I'm not robot

reCAPTCHA

Continue

I'm not robot

reCAPTCHA

Continue

Mystery message bb-47 worksheet

NOTES FROM WMH P E Z G Z HIGH SCHOOL AUTHORS ! is a series of five books designed to provide practice with the skills and concepts taught in today's high school math programs. The series uses many of the same puzzle formats with PRE-ALGEBRA WTH! -P and ALGEBRA WKEf PIZAZZ! both in Creative Publications. We believe that mastering math skills and concepts requires both good teaching and great practice. Our goal is to provide puzzles of activities that make this practice more meaningful and effective. For this purpose, we tried to incorporate three characteristics into these activities: 1. KNOWLEDGE OF THE RESULTS. In puzzles, various devices are used to tell students whether their answers are correct or not. Feedback occurs immediately after the student does each exercise. For example, if a specific response is not in a code or coded list of responses, the student knows that it is incorrect. He or she can then try again or ask for help. Additional feedback and reinforcement arises when the student finds a solution to the puzzle that is appropriate. This direct knowledge of the results benefits students and teachers, who no longer have to spend time confirming the correct answers. 2. MOTIVATING GOAL FOR THE STUDENT. The puzzles are designed so that students will construct a joke or unscrect the answer to the puzzle in the process of checking their answers. Humor has a boost, as students are not rewarded with a punch line until they finish their exercises. While students may dismiss these jokes as stupid and exhale loudly, our experience has been to enjoy jokes and look forward to solving puzzles. Humor has a powerful to solving puzzles. In addition to humor, the variety and novelty of puzzle-solving procedures help capture students' interest. By keeping the coded list of answers short and procedures simple, we tried to minimize the time spent finding answers or performing other puzzle mechanics. 3. CAREFUL SELECTION OF TOPICS AND EXERCISES. Puzzles within each area of the theme are carefully sequenced so that each of them upgrades skills and concepts that were previously covered. The sequence of exercises within each puzzle is designed to guide students in incremental, step-by-step mode toward mastering the skill or concept involved. The primary goal is to develop problem solving capabilities. To solve problems, students need not only rules and strategies, but also a meaningful understanding of basic concepts. Some puzzles in this series are designed specifically to build concepts. Other puzzles, especially those for assessment, also help deepen students' understanding by encouraging view numbers as quantities, not just symbols that need to be manipulated. For puzzles especially crucial for solving problems, we tried to write problems that are interesting and unsuseed. We included additional information in some problems, and we also inked the problem of the type within the sets, so the problems can not be solved mechanically. In addition to these efforts to make puzzles effective, we tried to make them easy to use. The theme for each puzzle is given both at the bottom of the puzzle page and in the Table of Contents on pages iv and v. Each puzzle.is key to a specific topic in recent editions of the leading high school textbooks. Each puzzle requires duplicating only one page, and many of them provide space for student work. Finally, since puzzles are self-empty, they can eliminate the task of correcting tasks. We hope that both you and your students will enjoy using these materials. Steve and Janis Marcy

On the choice of topics for HIGH SCHOOL MATH WrrH PI-I reflects recent reflections on what is important in the updated high school math program. Almost any puzzle can be matched with a specific lesson in recent editions of popular textbooks. After students have received instruction in a topic and done some sample exercises, you can assign a puzzle along with a selection of textbook exercises. Students in middle classes should begin to classify many math problems and exercises into one of three categories: 1. MENTAL MATH. Problems for which one can mentally get the correct answer. 2. ESTIMATE. Problems for which an approximate response is sufficient, obtained mentally. 3. TOOL. Problems that require an correct answer that cannot be obtained mentally. Students will use paper and pencil and/or calcu2ators. Some of the puzzles in this series specifically focus on one of these categories. Several puzzles actually pose problems in all three categories and asks students to make a classification. By the time they reach middle grades, students should generally be allowed to use calculators for problems that require tools (category 3). The most common argument against using calculators is that students will become overly dependent on them. This concern, however, seems to be based primarily on the fear that students will rely on the calculator for PUZZLES problems in categories 1 and 2, those that should be done mentally. To solve problems in category 3, calculators are wonderful tools for computing. Students will also need paper and pencil to capture diagrams, write equations, record scores, etc., so they will need both types of tools. On the other hand, students would not need calculators for problems in categories 1 and 2, problems that call for mental math or evaluation. Skills in these areas are essential not only in everyday life, but also for the use of the calculator itself. The puzzles in this series reflect these three categories and the difference between them. When students use calculators, you may want to write them all the numbers and operations they pierce and their answers. This makes it easier to determine the cause of any error and helps to manage the class. Even when students do mental math or assessment puzzles, write a complete list of answers and, where appropriate, the process used to get answers. Encourage students to write each answer before finding it in the list of responses. Students should complete all exercises even if they discover the answer to a joke or puzzle earlier. One of the advantages of using a puzzle as a task is that you can easily make a transparency page and display exercises without having to re-buy them on the board. Then you can point to the parts of the problem you are discussing. It's often helpful to separate transparency so you can show exercises on part of the screen and write solutions in the remaining area. Other books by Steve and Janis Marcy in Creative Publications Pre-Algebra With Pizzazz! in binder covers most topics in pre-algebra curriculum Algebra with Pizzazz! in binder covers most topics in the first year of algebra curriculum 63s 00 $ 0 and%. L i% cn p 2 00 What sound two porcupines make W h e n They kiss? I.e.-0 EI's. z 2I 3 S =I { R; ! Y This multiplier table contains exactly 54 correct responses. The rest are inaccurate. A shade in each box containing the CORRECT answer. Be sure to use your pen so you can delete it as needed. essage Each row contains two correct and two incorrect statements. , Circle the word above each correct statement. When you're done, read the rounded words and you'll get a message! TOPIC 1: Multiplier Facts - I\X - I a X Q) .w I4 . m X 00 b U A n L-V) z= 50 Q, Z E a 0. \ $= 5a 8x .. E rcd Q r n.-3 E -- eb I n X W rL X m b I m X dw n n m clo *x a 0 5 a,r 5a .cn . E m ~ X m X S 0 X 0 0 n n 0 0 w n 0 X at 0 X at 0 n 6 X b w -n n+n) X-b -n 0 0 c o d-C ABOUT HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A O Creative Publications X X X x b w 6w) C w w V TOPIC 1:Multiplication Facts 1. Where do Martians leave their spaceships? 2. Where cheerios go every day at noon? TO DECODE THE ANSWERS TO THESE QUESTIONS: Find the answer to each exercise in the code. Each time an answer appears, write the letter of that exercise above it. For a period of 2 weeks, the mechanic worked 8 hours a day for 7 days and 5 hours a day for 3 days. How many hours did he work? The mechanic bought six screwdriver for $8 each. He also bought 4 wrenches at $9 each. What was the total cost? TOPIC 1: Multiplying facts A-1 0 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK ABOUT Creative Publications @ 5 00 5 CJ 20 02 Is facts: Why the E1rno9sReport card is everything F O Find the answer to each exercise in the appropriate response set and spot the letter next to it. Write this letter in the box that contains the exercise number. '2 5-z 2l3 I would lo 11 Mrs Shoe made 36 cookies and I shared them equally among her 9 children. How many cookies did each child get? Answers 1-11: @ Class has 13 boys and 15 girls. When you're divided into 4 teams of equal size, how many students are on each team? Answers 12-22: 1O 33 In 42 days Elmo will celebrate his birthday. He'll be 12. How many weeks until his birthday? Answers 23-33: TOPIC 1-b: Division Facts HIGH SCHOOL MATH WITH PIZZAZZ! BOOK ABOUT Creative Publications @ What can you say about flat bike tyres? Find the answer to each exercise in the response set in the exercise framework. Cross the letter above each answer. When you're done, the answer to the question about the title will remain! @ Osgood is having a party. He plans to send out 20 invitations. If invitations are sold in packs of 5, how many should you buy? Osgood decided he needed 24 hot dogs and six bags of chips for the party. If hot dogs come in packs of 8, how many packs should be purchased? @ Osgood decides to serve soda in 12-ounce cans. He thinks he's going to need 36 cans. How many 6 packets of soda should I buy? n b *I* Ln m w X * n =ICb CY) w 0 n c\. -1CY) a w *I* CD n X CD w 0 TOPIC 1-c: Overview: Basic Facts A-I 4 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A About Creative Publications What do you call a popular perfume? Solve each problem and find your answer in the rectangle below. Cross out the box that contains your response. When you're done, write the letters from the remaining boxes into the spaces at the bottom of the page. @ Larry bought seven medium pizzas from Pizza Heaven. A. How many pieces did he get? B. What was the total cost? @ Sherry bought 1 small pizza and 1 medium pizza. A. How many pieces did she get? B. What was the total cost? @ Perry bought 2 small and 3 large pizzas. Pizza Heaven Size Number of Pieces Price @ Mary bought 6 medium and 8 large pizzas. a small $4.5 a. How many chicks did she get? B. What was the total cost? medium 6 $7 @ Barry bought 9 small and 4 medium pizzas. big $8.9 a. How many chicks did he get? B. What was the total cost? A. How many pieces did he get? B. What was the total cost? @ Kerry bought 6 small pizzas for a group of 8 people. A. How many pieces did she get? B. I divided equally, how many pieces will each person get? @ Jerry bought 5 medium and 3 large pizzas for a group of 9 people. A. How many pieces did he get? B. If divided equally, how many pieces will each person get? @ Terry bought four big pizzas for a group of 8 people. A. What was the total cost? B. If the cost is divided equally, how much will each person pay? @ Gary bought 6 small and 6 medium pizzas for a group of 8 people. A. What was the total cost? B. If the cost is divided into parts, how much each person person HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A ABOUT Creative Publications A 45 TOPIC 1-d: Problem Solving: Mixed Applications Why Is It Dangerous to Do Maths and Jungle? Select each box that contains a number that does not belong in this row. Then write the letters from these boxes on the lines)on the right. Multiples from 5 0 5 10 15 18 20 25 30 35 36 Multiples from 2 0 2 4 5 Multiples from 8 0 4 8 16 24 32 40 44 48 50 Multiples from 3 0 3 6 9 Multiples 6 0 6 6 12 15 18 24 30 36 40 42 Multiples from 9 0 9 18 27 6 8 10 11 12 14 12 14 15 36 42 45 54 63 66 F I T W H S O V I Multiples of 7 0 7 14 21 24 28 35 39 42 44 51 11 14 10 Even N you are n b e r with S G O Odd numbers 5 13 17 E T E 0 4 16 I N O U R O 7 18 19 I A TOPIC 1-e : Use of basic facts: Finding multiples 12 2 8 1 15 11 0 L G R H T A 46 SECONDARY SCHOOL ~ A T WI H Th PIZZAZZ! BOOK A about Creative Publications (What happened to Skunk who couldn't swim? For each exercise, a shadow in the factors of a certain number. Then, in Decoder Key, find a letter with the same pattern of shading. Write this letter in the box that contains the exercise number. 1 and 1 factors 28 1 2 1 factors 18 1 3 1 factors 15 1 4 1 factors 49 1 6 1 factors 241 7 - factors 56 8 - factors 30 9 factors 12 10 factors 81 Decoder Key 11 factor 72 - 12 factor 63 When 1s a Lady N o t a Lady? Do each exercise and find your answer in the right answer set. Write the letter of that answer in the box that contains the exercise number. - A blue whale could weigh more than 294,350 Give digits in every place called. @ @ dozens of place thousands' place @ @ ~ O I J~S. a3 - 8 @ 2 hundred' place 1 0 9 0 ten thousand' place 8 0 4 0 0 5 In one year, an elephant can eat 102,845 pounds of hay. Give a digit in each location called. @ one' place @ ten thousands' place @ hundreds' place - ~ -- number of species of beetles is greater than 216,750. Give a digit in each location called. @ @ @ @ thousands place tens' place @ @ thousands of thousands' place ten thousand' write the number in standard form. Write the number in standard form. four hundred and ninety-two thousand, six hundred @ four hundred and ninety thousand, two hundred and sixty-four hundred and nine thousand, two hundred and six hundred and ninety-two thousand, sixty THEMES 2: The value of places for one hundred thousand A-I 8 HIGH SCHOOL MATHS WITH PIZZAZZ! BOOK ABOUT Creative Publications Why are unblocked teeth like ]? Do each exercise and find your answer in the right answer set. Write the letter of the answer in the box that contains the exercise number. The U.S. territory is 3,618,465 square miles. Give the digit in every place nanied. 1 tens' place @ ten thousand' place 0 @) thousands ' place @ @ 3 million' place 0 6 0 1 0 8 0 4 0 5 7 Earth travels around the sun in 31,556,926 seconds. Give a digit in each location called. @ one hundred thousand' place @ hundreds' place @ millions' place @ ten million' place Speed of light is 670,614,120 miles per hour. Give a digit in each location called. @ one' place @ thousands' place @ ten million' place @ @ 600 million' place 0 0 @ I 0 4 @ 2 Write the number in standard form. 0 12,034,050 @ million, two hundred and thirty-four thousand, five hundred and twelve million, thirty-four thousand, fifty-twelve million, three hundred and four thousand, 34,004,005 Write the number in standard form. @ @ @ @ ninety-eight million, seventy thousand, six hundred and ninety million, eight hundred and seven million, seven thousand, six nine hundred and eight million, seven thousand, sixty-nine hundred and eighty million, seven hundred and six thousand Write the number in standard form. @ @ @ @ fifty million, fifty thousand, five hundred and five hundred and fifty million, five thousand, fifty-five hundred five million, five hundred thousand, six hundred high school maths with PIZZAZZ! BOOK ABOUT Creative Publications THEME 3-b: Appendix: Two additions What do you get when ... 1. Cross the rabbit with a lawn sprayer? 14,232 54,820 94,700 1,502 46,840 6,289 39,880 94,700 54,820 12,105 2. Cross the kitten with an xerox machine? 54,820 95,300 50,373 775 39,880 12,105 51,273 50,373 54,820 263,267 3. Cross two turkeys with a coal company? 296 I -1,502 94,700 1,734 14,771 88,472 94,700 60,511 6,289 88,472 1,944 TO DECODE THE ANSWERS TO THESE THREE QUESTIONS: Do each exercise below and find your answer in the code. Each time an answer appears, write the letter of the exercise above it. r! Use the table on the right for the following three questions. @ What is the combined area of the two largest lakes? Great Lakes @ What is the combined area of the five smallest lakes? @ What is the combined area of all five lakes? sq mi sq mi TEMA 3-c: Appendix: Three or more additions to the A-26 E Erie Huron Michigan Ontario Superior Area (square miles) 9,940 23,010 22,400 7,540 31,810 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A About Creative Publications a; - a, 4 8-0 ~a, cn 525 ep a.6 0 5s DO 0E -m 0 g a, * you) 5 x cia, L O gz Pl 5-0 3 L 0 bQ :you) 0 3 k 0 2x .ga, G b Z;; F3 . E h yY A xa, m a, B 55 cd Q) 2 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A ABOUT Creative Publications TOPIC 3-d: Taking Away Did Y e in Hear About... Do each exercise and find your answer in the appropriate response section. Notice the word below the answer. Write this word in the box that contains the letter of the exercise. Answers A-I: Answers J-R: 35,155 GO 3,435 TO 8,634 NEW $728.75 WHEN 37,655 RUN 70,290 GROUND 599 SYSTEM $2,175 TRACKS 548 $6,480 WHEELS 65.151 CARS $37.65 OVER 4,812,982 ALL $86.56 THEIR 1,726 WITH $34.75 ABOUT 6,088 TO $739.75 UNDER 2,778 SUBWAY @ Ms. Twinkle bought the car for $15,000. Five years ago 4,886 4,837,982 UNDER later, it sold the car for $8,350. How much less was the sale price than the

original purchase price? $6,650 SAT 64,551 TRAINS @ Leonardo bought one oil painting for $3,150 and $84.66 CITY 5,578 HIGHER second by $4,675. He later sold both paintings together for $10,000. How much did Leonardo make? 3rd Theme: Subtraction: With Zeros Am28 $31.79 CITY R/IIDDL, ESCHOOL MATH WITH PIZZAZZ! BOOK ABOUT Creative publications @what Can you get when to make a phone call to a bee? Do each exercise and find your answer in the rectangle below. Cross out the box that contains your response. When fi-ish, write letters from the remaining boxes in the spaces at the bottom of the page. I'm 1 Matt ordered a Galaxy Burger and Milky Way Shake. Karen ordered a Moon Burger and a big space drink. @ @ @ Item Calorie Chart How many calories were in Matt's meal? How many calories were in Karen's meal? How many calories were in Mike's meal? You many calories were in Mike's meal? How many calories were in Jennifer's meal? Calories Galaxy Burger Star Burger Astro Fries 725 480 365 290 Saturn Rings Milky Way Shake Space Drink, large space drink, sma,ll 195 430 140 85 Our burgers are meteor PH TH GR AB NA EE WITH 00 692,878 3,388 650 4,913,966 14,850,286 495 525 525505 CA LL LA CO ZY OU BE SI 66,157 64,358 1,350 4,972,966 14,920,286 9,783 507,349 1,280 HIGH SCHOOL MATHS WITH PIZZAZZ! BOOK A O Creative Publications A-29 AND Galaxy Burgers Jennifer ordered Star Burger, Astro Fries and sma,ll Space Drink. Mike ordered a Galaxy Burger, Saturn Rings and Milky Way Shake. @ How many calories were in Jennifer's dish? @ I I TOPIC 3-f: Review: Adding and Subtracting Why Don't Many Barbers Join the Army? Estimate each amount or difference. Circle the letter of a better choice. Write this letter in the box that contains the exercise number. @ about 100 @ o and 2 0 @ about 90 @ about 120 @ about 50 @ about 30 @ about 260 @ about 30 @ about 710 @ about 740 @ about 700 @ about 90 about 400 @ about 1,500 @ about 1,200 @ about 4,400 @ about 4,800 @ about 1,000 @ about 1,300 @ about 13,000 @ about 16,000 @ about 3,000 @ about 1,000 @ about 43,000 @ about 23,000 @ about 26,000 @ about 18,000 @ about 22,000 @ about $14 @ about $17 @ about $10 @ about $12 @ about $29 @ about $32 on March 19. Valley Video owns 1,714 videotapes. Of those, 288 were rented. How many are not rented? 20. Dinner costs $28.35. Tax and tip together add $6.83. How many changes do you need to get from a $50 bill? @ about $12 @ about 1,200 @ about 1,400 TOPIC 3-9: Estimate amount and difference A-30 @ about $15 IVIIDDLE SCHOOL MATH WITH PIZZAZZ! BOOK O creative publications What kind of birds jump out of planes? Solve each problem below and find your solution in the reply column. Write the response letter in each box that contains the number of problems. @ Kent weighs 139 pounds, and his bike weighs 31 kilograms. Jill is £106 and her bike is £28. How much higher is the combined weight of Kent and his bike than the combined weight of Jill and her bike? @ Janet and Andy bowled three games. Janet's grades were 119, 96 and 145. Andy's scores were 127.74 and 88. How much higher was Janet's total score by three games than Andy's total? @ In three weightlifting competition contests, Paul had lifts from £165,290 and £259. The fall had lifts of 216,344, and £243. How much higher was the grand total of Apartments Three. out of Paul's three elevators? @ In his first year on the basketball team, Tim scored 196 points. In his second year, he won 85 points more than he did in his first year. In his third year, he won 33 points less than in his sophomore year. How many points did Tim score in his third year? (HINP First find out how many points he won the second year.) @ @ In his first year on the football team, Bill chased with the ball 76 times for a total of 314 yards. In his sophomore year, his total was 68 fewer yards than his first year. In his third year, it was 127 yards more than the second year. How many yards did Bill rush in his third year? Amy's training to run a marathon. During five workouts last week, she ran distances of 18 miles, 15 miles, 12 miles, 17 miles and 20 miles. How much greater is the combined distance from her five workouts than the marathon distance of 26 miles? @ Sue has chosen some new ski equipment to buy. Skis cost $296, bars $35, and boots $180. However, one store offers a package price of $375 for all three. How much money will Sue save by purchasing a package deal? @ 45 miles S 248 0 59 pounds @ $136 @ 36 pounds @ 91 @ 373 yards @ 237 @89 pounds @ 56 miles @ $128 @ 71 @) 353 feet HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A ABOUT Creative Publications A-31 TOPIC 3-h: Troubleshooting: Mixed Apps Why Does the Library No Longer Add Fairy Tales? For each exercise, write the missing number blank. Then select an illustrated property. CIRCLE the letter in the corresponding column next to the sentence. At the bottom of the page, locate the box with the number you wrote in blank. Write the letter you circled in this box. commutative associative identity of zero asset assets THEME 4:Basic properties of multiplication of A-32 HIGH SCHOOL MATHEMATICS WITH PIZZAZZ! BOOK A ABOUT Creative Publication What is the title of this image? DECODE THE TITLE OF THIS IMAGE: These equations illustrate distributive correctness. For each equation, fill in the missing number. Then find your answer in the coded title. Each time an answer appears, write the letter of the exercise above it. I. Use mental math to find the product.
Below each exercise, show the order in which you have been multiplying. The first exercise is done as an example. II. Use mental mathematics to find a product. Under each exercise, show how the distributive property can be used for mental multiplying. The first exercise is done as an example. TOPIC 4-c: Mental Math: Using basic properties of A-34 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A ABOUT Creative Publications 0 0 0 0 0 0 o O*! CV 00 CV 0 , 0 0 o> 0 0 0 0 8 o o n 0 Om O n 0 o> d-0 0 o 2 0 CV d-0 8 o o 00 Y F O n O F T-00 00 00 @@ . . 2 0 0 O m 0 0 0 , 0 0 0 . o g % %@ 0 0 0 0 , . . a 0 0 L 2 q 0 .. 0 0 0 0 0 m 0 0 0 0 0 0 Q C q g- V x X 0 0 ? b$4 3% v , . C L L maa a 3s fa 0 - . 5 0 0 pz c, $$? 0 0 d 0 m o x = ! , 0 - x 0 0 q g 0 0 F 00 v-0 0 0 N 2 m x o, 0 00 m hc 0 0 0 0 0 0 m 0, 0 g CV q-v q 0 0 F x X m 0 X 0 CV X0 0 0 0 0 0 0 0 0 0 *1 g o yx X 0 with 0 , 0 Z $a to as8 . with 0 0 0 , 0 0 % g e b q - 0 0 0 0 0 0 Om 0 m .. 0 a cSl,% 0 sNm N . 2 m g 0 0 0 0 0 0 m d9 n $ @@ $ @@ $ @ 0 0 00 00 00 00 .. v, 0 z o 0 8 x O o m 00 0 0 0 0 0 0 x % ' O a v , a 5.-v, 0 0 0 , .. o*x o m 8 g u3X oo o gO lmX , X x o gP 0 0 0 b pz 0 SF3 . E a x E o q =! ] $0 0?'00 , $ @@* d -d - =fq m o ~0 00 0 0 0~g 8 g, q~ m rocks 0 0 0 T 0 X 0 b g X 0 e b 7 o CV. 0 x N X q X o x o o n o 0 Y- HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A about Creative Publications T 0 0 0 - 0 ~ o qo> x 0 d 7 x - 0 rn Am35 o * o d x 0 0 m - I* 00 0 X * o 0 m x 0 m CO 0 0 0 0 X P 0 x g o m0 m x m TEMA 4:d: Mental mathematics: Special products ~ a6350 5~0 m, 34.G CV F Ki- TOPIC 4:Product Assessment A-36 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A O Creative Publications Q Mysteries of Love a Until each exercise below and find your answer in the code above that set of exercises. Each time an answer appears, write the letter of the exercise above it. You're going to like that! What did the boy's candle say to the girl with the candle? @ @ There are 12 inches in the foot and 3 feet in the yard. How @ There are 16 ounces in a pint, 2 pints on the block, and 4 many inches are in 8 feet? neighborhood in a gallon. How many ounces is in the gallon? Do each exercise in the top block and find your answer in the bottom block. Move the word from the top box to the appropriate box below. Keep working and you'll get useful information. (9 x 9) x (15 - 8) (100-92) ~ (6 x 8) (49 x 6) - (37 x 5) - - 00 $0 %h %i E What is the title of this image? Do each exercise below and find your answer in the coded title. Each time an answer appears, write the letter of the exercise above it. C O D E D T I T L E : -------- ET. = 5. 3 in Y 9, A I G 2. n 9 4, @ 9. @ If a computer printer can print 590 rows per minute, how many lines can a printer print in 5 minutes? @ The bell in the middle of the orchard. At this rate, how many words can Pat type in half an hour? What kind of car makes a line in the middle of the road disappear? Solve each problem and find your answer at the bottom of the page. Cross above each correct answer. When you're done, the answer to the cover question will remain -something the car you know! TOPIC 4-9: Troubleshooting: Mixed A-40 HIGH SCHOOL MATH APPS WITH PIZZAZZ! BOOK ABOUT CREATIVE PUBLICATIONS DAFF ITION DECODER 1. Prize dog: 36,028 35,178 12,336 44,716 15,720 3,504 35,178 4,808 3,564 44,574 2. Mudpie: 47,800 3,564 47,800 3. Choose for climbers: DECODE THESE THREE DAFFYNITIONS: Do each exercise below and find your answer in the code. Each time an answer appears, write the letter of the exercise above it. @ Rock band made a concert tour 13 @ Tickets for the show cost $8 for adults and $5 for children. If 496 adult tickets and 168 children's tickets were sold, how much was spent on tickets in total? Cities. They traveled an average of 1,970 miles a week for six weeks. How far did they travel? Answer: HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A O Creative Publications answer: $Am41 TOPIC 4-h: Multiplication with 1-digit factor: Bigger products you've heard about... - ~ - - - - Do every exercise and find your answer in the appropriate response column. Notice the word below the answer. Within this word in the box that contains the letter of the exercise. @ Answers A-H: 2,749 x 8 @ 5,668 x 6 @ 9,073 x 4 Answers 1-0: - - 238,190 SOME 8,386 DOING 8,386 DOING 1-0 1-0127,688 WHEN 488,457 FINALLY 34,008 ACTORS 582,082 WENT 62,262 DOWN 77,450 A 697,082 048 ROCKS 194,628 PART 52,395 FELL 25,910 TO PLAY 113,688 AND 8,696 IN 21,992 38.192 AT 1253,190 36,292 MWD 680,048 STAIRS 54,195 WANTED @ Sound travels at about 1,087 meters per second when the temperature is 32OF. At this rate, how far does the sound travel in eight seconds? Legs @ Space satellite made 3 orbits around the Earth in 5 hours. The satellite was traveling at an average speed of 15,490 miles per hour. How far did the travel? Miles @ A new car delivery truck weighs 9,350 pounds when empty. If the truck is loaded with 7 cars that each weigh 2,780 pounds, what is the total weight of the loaded trucks? TOPIC 4-h: Multiply by 1-digit factor: Larger pounds products 563,082 GOT 79,150 t-tIS 449,457 THEM 28,810 CAST 184,928 FRIENDS 188,510 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK O creative publications Why did a cow swim 4 creative publications Why did a cow Do each exercise and find your answer to the right one. Write the letter of the answer in the box that contains the exercise number. If the answer has @ , nuance in the box instead of writing a letter in it. @ Over the last 30 days, Bill has run 185 laps around the school run. If the track is 400 yards long, how long did Bill run? HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A O Creative Publications @ Judy swam 16 pool lengths @ 34,000m working backstroke. She then swam 32 lengths using freestyle. If the pool is 50 meters long, how long did Judy swim? A-43 @ 2,400 @ 749000 TOPIC 4:Multiply by multiples of 10,100 and 1,000 animal cracks Do each exercise below and find your answer in code for that set of exercises. Each time an answer appears, write the letter of the answer above it. ~ ~ ~ ~~4,816 4,524 4,292 4,816 5,913 1,624 3,283 4,292 972 9724,082 4,048 6,110 1,343 5,913 4,816 - - - - 4,005 3,150 3 2,520 3,422 1,206 3,612 3,915 3,612 2,888 7,2481 3,705 2,891 4,005 4,005 @ 84 x(93 - 50) @ The school purchased 45 band uniforms and 18 musical instruments. If the uniforms cost $89 each, what was the total cost of the uniforms? What's going on with the old trucks? Do each exercise below. Draw a straight line that connects the square with the number and letter. Write the letter in the appropriate numeric box at the bottom of the page. HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A ABOUT Creative Publications A-45 THEME 4-j: Multiplication with double-digit book factor NEVER WRITTEN The Great Diamond Heist for 8,350 50,991 36 100848 2,223 3,666 13,950 6,238 14,550 23,199 37,199926 23,352 Cunning Rifle Shooting by 14,550 7,154 28,368 10,333 3,856 28,36837,926 37,248 3,666 5,376 6,228 31,434 ARE ABOVE THE TITLES OF TWO BOOKS NEVER WRITTEN. DECODE THE NAMES OF YOUR AUTHORS: Do each exercise and find your answer in the code. Each time an answer appears, write the letter of the exercise above it. @ The television show was produced for 3 @ Bizarre High School bought 15 computers and 6 printers. If each computer cost $790 and each printer $450, what was the total cost of the new equipment? Years. Every year, 26 episodes were filmed. Each episode lasted 47 minutes. How long would it take to watch all the episodes of that TV show? min TEMA 4-j: Multiplies by double-digit factor $A-46 M1DDL. E SCHOOL MATH WITH PIZZAZZ! BOOK ABOUT Creative Publications 0 Hidden Message nu i5 o $cn p2 CT 0 0 Er 5-z 2l 3.e D b-l Do each exercise and find your answers in the rectangle below. Correct answers are led from left to right. Shade in boxes containing every correct answer. When you're done, there'll be 28 boxes that aren't shaded. Write letters from these 28 boxes into spaces at the bottom of the page. @ 7,354 x 69 @ 9,007 x 53 @ 60x60 ~24 @ The Parliament Building in Victoria, British Columbia, is lit using 3,270 bulbs. If each bulb is 75 watts, how much electricity is needed? watts @ (lOOxl00)-(99x99) @ Motion image at normal speed captures 24 images per second. How many pictures in a 90-minute movie? (1 min = 60 sec) images How 0 about Clocks communicate? Do each exercise below. Find your answer in the reply column and notice the letter next to it. Look for this letter in a string of letters at the bottom of the page. When you're done, write the remaining letters in the rectangle at the bottom of the page. 7,004 x 704 52x51 x50 The image on the computer monitor consists of many small dots of light. A screen with a diagonal measure of 12 inches can have 200 rows of dots with 320 dots in each row. How many dots is this? 0 8 letter K often means 8 Kilo, which means 1,000. In computational terms, however, K stands at 1,024. If your computer has 256K of memory, there is room for 256 x 1,024 bytes of information. How many bytes is this? W N O S T E R D I 5 Z G C M U K S T O P A B D E L N M V V H PUZZLE ANSWER: THEME 4-k: Multiplies by 3-digit factor A-48 HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A About Creative Publications How did Captain Hook get hurt? Do each exercise and find your answer in a set of answers to your right. Write the letter of the exercise in the box containing the number of replies. I write by exponent. @3 @4 ~3 ~3 x 3 0 7 ~7 x 7 x 4 ~4 ~4 10x10x10x10 @9x9 @) @ 93 @ 104 and @ 34 @ 105 @ J 73 @ 47 / @ 46 @ 45 @ 9' @ 37 @8 @ 729 II l 4x4x4x4x4x4x4 II. Write product. @ 4' @) 23 0 o 4 63 @) 56 @ g3 / @ F 0 0 0 04,096 ! a 3 2 ll @ 49 @10,000 l 0 @ 25 1 2 ~ @ 84 @ 107 1 1 @ 125 @ 14.725 @ 15,625 / 0 1 4 4 @ 1,000,000 1 j @) 216 @ 10,000,000 lll. Write as power 10. IV. Solve the equation. HIGH SCHOOL MATH WITH PIZZAZZ! BOOK A about Creative Publications A-49 THEME 4-1: Exponents en Do stores sell most of their tanning oil? Decide whether you would choose mental math, assessment or tool (paper and pencil or calculator) to solve each problem. CIRCLE the letter in the corresponding column next to the problem. Then solve the problem. Filled the answer at the bottom of the page and write the letter you circled below it.