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Solving inequalities worksheet algebra 2

Problem 1 : A girl is on the beach with her father. Go to a swimmer drowning. She yells at her father who is 50 yards west of her. His father is 10 yards closer to a boat than the girl. If your father uses the boat to reach the swimmer, he has to travel a distance 126 yards from the boat. At the same time, the girl sees a man riding a water boat that is 98 yards from the boat. The man on the water boat is due to the swimmer's east. How far should man travel to rescue the swimmer? Solution : Let A be the place where your father is standing Let C be the place where a girl is standing Let B be the place where the water boat is Let E be the place where the swimmer is BC x m AB (x - 10) m When considering triangles Δ to ABC, Δ DBE \angle ABC - \angle DBE (vertically opposite angles) \angle BAC \angle BDE (alternative angles) by using the AA Δ ABC - Δ DBE (AB/DB) - (BC/BE) a (AC/DE) (AB/DB) (BC/BE) (BC/BE) similarity criterion (x - 1 - 1 - 10)/98 $\hat{=}$ x/126 126 (x - 10) at 98 x 126 x - 1260 to 98 x 126 x - 98 x a 1260 28 x a 1260/28 x a 45 BC to 45 m Also , (BC/BE) $\hat{=}$ (AC/DE) DE (AC x BE)/BC $\hat{=}$ (50 x 126)/45 to 6300/45 to 140 m Man has to travel 140 m to rescue the swimmer. Problem 2 : P Q are points on the AB and AC sides respectively, of the ABC triangle. If ap is 3 cm, PB to 6 cm, AQ to 5 cm and QC to 10 cm, show that the BC is 3 PQ. Solution : AP/PB - AQ/QC 3/9 to 5/15 1/3 to 1/3 In APQ triangles, and ABC obtain (AP/AB) $\hat{=}$ (AQ/AC) \angle A - \angle A by using the SAS Δ APQ criterion ? Δ ABC (AP/AB) $\hat{=}$ (Q/AC) $\hat{=}$ (PQ/BC) (AP/PB) $\hat{=}$ (PQ/BC) PQ/BC to 3/9PQ/BC to 1/3 3PQ - BC - 3PQ Apart from the things listed above, if you need other things in math, please use our custom Google search here. If you have any comments about our math content, please email us : v4formath@gmail.com We always appreciate your feedback. You can also visit the following websites about different things in mathematics. WORD PROBLEMSHCF and LCM Word ProblemsWith word problems in simple equations Word problems in linear equations Word problems in quadratic equations Word problemsAlphas problems in trainsHedral word problems Word problems Direct drafting problems and reverse variation Word problems in word problems rate Unit in unit rate Word issues compared to ratesConvert common units word word problems Conversion of metric units word problemsReat problems writing in simple interestsDes problems of interest in types of complementary angles and angled word Word problemsAll problems of the wordRetonate word problems Loss and cheeky word brand and word problems reduction Decimal word problems Word problems In fractions Mixed mixed word problems equation step Word problemsScency of wordsScirysciencesratial and proportion problems problemsMeathing of words Problems in sets and venina diagramsCency problems in the agesSguis of the word problems Derogation from a numerical word Word Problems SpeedWord problems Half Word problems in sum of the angles of a triangle is 180 degreesOTHER TOPICS Direct access to profit and lossPercentages times speed and distance shortcutsMake and provide inputsDomain and range of rational functionsDomain and range of rational functions with holesGravation Rational functionsGraph rational functionsRegating decimals with holesConvert decimal repeaters into fractionsResolved rational numbersFiber the square root using the longL.C.M splitting method to solve time and work problemsReduction of the word in Algebraic ExpressionsReor area when 2 power 256 is divided by 17Remainder when 17 power 23 is divided by 16Sum of three-digit numbers divisible by 6Sum of the three digit numbers divisible by 7Sum of the numbers of three digits divisible by 8Sum of the three-digit numbers formed using 1, 3, 4Sum of the three four-digit numbers formed with non-zero digitsSum of the three four-digit numbers formed using 0, 1, 2, 3Sum of the three four-digit numbers formed using 1, 2, 5, 6 copyrights onlinemath4all.com SBI! Similar Triangle Word Problems: Displays the 8 main worksheets found for this concept. Some of the worksheets for this concept are Answer each question and round your answer to the nearest one, Solve problems of proportion words involving similar figures, Solve similar triangle word problems, Unit 1 grade 10 applied similar triangles, Similar triangle applications, Similar triangles date period, Mfm2p unit 1 similar triangles, Similar triangles: Did you find the worksheet you're looking for? To download/print, click the pop-up icon or print icon in the print or download worksheet. The worksheet will open in a new window. You can download or print using the browser's document reader options. Problem 1 : The lengths of the three sides of the ABC triangle are 6 cm, 4 cm and 9 cm. Triangle PQR ad BC are congruent. One of the lengths of the sides of the PQR triangle is 35 cm. What is the largest possible perimeter for the PQRSolution triangle :D tho the given information we will draw a rough diagram. Δ PQR - Δ ABC PQ/AB - QR/BC - PR/AC - Δ PQR Perimeter / Δ BC Leave QR 35 The corresponding sides must be QR and BC. The perimeter of Δ PQR/ Δ perimeter is perimeter of the PQR triangle (35/4) \cdot 19 x 665/4 to 166.25So, the perimeter of the PQR triangle is 166.25 cm2. Problem 2 :In the figure below, the DE and BC sides are parallel and (AD/DB) to 3/5, calculate the ADE/are triangle area value of the TRIANGLE ABC(ii) BCED trapezoid area/ABC Triangle Area Solution :In :In ABC, the DE and BC sides are parallel Δ ADE Zone/ Δ ABC Zone - AD2/AB2 a (3k)2/(8k)2 to 9/64 (ii) Δ ADE at 9 k ADE Δ surface at 64 k BCDE trapezoid surface - BCDE trapezoid area - Δ ADE area at 9 k ADE Δ surface at 64 k Area of BCDE trapezium - BCDE trapezium area - Δ ADE area - 9 k surface of Δ ADE at 64 k BCDE trapezoid area - BCDE trapezoid area - Δ ABC - ADE Δ area at 64 k - 9 k to 55 k BCDE trapezoid zone/ABC Δ area at 55 k/64 k at 55/64Problem 3 :The government plans to develop a new industrial zone 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 area. Solution :When considering THE AD and BC lines, angles \angle AEB \angle DEC (vertically opposite angles) \angle EAB - \angle EDC (alternative angles) by using the AA Δ EAB - Δ EDC (AB/DC) to EF (AB/DC) x EG a EG (3/1) x EG x EG x EG a x EG (3/1 x) x EG (1.4 to 4.2 km New Industrial Zone - EAB Δ Zone (1/2) \cdot AB \cdot EF (1/2) \cdot 3 \cdot 4.2 to 6.3 km2So, the area of new industrial area is 6.3 km2 Apart from the things indicated above, if you need other things in math, please use our custom Google search here. If you have any comments about our math content, please email us : v4formath@gmail.com We always appreciate your feedback. You can also visit the following websites about different things in mathematics. 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For help, see Similar Triangles and Other Shapes. \angle ABC corresponds to \angle DEF \angle BCA corresponds to \angle EFD \angle CAB corresponds to \angle FDE \angle DE 110o \angle LMK to 25o \angle MKL at 45o and 6.5 x to 13 x 20o 2.5 z to 6.67 ----- Note: The information below this point will not be sent to your printer ----- a geometry worksheet - By HelpingWithMath.com The various resources listed below are aligned with the same standard, (8GO4) taken from the CCSM (Common Basic Standards for Mathematics) as the Geometry Worksheet shown above. Understand that a two-dimensional figure is similar to another if the second figure can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that shows the similarity between them. Example/Orientation Similarity, Congruence and Transformations Worksheet Shapes and Figures Similarity, Consistency, and Transformations to the list above, the following resources are aligned with the related standards in Common Core For Mathematics that together support the following learning outcome: Understanding consistency and similarity through physical models, transparencies, or geometry geometry software software

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