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Similar triangle word problems

Problem 1: The lengths of the three sides of the ABC triangle are 6 cm, 4 cm and 9 cm. Triangle PQR bc ads are congruent. One of the lengths of the sides of the PQR triangle is 35 cm. What is the largest possible perimeter for PQRSolution triangle: Based on the information given, we will draw an approximate diagram. $\Delta PQR \sim \Delta ABC$ $PQ/AB = QR/BC = PR/AC = \Delta PQR/\Delta BC$ Let $QR = 35$ The corresponding sides must be QR and BC. Δ PERIMETER $PQR / \Delta ABC$ perimeter is $QR/BC = 35/4$ POR Triangle Perimeter $(35/4) \cdot 19 = 665/4 = 166.25$ So, PQR triangle perimeter is 166.25 cm2. Problem 2 .D anced the figure below, the sides DE and BC are parallel and (AD/B) = 3/5, calculate the value of (i) triangle area ADE/are triangle ABC(ii) BCED trapeze area/ABC Solution triangle area:In ABC Triangle, the sides DE and BC are parallel ADE Δ Zone/ ABC Δ Zone = AD2/AB2 = (3k)2/(8k)2 = 9/64 (ii) ADE Δ area = 9 k ADE Δ area = 64 k BCDE Trapeze Zone ΔABC area = ΔADE area = 64k - 9k = 55k BCDE/ABC Δ Area = 55 k/64 k = 55/64Problem 3:The government plans to develop a new industrial area in an unused portion of land in a city. The shaded part of the map shown below indicates the area of the new industrial zone. Find the area of the new industrial zone. Solution: Considering the AD and BC lines, the angles $\angle AEB = \angle DEC$ (vertically opposite angles) $\angle EAB = \angle EDC$ (alternative angles) Using the AA $\Delta EAB \sim \Delta EDC$ (AB/DC) = (EF/EG) EF = (AB) / (DC) x EG = (3/1) x 1.1 4 = 4.2 km Area of the new industrial zone = Δ AGRIE area = AB $\cdot$ AB $\cdot$ EF = (1/2) $\cdot$ 3 $\cdot$ 4.2 = 6.3 km2So, the area of the new industrial zone is 6.3 km2 Apart from the above things, If you need other things in math, please use our custom google search here. If you have any comments on our mathematical content, please send v4formath@gmail.comWe always appreciate your comments. You can also visit the following web pages on different things in mathematics. WORD PROBLEMSHCF and LCM word problems, Problems over simple equations Word problems on linear equations Word problems on quadratic equationsAlgebra motAlgebra problems on trainsAre and perimeter word problems Word problems On direct variation and the reverse variation Word problems on unit price problemsWord on unit rate Word problems on rate comparisonConvert the word problems of customary units Convert metric units words problemsWord problems on simple interest problemsWord on compound problems on types of angles Complementary and complementary word problemsDouble made words problemsTrigonometry word problemsPercentage word problems Profit and loss loss problems Markup and markdown word problems Decimals Word problems Word problems Over fractions Word problems on mixed fractionsA stage equation word problemsRatio inequality and word problems of proportionTime speech problems and problems work word problems Word problems on venn sets and diagrams Word problems on agesPythagor word problems of eanPercent of a number of word problemsWord on constant speedWord problems on the average speed Word problems on the sum of the angles of a triangle is 180 degreeOTHER TOPICS Profit and loss shortensPercentage shortcutsTime table shortcutsTimesTimesTime, shortcuts speed and distanceRatio and shortcuts of proportionDomain and range of rational functionsDomain and range of rational functions with holesGraphing rational functionsGraphing rational functions with repeated decimal holesconvert in fractionsDtroidecimal representation of rational numbersWout using long divisionL.C.M method for solving time and work problemsTransmit word problems in word problems in algebraic expressionsRemainder when 2 power 256 is divided by 17Remainder when 17 power 23 is divided by 16Sum of the three digits divisible by 6Um of the three numbers divisible by 7Sum of the three three-digit numbers divisible by 8Sum of the three three-digit numbers formed using 1, 3, 4Sum of the three four-digi numbers formed with non-zero numbersSum of the three four-digit numbers trained using 0 , 1, 1, 2, 3Sum of the three four-digit numbers trained using 1, 2, 5, 6 copyrights onlinemath4all.com SBI! By Allen Ma, Amber Kuang When two triangles are similar, it means that their sides are proportional. The following word problems require you to use the properties of similar triangles and a little algebra to find solutions. Similar triangles are only different in size. The corresponding angles always have the same measurement. Practice Questions The lengths of the sides of a triangle are 16, 23 and 31. If the perimeter of a similar triangle is 280, find the length of the longest side of that triangle. In RST triangle, W is a point on and Y is a point on so that If WS '5', RW's '7', 'YS' x, and TY's 'x' 3, solve for x. Answers and explanations 124 If two triangles are similar, their sides are proportional. Suppose you call the original A triangle and the new B triangle. The proportion would be as follows: 3 A line that crosses both sides of a triangle and is parallel to the third side of the triangle creates two similar triangles. If two triangles are similar, their sides are proportional, and the on their sides are also in proportion: Triangles similar word problems - Display top 8 worksheets found for this concept. Some of the worksheets for this concept are Answering each question and rounding your answer to the nearest, Solving proportion word problems involving similar numbers, Solving similar triangle word problems, Unit 1 grade 10 applied applied triangles, similar triangle applications, date period similar triangles, Mfm2p unit 1 similar triangles, similar triangles. Have you found a worksheet you're looking for? To download/print, click on the pop-out icon or print icon on the worksheet to print or download. The worksheet will open in a new window. You can download or print using the browser's document reader options. Similar triangle word problems - View the 8 best worksheets found for this concept. 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