25, 30. The answer for 5 x 6 is 30. Question 7. $= 7 \times 7$ Reply: 49 Explanation: Use distribution property, to get the answer. Given 7 x 7. Write the facts for 7. 7 = 4 + 3. Subscribe now 7 x 7 = 7 x (4 + 3). Multiply 7 by 4 and 7 by 3. $(7 \times 4) + (7 \times 3) = 28 + 21 = 49$. Question 8. $2 \times 10 =$ Answer: 20 Explanation: Doubles the 10 to get the answer for $2 \times 10 = 20$. The answer for $2 \times 10 = 20$. Question 9. $2 \times 1 -$ Reply: 2 Explanation: Add 1+1 to get $2 \times 1.1 + 1 = 2$. The answer for $2 \times 1 = 2$. Question 10. $6 \times 6 -$ Answer: $2 \times 10 = 20$. The answer for $2 \times 10 = 20$. Question 9. $2 \times 1 -$ Reply: 2 Explanation: Add 1+1 to get $2 \times 1.1 + 1 = 2$. The answer for $2 \times 1 = 2$. Question 10. $6 \times 6 -$ Answer: $2 \times 10 = 20$. The answer for $2 \times 10 = 20$. 36 Explanation: Use doubles to get from 6×6 . First, multiply $3 \times 6 = 18$. Then double the value of 3×6 . 18 + 18 = 36. The answer for 6×6 is 36. Question 11. 8×7 — Answer: 56 Explanation: Use distribution property to find $8 \times 7 = (4 \times 7) + (4 \times 7) = 28 + 28 = 56$ is the correct answer. Question 12. 6×0 — Answer: 0 Explanation: Multiplying any number by 0 is 0. So, the answer for 10 x 0 is 0. Question 13. 3 × 8 — Answer: 24 Explanation: with 3's 8 times. You can write as 3, 6, 9, 12, 15, 18, 21, 24. The answer for 3 x 8 is 24. Mid-Chapter Checkpoint Page No 222 222 14. Lori saw 6 lightning gusts. They each had 6 legs. How many bones do the lightning bugs have in all? legs Answer: 36 Explanation: Given that Lori saw 6 lightning errors. Each lightning bugs have 6 legs. To find the total number of bones, do 6 x 6 = 36. The lightning bugs have 36 in all. Question 15. Zach walked his dog twice a day, for 7 days. Moira walked her dog three times a day for 5 days. Whose dog has been walked more times? How much more? Type below: _____ Answer: Moira's dog walked more than Zach's dog once. Explanation: Zach walked his dog twice a day, for 7 days. Thus, Zach dog walked 7 x 2 = 14 times in total. Moira walked her dog three times a day for 5 days. Moira dog runs 3 x 5 = 15 days. So, Moira's dog has walked more times than Zach dog. It walked more than Zach's dog once. Question 16. Annette buys 4 boxes of pencils in each box. Jordan buys 3 boxes of pencils in each box. Who buys more pencils? How much more? Type below: Answer: Annette has more pencils than Jordan. He has 2 pencils more than Jordan. Explanation: Annette buys 4 boxes of pencils. Each box has 8 pencils. Jordan buys 3 boxes of pencils in it. Thus, Annette has 4 x 8 = 32 pencils. Jordan buys 3 boxes of pencils in each box. So, he has 3 x 10 = 30 pencils. Annette has 2 pencils more than Jordan. Question 17. Shelly can paint 4 photos in a day. How many photos can she paint in 7 days? photos Reply: 28 Explanation: Shelly can paint 4 photos in a day. In 7 days she can paint 7 x 4 = 28 pictures. Associative Property of Multiplication Page No 227 Write another way to group the factors. Then find the product. Question 1. $(3 \times 2) \times 5$ 3 × (2×5) 30 Answer: 30 Explanation: The use of Associative Property of Multiplication, we may write $(3 \times 2) \times 5 = 3 \times (2 \times 5)$. Find $(3 \times 2) \times 5 = 3 \times (2 \times 5)$. Find $(3 \times 2) \times 5 = 3 \times (2 \times 5)$. The product value is 30. Question 2. $(4 \times 3) \times 5 = 3 \times (2 \times 5)$. Find $(3 \times 2) \times 5 = 3 \times (2 \times 5)$. Find $(3 \times 2) \times 5 = 3 \times (2 \times 5)$. Find $(3 \times 2) \times 5 = 3 \times (2 \times 5)$. The product value is 30. Question 2. $(4 \times 3) \times 5 = 3 \times (2 \times 5)$. Find $(3 \times 2) \times 5 = 3 \times (2 \times 5)$. The product value is 30. Question 2. $(4 \times 3) \times 5 = 3 \times (2 \times 5)$. 2 = $Answer: (4 \times 3) \times 2 = 4 \times (3 \times 2) 24$ Explanation: Use Associative Property of Multiplication to write other group the factors. $(4 \times 3) \times 2 = 4 \times (3 \times 2)$. Now multiply $12 \times 2 = 24$. So, $(4 \times 3) \times 2 = 24$. Question $3 \cdot 2 \times (2 \times 8) = Answer: 2 \times (2 \times 8) = (2 \times 2) \times 8 \cdot 32$ Explanation: With Associative Property of Multiplication, $2 \times (2 \times 8) = (2 \times 2) \times 8$. Now multiply $2 \times 8 = 16$. Then, multiply $16 \times 2 = 32$. So, $2 \times (2 \times 8) = 32$. Question $4 \cdot 9 \times (2 \times 1) = (9 \times 2) \times 1$ 18 Explanation: Using Associative Property of Multiplication, we can write $\times (2 \times 1) = (9 \times 2) \times 1$. Now multiply $2 \times 1 = 2$. Then, multiply x = 18. So, $9 \times (2 \times 1) = 18$. Question 5. $2 \times (3 \times 6) =$ Answer: $2 \times (3 \times 6) = x \cdot 3 \times 6$ 36 Explanation: With the help of Associative Property of Multiplication, we can write $2 \times (3 \times 6) = (2 \times 3) \times 6$. Multiply now $2 \times 3 = 6$. Then, multiply $6 \times 6 = 36$. So, $2 \times (3 \times 6) = 36$. Question $6 \cdot (4 \times 2) \times 5 =$ Answer: $(4 \times 2) \times 5 = 4 \times (2 \times 5) \cdot 40$ Explanation: Use Associative Property of Multiplication, we can write $2 \times (3 \times 6) = (2 \times 3) \times 6$. Multiply now $2 \times 3 = 6$. Then, multiply $6 \times 6 = 36$. So, $2 \times (3 \times 6) = 36$. Question $6 \cdot (4 \times 2) \times 5 =$ Answer: $(4 \times 2) \times 5 = 4 \times (2 \times 5) \cdot 40$ Explanation: Use Associative Property of Multiplication (4 \times 2) \times 5 = Property of Multiplication, to write $(4 \times 2) \times 5 = 4 \times (2 \times 5)$. Now multiply $2 \times 5 = 10$. Then, multiply $4 \times 10 = 40$. So, $(4 \times 2) \times 5 = 40$. Use parentheses and multiplication properties. Then find the product. Question 7. $9 \times 1 \times 5 = 9 \times (1 \times 5) \times 5 = 9 \times (1 \times 5) \times 5 = 9 \times (1 \times 5) \times 5 = 10$. Then, multiply $4 \times 10 = 40$. So, $(4 \times 2) \times 5 = 40$. Use parentheses and multiplication properties. Then find the product. Question 7. $9 \times 1 \times 5 = 9 \times (1 \times 5) \times 5 = 9 \times (1 \times 5) \times 5 = 9 \times (1 \times 5) \times 5 = 10$. $\times 5 = 9 \times (1 \times 5)$. Now multiply $9 \times 1 = 9$. Then, multiply $9 \times 5 = 45$. So, $(9 \times 1) \times 5 = 45$. Ouestion $8 \cdot 3 \times 2 \times 2 \times 3 \times 2 = 3 \times (3 \times 3) \times 2 = 3 \times (3 \times 2)$. Now multiply $9 \times 3 = 9$. Then, multiply $9 \times 2 = 18$. So, $(3 \times 3) \times 2 = 18$. Question $9 \cdot 2 \times 4 \times 3 (2 \times 4) \times 3 = 3 \times (3 \times 2)$. Now multiply $9 \times 3 = 9$. Then, multiply $9 \times 2 = 18$. So, $(3 \times 3) \times 2 = 18$. So, (3×3) Reply: $(2 \times 4) \times 3 = 2 \times (4 \times 3) = 2 \times (4 \times 3) = 2 \times (4 \times 3) = 2 \times (4 \times 3)$. Now multiply $2 \times 4 = 8$. Then, multiply $8 \times 3 = 24$. So, $(2 \times 4) \times 3$ $5 \times (2 \times 3)$. Now multiply $5 \times 2 = 10$. Then, multiply $10 \times 3 = 30$. So, $(5 \times 2) \times 3 = 30$. Question $11 \cdot 7 \times 1 \times 5$ (7×1) $\times 5 = 7 \times (1 \times 5)$ 35 Explanation: Use Associative Property of Multiplication. (7×1) $\times 5 = 7 \times (1 \times 5)$. Now multiply $7 \times 1 = 7$. Then, multiply $7 \times 1 = 7$. Then, multiply $7 \times 5 = 35$. So, $(7 \times 1) \times 5 = 35$. Question $12 \cdot 8 \times 2 \times 3$ ($8 \times 1 \times 5 = 7 \times (1 \times 5)$). Now multiply $5 \times 2 = 10$. Then, multiply $7 \times 5 = 35$. So, $(7 \times 1) \times 5 = 35$. Question $12 \cdot 8 \times 2 \times 3$ ($8 \times 1 \times 5 = 7 \times (1 \times 5)$). Now multiply $5 \times 2 = 10$. Then, multiply $7 \times 5 = 35$. So, $(7 \times 1) \times 5 = 35$. Question $12 \cdot 8 \times 2 \times 3$ ($8 \times 1 \times 5 = 7 \times (1 \times 5)$). Now multiply $7 \times 5 = 35$. So, $(7 \times 1) \times 5 = 35$. Question $12 \cdot 8 \times 2 \times 3$ ($8 \times 1 \times 5 \times 1 \times 5 = 7 \times (1 \times 5)$). Now multiply $7 \times 5 = 35$. So, $(7 \times 1) \times 5 = 35$. Question $12 \cdot 8 \times 2 \times 3$ ($8 \times 1 \times 5 \times 1 \times 5 = 7 \times (1 \times 5)$). The set of the set o 2) × 3 = (2×3) 48 Explanation: Use Associative Property of Multiplication. (8 × 2) × 3 = 8 × (2 × 3). Now multiply 16 × 3 = 48. So, (8 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = (2×3) 48 Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = (2×3) 48 Explanation: Use Associative Property of Multiplication. (8 × 2) × 3 = 8 × (2 × 3). Now multiply 16 × 3 = 48. So, (8 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = (2×3) 48 Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = (2×3) 48 Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. Explanation: Use Associative Property of Multiplication. (7 × 2) × 3 = 48. Question 13. 7 × 2 × 3 (7 × 2) × 3 = 7 × (2 × 3) 48. E) $\times 3 = 7 \times (2 \times 3)$. Multiply now 2 x 3 = 6. Then, multiply 7 x 6 = 42. So, (7 × 2) × 3 = 42. Question 14. 4 × 1 × 3 (4 × 1) × 3 = Answer: 12 Explanation: Use Associative Property of Multiplication. (4 × 1) × 3 = 4 × (1 × 3). Now multiply 4 × 1 = 4. Then, multiply 4 × 3 = 12. So, (4 × 1) × 3 = 12. Question 15. 10 × 2 × 4 (10 × 2) × 4 = 4. Then, multiply 4 × 1 = 4. Then, multiply 4 × 3 = 12. So, (4 × 1) × 3 = 42. Question 15. 10 × 2 × 4 (10 × 2) × 4 = 4. Then, multiply 4 × 1 = 4. Then, multiply 4 × 3 = 12. So, (4 × 1) × 3 = 42. Question 15. 10 × 2 × 4 (10 × 2) × 4 = 4. Then, multiply 4 × 3 = 12. So, (4 × 1) × 3 = 42. Question 14. 4 × 1 × 3 (4 × 1) × 3 = 4. Then, multiply 4 × 1 = 4. Then, multiply 4 × 3 = 12. So, (4 × 1) × 3 = 4. Then, multiply 4 × 3 = 12. Then, multiply 4 × 3 = 12. Then, multiply 4 × 3 = 12. Then, multiply 4 × 3 = 1 Answer: 80 Explanation: Use Associative Property of Multiplication. $(10 \times 2) \times 4 = 80$. Now multiply $2 \times 4 = 80$. Problem-solving question 16. Beth and Mary head to the country fair. Admission costs \$4 Every day. They plan to go for 3 days. How much will the girls pay in all? \$ Answer: \$24 Explanation: From the given information, County fair admission costs \$4 per person for each day. To go for 3 days, it costs, 3 x \$4 = \$12. Beth and Mary head to the country fair. So, 2 members go to the country fair. The total amount is 2 X\$12 = \$24. Question 17. Randy's garden has 3 rows of roots with 3 plants in each row. plants Answer: 36 Explanation: Of the information given, Randy's garden has 3 rows of roots with 3 plants in each row. So, 3 x 3 = 9. To plant 4 times the number of rows of 3 plants, 9 x 4 = 36. 36 plants will have to Next year, he plans to plant 4 times the number of rows of 3 plants. How many plants will he have next year? plant through Randy's garden next year. Associative Property of Multiplication Lesson Check Page No 228 Question 1. There are 2 banks in every car of a train has 5 cars, how many people in everyone can be on a train? Options: a. 4 b. 9 c. 10 d. 20 Answer: d. 20 Explanation: Given that there are 2 banks in every car of a train ride. If a train has a total of 5 cars, the number of banks = 5 x 2 = is 10. From the information given, two people will travel on a train if the train has 5 cars. Question 2. Crystal has 2 CDs in each box. She has 3 boxes on each of her 6 shelves. How many CDs does Crystal have in all? Options: a. 6 b. 12 c. 18 d. 36 Answer: d. 36 Explanation: The crystal has 3 boxes on each of her 6 shelves. So, she has 3 x 6 = 18 boxes with her. Each box has 2 CDs in it. So, 2 x 18 = 36 CDs available at crystal. Spiral assessment Question 3. Find the sum. 4 7 2+ 1 8 6 ---- Options: a. 658 b. 648 c. 558 d. 286 Reply: 30 Explanation: Add those. Add 2+ 6=8. Then add the ten. Regroup hundreds and tens. Add 7 + 8 = 15. Remember to transfer. Add the hundreds to get the sum. The sum is 658. Ouestion 4. Trevor made a photography to show how many minutes each student ficked last week. That's his key. Each = 10 minutes. What do you stand for? Options: a. 2 minutes b. 10 minutes c. 20 minutes d. 25 minutes. So, halftime symbol = 5 minutes. Therefore, = 10 + 10 + 5 = 25 minutes. Question 5. Madison has 142 stickers in her collection. What is 142 rounded to the nearest ten? Options: a. 40 b. 140 c. 150 d. 200 Answer: b. 140 Explanation: The 142 lies between 140 and 150. But the 142 is closer to 140 than it is to 150. So, 142 were rounded out to the 140. Question 6. There are 5 pages of photos. Each page has 6 photos. How many photos are there in everyone? Options: a. 12 b. 20 c. 24 d. 30 Reply: d. 30 Explanation: Given that there are 5 pages of photos. And each page has 6 Total Total = 5 x 6 = 30. Patterns on the Multiplication Table page No 233 Is the product even or odd? Write even or strangely. Question 1. 2 × 7 = even Think: Products with 2 as a factor are even. Answer: Even explanation: Products with 2 as a factor are even. Question 2. 4 × 6 = Answer: even Explanation: The number. The 4 × 6 an even num equally. The answer even is. Question 4. 2 × 3 = Reply: even Explanation: Products with 2 as a factor are even. Question 5. 9 × 9 = Answer: odd explanation: 9 is a foreign number. The product of two odd numbers is an odd number. The answer is strange. Question 6. 5 × 7 = Answer: odd explanation: The numbers end with 1,3, 5, 7, 9 are odd numbers. So, 35 is an odd number. The 5 × 7 an odd number. Question 7. 6 × 3 = _____ Answer: even Explanation: 6 is an odd number. The product of an odd number and an even number are equally. The answer even is. Use the multiplication table. Describes a pattern you see. Question 8. in the column for 5 _____ Reply: The one's digits repeat 0 and 5. Each number is 5 more than the number above it. Explanation: Each number is added by 5. One's figure is repeated by 0 and 5. Question 9. in the row for 10 ______ Reply: Add 10. All the products are even. The one's figure is always 0. Explanation: All the products are even. Also, the one's figure is always 0. Add 10 for each products of 3 doubled. Ouestion 10. in the rows for 3 and 6 Type below: Reply: The products of 6 are the products of 7 doubled. table. The products in the row are all equally. The people figures in the products repeat 0, 4, 8, 2, 6. What row is Carl shadow drive for Answer: The row for 4. Explanation: From the given data, the answer is row 4. Question 12. Jenna says that no row or column contains products with only foreign numbers. Do you Replies: Yes, Either the products are all even, or there is an even and odd number pattern. Explanation: Jenna said correctly. Either the products are all equally, or there is an even and odd number pattern. Patterns on the Multiplication Tables Check Page No 234 Question 1. What has an even product? Options: a. 1 × 9 b. 3 × 3 c. 5 × 7 d. 4 × 9 Answer: d. 4 × 9 Explanation: The product of a foreign number and then weirdly. The answer is 4 × 9. Question 2. What does this pattern describe? 10, 15, 20, 25, 30 Options: a. Even and then weird b. Add 10. C. Sub sub pull 5. D. with 5. Answer: a. Even and then weirdly. The given pattern describe? is the combination of even and add. Spiral Review Question 3. Lexi has 2 cans of tennis balls. There are 3 tennis balls in each can. She buys 2 more cans. How many tennis balls does she have in everyone now? Options: a. 12 b. 9 c. 7 d. 6 Answer: a. 12 Explanation: Lexi has 2 cans of tennis balls. There are 3 tennis balls in each can. So, she has 2 x 3 = 6 balls. She buys 2 more cans. So, again 2 cans with 3 tennis balls = 2 x 3=6. Total = 6 + 6 = 12. 12 tennis balls she's going to have with her. Question 4. Use the picture graph. How many students have green eyes? Options: a. 4 b. 8 c. 12 d. 16 Answer: d. 16 Explanation: Of the given picture, Green eyes have 4 circles. Each circle =4. 4 x 4 = 16. 16 students have green eyes. Question 5. Sasha bought 3 boxes of pencils. If each box has 6 pencils, lf each box has 6 pencils, lf each box has 6 pencils, and buy Sasha in all. Ouestion 6. Find the sum. 2 1 9+7 6 3 ——— Options: a. 992 b. 982 c. 976 d. 972 Answer: b. 982 Explanation: Breaking apart the additions of the given values. Start with the hundreds. Then add each location value. Let's write 219 as 200+10+9 and 763 as 700+60+3. Summarate the above two values. Then you get 900+ 70+ 12. Add the and then add the 10's and 100s. The final answer is 982. Multiply by 8 page No 239 Find the product. Question 1. $8 \times 10 = 80$ Reply: 80 Explanation: $8 \times 10 = 2 \times (4 \times 10)$ Multiply. $4 \times 10 = 2 \times (4 \times 10)$ Multiply. $4 \times 10 = 2 \times 40$ Double the product. $8 \times 10 = 40 + 40 \times 10 = 80$ Question 2. $8 \times 8 = 10$ Answer: 64 Explanation: Factor 8 is an even number. $4 + 48 \times 4 = 32$. 32 doubles are 64. $8 \times 8 = 64$. Question 3. $8 \times 5 = 0$ Answer: 40 Explanation: $8 \times 5 = 2 \times (4 \times 5)$ Multiply. $4 \times 58 \times 5 = 2 \times 20$ Double the product. $8 \times 5 = 20 + 208 \times 5 = 40$ Question 4. $3 \times 8 = 0$ Answer: 24 Explanation: Factor 8 is an even number. $4 + 43 \times 4 = 12$. 12 doubles are 24. $3 \times 8 = 24$. Question 5. $= 4 \times 8$ Reply: 32 Explanation: Factor 8 is an even number. $4 + 44 \times 4 = 16$. 16 doubles are 32. $4 \times 8 = 32$. Question 6. $8 \times 7 = 2 \times (4 \times 7)$ Multiply. $4 \times 7 8 \times 7 = 2 \times 28$ Double the product. $8 \times 7 = 28 + 28 8 \times 7 = 56$. Question 7. $6 \times 8 =$ Answer: 48 Explanation: Factor 8 is an even number. $4 + 4 6 \times 4 = 24$. 24 doubles are 48. $6 \times 8 = 48$. Question 8. _____ = 9×8 Reply: 72 Explanation: Factor 8 is an even number. $4 + 4 9 \times 4 = 36$. 36 doubles are 72. $9 \times 8 = 72$. Question 9.8 × 2 — ____ Answer: 16 Explanation: Using the Commutative Law of Multiplication, 2 x 8 = 8 x 2. Factor 8 is an even 4 + 4 2 x 4 = 8.8. doubles are 16.2 x 8 = 16. Thus, 8 x 2=16. Question 10.6 × 8 — ____ Answer: 48 Explanation: Factor 8 is an even number. 4 + 4 6 x 4 = 24. 24 doubles are 48. 6 x 8 = 48. Question 11.8 × 7 — ____ Answer: 56 Explanation: Using the Commutative Law of Multiplication, 8 x 7 = 7 x 8. Factor 8 is an even number. 4 + 4 7 x 4 = 28. 28 doubles are 56. 7 x 8 = 56. Question 12. 0 × 8 — - ____ Reply: 0 Explanation: Multiplying any number by 0 is 0. So, the answer for 0 x 8 is 0. Question 13. 8 × 5 — _____ Answer: 40 Explanation: $8 \times 5 = (2 \times 4) \times 5$ Use the Associative Property. $8 \times 5 = 2 \times (4 \times 5)$ Multiply. $4 \times 5 \times 5 = 2 \times 20$ Double the product. $8 \times 5 = 20 + 20 \times 5 = 40$. Question 14. $8 \times 8 - 20 \times 5 = 40$. Question 14. $8 \times 8 - 20 \times 5 = 20 \times 20$ Double the product. $8 \times 5 = 20 \times 20 \times 5 = 40$. Question 14. $8 \times 8 - 20 \times 5 = 40$. Question 14. $8 \times 8 - 20 \times 5 = 40$. Question 14. $8 \times 8 - 20 \times 5 = 40$. Question 14. $8 \times 8 - 20 \times 5 = 40$. Question 14. $8 \times 8 - 20 \times 5 = 20 \times 20$ Double the product. $8 \times 5 = 20 \times 20 \times 5 = 40$. Question 14. $8 \times 8 - 20$ even number. $4 + 49 \times 4 = 36$. 36 doubles are 72. $9 \times 8 = 72$. Question 16. $8 \times 3 = 0$ Answer: 24 Explanation: $8 \times 3 = (2 \times 4) \times 3$ Use the Associative Property. $8 \times 3 = 2 \times (4 \times 3)$ Multiply. $4 \times 38 \times 3 = 2 \times 12$ Double the product. $8 \times 3 = 12 + 128 \times 3 = 24$. Question 17. $8 \times 1 = 0$ Answer: 8 Explanation: Multiplying any number by 1 is the same number. So. 1 x 8 = 8. Ouestion 18. 4 × 8 — Answer: 32 Explanation: Factor 8 is an even number. 4 + 4 4 x 4 = 16. 16 doubles are 32. 4 x 8 = 32. Problem-solving Ouestion 19. There are 6 teams in the basketball league. Each team has 8 players. How many players are there in all? players Answer: 48 Explanation: Multiply 6 x 8 to get the total number of players. 6 x 8 = 48 players are in the basketball league. Question 20. Lynn has 4 stacks of quarterbacks does Lynn have in all? ______ quarters Answer: 32 Explanation: Multiply 4 x 8 to find quarters in stacks. Lynn has a total of 4 x 8 = 32 quarters. Question 21. Tomas pack 7 baskets for a fair. He places 8 apples in each basket. How many apples are there in all? ______ apples Answer: 56 Explanation: Multiply 7 x 8 to get the total number of apples. Tomas has 7 x 8 = 56 apples. Question 22. There are 10 pencils in each box. If Jenna buys 8 boxes, how many pencils will she buy? _____ pencils Answer: 80 Explanation: Getting total pencils, if Jenna buys 8 boxes, multiply 10 x 8. Thus, Jenna buys 10 x 8 = 80 pencils. Multiply by 8 Lesson Check page No 240 Question 1. Find the product. 5 × 8 = • Options: a. 30 b. 32 c. 42 d. 40 Answer: d. 40 Explanation: Using Commutative Property of Multiplication, writes 5 x 8 = 8 x 5 8 × 5 = (2 x 4) x 5 Use the Associative Property. 8 × 5 = 2 x (4 x 5) Multiply. 4 × 5 8 × 5 = 2 x (4 x 5) Multiply. 4 × 5 8 × 5 = 2 x 20 Double the product. 8 × 5 = 40 Question 2. There 7 tarantulas in the spider exhibition at the zoo. Each tarantula has 8 legs. How many bones do the 7 tarantulas have in all? Options: a. 15 b. 49 c. 56 d. 63 Answer: c. 56 Explanation: Multiply 7 x 8 to find the 7 tarantulas legs. 7 tarantulas have 7 x 8 = 56 legs. Spiral assessment Question 3. Find the difference. 6 5 2 - 9 ----- Options: a. 99 b. 552 c. 553 d. 653 Answer: c. 553 Explanation: Subdeve those. 2&It:9. so regroup 5 ten 2 children = 4 ten 3 children. Now do 12 - 9 = 3. Then pull off the tens. 4 < 9. Thus, regroup 6 hundred 5 ten = 5 hundred 5 ten. 14 - 9 = 5. Pull off the hundreds and add them to check the answer is 553. Question 4. The school library received an order of 232 new books. What are 232 rounded to the nearest ten? Options: a. 200 b. 230 c. 240 d. 300 Answer: b. 230 Explanation: The 232 lies between 230 and 240. But the 232 are closer to 230 than it is to 240. So, 232 were rounded off to the 230. Question 5. Sam's photography shows that 8 students chose pizza as their favorite lunch. That's key for the chart. Each 🛛 smile = 2 students. How 🕲 should be next to pizza on Sam's chart? Options: a. 2 b. 4 c. 6 d. 8 Reply: b. 4 Explanation: Given 1 smile = 2 students. 2 smiles = 4 students 3 smiles = 6 students 4 smiles needed for Sam for her next pizza on the chart. Question 6. Tashia buys 5 packages of oranges. Each package has 4 oranges. How many oranges in everything does Tashia buy? Options: a. 1 b. 9 c. 20 d. 25 Answer: d. 25 Explanation: To know the total number of oranges, multiply 5 x 5. Tashia buys 5 x 5 = 25 oranges. Multiply by 9 Page No 245 Find the Product. Question 1. 10 × 9 = 90 Answer: 90 Explanation: The ten digit is 1 less than the factor multiplied by 9. So, ten's digit number is 10 - 1 = 9. The sum of the digits in the product is always 9. So, at 10 to 9 ×, the ten digit thinks is 9 and the one's figure is 0. The product is 90. Question 2. $2 \times 9 = 2 \times (3 + 6)$ Multiply each add-on by 2. $2 \times 9 = (2 \times 3) + (2 \times 6)$ Add the products. $2 \times 9 = 6 + 12 2 \times 9 = 18$. Question 3. $9 \times 4 =$ ______ Reply: 18 Explanation: $9 = 3 + 6 2 \times 9 = 2 \times (3 + 6)$ Multiply each add-on by 2. $2 \times 9 = (2 \times 3) + (2 \times 6)$ Add the products. $2 \times 9 = 6 + 12 2 \times 9 = 18$. Question 3. $9 \times 4 =$ ______ Reply: 36 same number. So, $1 \times 9 = 9$. Question 6. $8 \times 9 = 0$ Reply: 72 Explanation: $9 = 3 + 6 \times 9 = 8 \times (3 + 6)$ Multiply each add-on by 8. $8 \times 9 = (8 \times 3) + (8 \times 6)$ Add the products. $8 \times 9 = 72$. Question 7. $9 \times 5 = 0$ Answer: 45 Explanation: $9 = 3 + 6 \times 5 = (3 + 6) \times 5 = (3 \times 5) + (6 \times 5)$ Add the products. $8 \times 9 = 72$. Question 7. $9 \times 5 = 0$ products. $9 \times 5 = 15 + 30$ $9 \times 5 = 45$. Question 8. $6 \times 9 = 3 + 6 \times 9 = 6 \times (3 + 6)$ Multiply each add-on by 6. $6 \times 9 = (6 \times 3) + (6 \times 6)$ Add the products. $6 \times 9 = 54$. Question 9. $9 \times 4 = -8$ Reply: 36 Explanation: $9 = 3 + 69 \times 4 = (3 + 6) \times 4$ Multiply each add-on by 4. $9 \times 4 = (3 \times 4) + (6 \times 6)$ 4) Add the products. $9 \times 4 = 12 + 249 \times 4 = 36$. Question $10.5 \times 9 -$ Reply: 45 Explanation: $9 = 3 + 6 \times 9 = 5 \times (3 + 6)$ Multiply each add-on by $5.5 \times 9 = (5 \times 3) + (5 \times 6)$ Add the products. $5 \times 9 = 45$. Question $11.9 \times 7 -$ Reply: 63 Explanation: $9 = 3 + 69 \times 7 = (3 + 6) \times 7$ Multiply each add-on by $7.9 \times 7 = (3 \times 6) \times 7 =$ 7) + (6 x 7) Add the products. $9 \times 7 = 21 + 42 9 \times 7 = 63$. Question 12. $2 \times 9 = 0$ Reply: 18 Explanation: $9 = 3 + 62 \times 9 = 2 \times (3 + 6)$ Multiply each add-on by 2. $2 \times 9 = 6 + 122 \times 9 = 18$. Question 13. $9 \times 9 = 0$ Answer: 81 Explanation: The ten digit is 1 less than the factor multiplied by 9. So, ten's digit number is 9 - 1 = 8. The sum of the digits in the product is always 9. So add 1 to 8 to get one's digit 1 + 8 = 9. The product is 81. Question 14. 10 × 9 — Answer: 90 Explanation: The ten digit is 1 less than the factor multiplied by 9. So, ten's digit number is 10 - 1 = 9. The sum of the digits in the product is always 9. So, at 10 to 9 ×, the ten digit thinks is 9 and the one's figure is 0. The product is 90. Question 15. $3 \times 9 = 0$ Reply: 27 Explanation: $9 = 3 + 6 \times 9 = 3 \times (3 + 6)$ Multiply each add-on by $3 \cdot 3 \times 9 = (3 \times 3) + (3 \times 6)$ Add the products. $3 \times 9 = 9 + 183 \times 9 = 27$. Question 16. $9 \times 8 -$ Reply: 72 Explanation: $9 = 3 + 6 \times 9 = 8 \times (3 + 6)$ Multiply each add-on by 8. $8 \times 9 = (8 \times 3) + (8 \times 6)$ Add the products. $8 \times 9 = 24 + 488 \times 9 = 72$. Question 17. $6 \times 9 = ...$ Reply: 54 Explanation: $9 = 3 + 6 \times 9 = 6 \times (3 + 6)$ Multiply each add-on by 6. $6 \times 9 = (6 \times 3) + (6 \times 6)$ Add the products. $6 \times 9 = 18 + 366 \times 9 = 54$. Question 18. $9 \times 1 - ...$ Answer: 9 Explanation: Multiplying any number by 1 is the same number. So, 1 x 9 = 9. Problem-solving Question 19. There are 9 positions on the softball team. Three people try out for each position. How many people in all are trying? ______ people Answer: 27 Explanation: To find the total number of people trying to find a position on the softball team multiply 9 x 3. 9 x 3 = 27 people try for a softball team position. Question 20. Carlos bought a book for \$9. Now he'd like to buy 4 other books for the same price. So, to get them all 4 books, he'll have to pay in all for the 4 books? \$ $4 \times \$9 = \36 . Multiply by 9 Lesson Check page No 246 Question 1. Find the product. $7 \times 9 = \blacksquare$ Options: a. 63 b. 56 c. 45 d. 36 Answer: a. 63 Explanation: $9 = 3 + 69 \times 7 = (3 \times 7) + (6 \times 7)$ Add the products. $9 \times 7 = 21 + 429 \times 7 = 63$. Question 2. Clare buys 5 tickets for high school music. Each ticket costs \$9. How much do the tickets cost in all? Options: a. \$36 b. \$40 c. \$45 d. \$52 Reply: c. \$45 Explanation: Multiply 5 by \$9 to get the total number of tickets. Clare buys 5 tickets for 5 x \$9 = \$45. Spiral assessment Question 3. The table shows the hair colour of girls in Kim's class. How many girls have brown hair? Options: a. 1 b. 3 c. 4 d. 6 Answer: d. 6 Explanation: Of the given figure there are 6 bars available in the Number of Girls for Brown. So, the answer is 6. Question 4. Miles picked up 9 shirts from the dry cleaners. It costs \$4 to clean each shirt. How much did Miles spend cleaning all the shirts? Options: a. \$13 b. \$22 c. \$36 d. \$45 Reply: c. \$36 Explanation: Miles spent 9 x\$4 = \$36 to clear all the shirts. Question 5. In a photography, every photo of a baseball equals 5 games won by a team. The row for the Falcons has 7 baseballs. How many games have the Falcons won? Options: a. 40 b. 35 c. 12 d. 7 Answer: a. 63 Explanation: From given data, 1 baseball = 5 games. The row for the Falcons has 7 baseballs. Thus, Falcons won 7 x 5 = 35 games. Question 6. An array has 8 rows with 4 circles in each row. How many circuits are in the array? Options: a. 12 b. 24 c. 32 d. 36 Answer: a. 63 Explanation: 8 x 4 = 32 circles are in the array. Multiplication Page No 251 Resolves. Question 1. Henry has a new album for his baseball charts. He uses pages that hold 6 charts and pages that hold 3 cards. If Henry has 36 charts, how many different ways can be put the charts on his album? Henry can put the charts on his album 5 ways. Answer: 5 ways Explanation: Henry can put the cards in 5 ways. They're 1. (1 x 6 maps pages) x (10 x 3 maps pages) = 6 maps + 30 maps = 36 maps. 2. (2 x 6 charts pages) x (8 x 3 maps pages) = 12 maps + 24 maps = 36 maps. 3. (3 x 6 charts pages) x (6 x 3 maps pages) = 18 maps + 18 maps = 36 maps. 4. (4 x 6 charts pages) x (4 x 3 maps pages) = 24 maps + 12 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps = 36 maps. 4. (4 x 6 charts pages) = 24 maps + 12 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps = 36 maps. 4. (4 x 6 charts pages) = 24 maps + 12 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 4. (4 x 6 charts pages) = 24 maps + 12 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps. 5. (5 x 6 charts pages) x (2 x 3 maps pages) = 30 maps + 6 maps = 36 maps = maps. Question 2. Ms. Hernandez has 17 tomato plants that she wants to plant in rows. She will place 2 plants in some rows and 1 plant in the other. How many different ways she can tomato plants plant? Make a table to resolve. Rows with 2 Plants __8___7___6___5___4___3__2__ Rows with 1 1 of plants should be 17. So, 1. (8 rows x 2 plants) x (1 row x 1 plant) = 16 plants + 7 plant = 17 plants. 2. (7 rows x 2 plants) x (3 rows x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (5 rows x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 7 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 7 plant = 17 plants. 5. (4 rows x 2 plants) x (1 row x 1 plant) = 14 plants. 4. (5 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 14 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 7 plant = 17 plants. 5. (4 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (6 rows x 2 plants) x (1 row x 1 plant) = 10 plants + 3 plant = 17 plants. 3. (7 row plants) x (9 rows x 1plant) = 8 plants + 9 plant = 17 plants. 6. (3 rows x 2 plants) x (11 rows x 1plant) = 6 plants + 11 plant = 17 plants. 7. (2 rows x 2 plants) x (13 rows x 1plant) = 4 plants + 13 plant = 17 plants. 8. (1 rows x 2 plants) x (15 rows x 1plant) = 2 plants + 15 plant = 17 plants. Question 3. Bianca has a total of 25¢. She has some Combination of 25¢. Answer: 4 ways Explanation: 1 Nickel = 5 pence. Bianca may have combinations of nickels and pennies to get 25¢ is 1. 1 Nickel + 20 Pence = 25 Pen 4. 4 Nickels + 5 Pence = 20 Pence + 5 Pence = 25 Pence Explanation: 1. (Shelves with 1 car x 2) + (Racks with 2 cars x 5) = 2 Cars + 10 Cars = 12 Cars 2. (Shelves with 1 car x 4) + (Shelves with 1 car x 6) + (Shelves with 1 car x 6) + (Shelves with 2 cars x 3) = 6 Cars + 6 Cars = 12 Cars 4. (Shelves with 1 car x 8) + (Shelves with 2 cars x 2) = 8 Cars + 4 Cars = 12 Cars 3. (Shelves with 1 car x 6) + (Shelves with 1 car x 6 12 Cars 5. (Shelves with 1 car x 10) + (Shelves with 2 cars x 1) = 10 Cars + 2 Motors = 12 Motors Will therefore display 2 shelves 2 cars as 8 of the shelves each display 1 car. Spiralling Review Question 2. Find the sum. 3 1 7 + 1 5 1 — Options: a. 166 b. 268 c. 468 d. 568 Reply: c. 468 Explanation: Add those. Add 7 +1=8. Then add the ten. Add 1 + 5 = 6. Add the hundreds. Add 3 + 1 = 4. Place the one's, tens and hundreds to get the sum. The sum is 468. Question 3. The school cafeteria has a for 238,238 lunches. What are 238 rounded to the nearest ten? Options: a. 300 b. 240 c. 230 d. 200 Answer: b. 240 Explanation: The 238 lies between 230 and 240. But the 238 is closer to 240 than it is to 230. So, 238 are rounded to the 240. Question 4. Tyler made a photography to show students' favorite colors. That's the key for his chart. Each = 3 votes. If 12 students voted for green, how many should there be in the green row of the chart? Options: a. 3 b. 4 c. 9 d. 12 Answer: b. 4 Explanation: Each circle = 3 votes. If 12 students voted for green, total votes = 12. Subscribe12 = 3 + 3 + 3 + 3. Thus, 4 circles represent 12 votes. Ouestion 5. There are 6 bike racks. How many bikes in every bike racks? Options: a. 11 b. 24 c. 25 d. 30 Answer: d. 30 Explanation: To find the total bikes in the bike rack at school, multiply 5 bikes x 6 bike racks. 5 x 6 = 30 bikes are available in bike racks. Review/Test page No 253 Question 1. Ruiz sorted spools. How many spools thread did Mrs Ruiz have? Draw circles to model the problem. Then resolve. spools Reply: 20 spools Explanation: 4 boxes of spools x 5 spools = 20 spools. Ruiz has 20 spools thread. Question 2. For numbers 2a-2d, select True or False for each multiplication sentence. a. 2 × 8 = 16 i. True ii. False Answer: i. True Explanation: Double 8. 8 + 8 = 16. So, 2 x 8 = 16. Question 2. b. 5 × 8 = 40 i. True ii. False Answer: i. True Explanation: Skip count through 5's 8 times. Subscribes like 5, 10, 15, 20, 25, 30, 35, 40. So, the answer for 5 x 8 is 40. Question 2. c. 6 × 8 = 56 i. True ii. False Answer: ii. False Answer: ii. False Explanation: Use doubles to find the answer of 6 x 8. First, multiply 3 x 8 = 24. Then double the value of 3 x 8. 24 + 24 = 48. The answer for 6 x 8 is 48. So, 6 × 8 = 56 are false. Question 2. d. 8 × 8 = 64 i. True ii. False Answer: i. True Explanation: Factor 8 is an even number. 4 + 4 8 x 4 = 32. 32 doubles are 64. 8 x 8 = 64. Question 3. Bella plans to write in a journal. Some pages will have one journal entry on them, and other pages will have two journal entries on them. If Bella wants to make 10 entries, how many different ways can she write them in her journals = 10 journals entries x 3) = 4 journals entry x 4) + (2 journals entries x 4) = 2 journals entries x 3) = 4 journals entries x 3) = 4 journals entries x 3) = 4 journals entries x 4) = 2 journals entries x 4) = 2 journals entries x 3) = 4 journals entries x 4) = 2 journals entries x 4) = 2 journals entries x 3) = 4 journals entries x 4) = 2 journals entries x 4) = 2 journals entries x 3) = 4 journals entries x 4) = 2 journals e journals = 10 journals. 4. (1 journal entries x 1) = 8 journals + 2 journals = 10 journals. Bella can use 4 ways to write journals. 4. There are 7 days in 1 week. How many days are there in 4 weeks? Ouestion 5. Pie groups to play $3 \times (2 \times 3)$. Enter below: Reply: 18 Explanation: 3 × (2 × 3) = 3 × 6 = 18. Ouestion 6. Dale keeps all his pairs of shoes in his closet. Select the number of shoes Dale could have in his closet. Mark everything that applies. Options: a. 3 b. 4 c. 6 d. 7 e. 8 Answer: b. 4 c. 6 e. 8 Explanation: Pair of shoes have 2 in number. So, the possible ways are always equally. Dale could have 4, 6, 8 in his closet. Question 7. Lisa completed the table to describe the product of a mysterious one-digit factor and each number. Part A Gives all the possible numbers that could be Lisa's mysterious one-digit factor. Enter below: Answer: 0, 2, 4, 6, 8 Reply: Given that the product numbers are even. The product of an even number with another number is equally. So, we need to take the mysterious factor as an even number. Review/Test page No 255 Question 8. Kate drew 7 Question 7. Part B Explains how you know you have chosen all the correct possibilities. Type below: octagons. An octagon has 8 sides. How many sides did Kate draw? sides Answer: 56 Explanation: Kate has 7 octagons. An octagon has 8 sides. Kate draws 8 x 7 = 56 sides. Question 9. José buys 6 bags of flour. Each bag weighs 5 pounds. How much pounds of flour did José buy? pound Answer: 30 pounds Explanation: 6 x 5 = 30. José spends 30 pounds to buy flour. Question 10. Break the array apart to show 8 to 6 × = (4 × 6) + (4 × 6). Answer: Explanation: Break the variety of 4 columns and 6 rows to get the answer. Question 11. Circle the symbol that makes the multiplication sentence come true. 9 × 6 3 × (3 × 9) Reply: &It; Explanation: $9 \times 6 = 54.3 \times 27 = 81.54 \&$ (3 x 9) Ouestion 12. Roberto wants to make \$2.00 using dollars, half dollars and guarters. How many different ways can be make \$2.00? Review/Test page No 256 Question 13. A carpenter builds stools that have 3 legs each. How many bones does the carpenter use to build 5 stools? Use the array to explain how you know your answer is correct. legs Answer: 15 legs Explanation: Each chair has 3 legs. To build 5 stools, 5 x 3 = 15 legs. 15 legs must build 5 stools. Question 14. Etta buys some ribbon and cuts it into 7 pieces that have the same length. Each piece is 9 inches tall. How long was the ribbon etta bought? Thumb Answer: 63 inches Explanation: The length of the ribbon is 7 x 9 inches = 63 inches. Question 15. Antoine and 3 friends split a few pennies evenly among themselves. Each friend separates his pennies into 3 equal stacks with 5 pence in each stack. Write a multiplication sentence showing the total of pennies. Enter below: Reply: 4 x (5 x 3) Explanation: 5 pence in 3 equal stacks = 5 x 3 = 15. 15 stacks shared between 4 friends = 4 x 15 = 4 x (5 x 3). Question 16. Luke makes 4 first aid kits. He wants to put 3 big and 4 small bandages in each kit. How many mortgages does he need for the kits? Show your work. ______ mortgages Explanation: Luke wants to put 3 large and 4 small bandages in each kit. So, total = 3 + 4 = 7 mortgages. He makes 4 first aid kits. So, 4 x 7 mortgages = 28 mortdades. Review/Test pade No 257 Ouestion 17. For numbers 17a-17d, select True or False for each comparison. a. 3 × 7 = 21 i. True ii. False Answer: i. True ii. False Answer: i. True Explanation: Skip count by 3's until you say 7 numbers. 3, 6, 9, 12, 15, 18, 21. So, the answer for 3 x 7 is 21. The answer is true. Question 17. b. 5 × 7 = 28 i. True ii. False Answer: ii. False Explanation: Skip count with 5's until you say 7 numbers. 5, 10, 15, 20, 25, 30, 35. Now, the score of the number is 7. So, the answer for 5 x 7 is 35. The answer is false. Question 17. c. $8 \times 7 = 49$ i. True ii. False Answer: ii. False Explanation: Use Distribution property to $8 \times 7 = (4 + 4) \times 7 = (4 \times 7) + (4 \times 7) = 28 + 28 = 56$ is the correct answer. The answer is false. Question 17. d. $9 \times 7 = 63$ i. True ii. False answer: i. True Explanation: $9 = 3 + 69 \times 7 = (3 \times 7) + (6 \times 7)$ Add the products. $9 \times 7 = (3 \times 7) + (6 \times 7)$ Add the products. $9 \times 7 = 63$. The answer is true. Question 18. Circle the number that makes the multiplication sentence come true. $10 \times = 40$ Answer: 4 Explanation: The value of 10 x4 = 40. So, the answer is 4. Question 19. For numbers 19a–19d, select Yes or No to indicate whether the number sentence has the same value as 8 × of 6. a. 8+ (4 × 2) = \blacksquare i. yes ii. no Answer: ii. No Explanation: 8 x 6 = 48. 8+ (4 × 2) = 8 + 8 = 16. The answer is no. Question 19. b. $(8 \times 4) + (8 \times 2) = 1$, yes ii. No answer: i. yes Explanation: $8 \times 6 = 48$. $(8 \times 4) + (8 \times 2) = 32 + 16 = 48$. The answer is ves. Question 19. c. $(6 \times 4) + (6 \times 2) = 24 + 12 = 36$. The answer is no. Question 19. d. $6 \times (4 + 4) = 1$. i. yes ii. No answer: i. yes Explanation: $8 \times 6 = 48$. $(6 \times 4) + (6 \times 2) = 24 + 12 = 36$. The answer is no. Question 19. d. $6 \times (4 + 4) = 16$. The answer: i. yes Explanation: $8 \times 6 = 48$. $(6 \times 4) + (6 \times 2) = 24 + 12 = 36$. The answer is no. Question 19. d. $6 \times (4 + 4) = 16$. The answer: i. yes Explanation: $8 \times 6 = 48$. $(6 \times 4) + (6 \times 2) = 24 + 12 = 36$. The answer is no. Question 19. d. $6 \times (4 + 4) = 16$. The answer is no. Question 19. d. $6 \times (4 + 4) = 16$. 48. 6 × (4 + 4) = 6 x 8 = 48. The answer is yes. Question 20. Chloe bought 4 movie tickets. Each ticket costs \$6. What was the total cost of the movie tickets? \$_____ Reply: \$24 Explanation: The total cost of the movie tickets = 4 x \$6 = \$24. Question 21. Write a multiplication sentence using the following numbers and symbols. Enter Reply: 6 x (5 x 2) = 60 Explanation: We can write As 6 x (5 x 2) = 60. Review/Test page No 258 Question 22. Louis started a table showing a multiplication pattern. Part A Complete the table. a pattern you see in the products. Type below: below: Answer: 12, 15, 18, 21, 24, 27, 30. Add 3 to the product to get the next below: product. Explanation: Add 3 to the product to get the following product. 9+3 = 12. 12 + 3 = 12. 12 + 3 = 24. 24 + 3 = 27. 27 + 3 = 24. 27 + 3 =Reply: When an even number is multiplied by 3 (a foreign number), the product is even. When a foreign number is multiplied by 3, the product is foreign, so the product × 4 × 8, 4 × 8 = Answer: 32 Explanation: Skip 2 numbers to get the product from 4 multiples. If you skip 2 numbers until you count 8, you can get 32. The answer is 32. Conclusion Find Go Math Grade 3 Answer Key Chapter 4 Multiplication facts for better practice. All the guestions and answers explained with images, graphs for easy understanding. Do all the activities and check your answers. Your students can strengthen their knowledge by practicing all the multiplication concepts easily in the best way using our Go Maths Answer Key for Grade 3 Chapter 4 Multiplication Facts and Strategies. Examples can also include working with the concepts to make your experience better. Quickly get Go Math Grade 3 Answer Key and know the process of solbing each multiplication to grab the knowledge. We support you with our Go Math Grade 3 Answer Key Chapter 4 Multiplication Facts and Strategies Extra Practice PDF every time. Time.

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