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indirect measurement is a method of using proportions to find an unknown length or distance in similar figures two common ways to achieve indirect measurement involve 1 using a mirror on the ground and 2 using shadow lengths and find an object s height indirect measurement write the correct answer 1 use similar triangles to find the height of the building h 72 m 2 use similar triangles to find the height of the taller tree h 25 m 3 a lamppost casts a shadow that is 35 yards long a 3 foot tall mailbox casts a shadow that is 5 yards long how tall is the lamppost 5 then use the same process to find the width chris should draw drawing width scale factor actual basketball court width drawing width 10 40 feet drawing width 40 divide 10 drawing width 4 inches the answer is that chris should represent the basketball court as a 7 5 by 4 inch rectangle on his drawing looking for a fun way to help your kids practice and understand indirect measurement this free indirect measurement lesson will get kids outside applying their math skills to real life one of the biggest overarching math concepts in middle school is proportional relationships mastering indirect measurement a math lesson for pre algebra students with similar triangles mr slope guy 220 subscribers subscribed 1 66 views 9 months ago indirect measurement made this tutorial shows you how to take a word problem and use indirect measurement to turn it into a proportion then see how to use the mean extremes property of proportions to cross multiply and solve for the answer take a look what are corresponding parts in similar figures next measure a convenient distance nd with nd perpendicular to dg then locate point a the intersection of rn and gd because d and g are congruent and dan and gar are congruent then dan gar the distance across the canyon can be determined because the triangles are similar if ga is 120 meters da is 60 meters and nd is 50 meters what is indirect measurement indirect measurement techniques pythagorean theorem similar triangles and proportionality example 1 solution example 2 solution example 3 solution example 4 solution practice questions answer key indirect measurement an application of similar triangles is to measure lengths indirectly you can use this method to measure the width of a river or canyon or the height of a tall object the idea is that you model a situation with similar triangles and then use proportions to find the missing measurement indirectly indirect measurement an application of similar triangles is to measure lengths indirectly the length to be measured would be some feature that was not easily accessible to a person such as the width of a river or canyon and the height of a tall object to measure something indirectly you need to set up a pair of similar triangles frequently asked questions what are indirect measures an indirect measurement is the measurement of an item that is difficult to measurement the measurement can be found indirect measurement worksheet set up a proportion and solve for x show all work 1 2 set up a proportion and solve for x show all work 3 4 x 30 ft 4 ft 5 ft 90 in 36 in 54 in x 1 9 m 2 5 m 1 5 m x x 8 5 indirect measurement lesson write the correct answer 1 use similar triangles to find the height of the lamppost 2 use similar triangles to find the height of the man 8 ft 4 ft h 12 ft h 20 ft 5 ft 10 ft 3 a 3 foot tall boy looks into a mirror at the county fair the mirror makes a person appear shorter the boy appears to be 1 foot tall k 2 3 5 6 8 indirect measurement and trigonometry learn how to use the concept of similarity to measure distance indirectly using methods involving similar triangles shadows and transits apply basic right angle trigonometry to learn about the relationships among steepness angle of elevation and height to distance ratio part 1 indirect measurement sometimes an object to be measured is too small or is otherwise inaccessible use a metric ruler triple beam balance meter stick and or protractor to make the following indirect measurements and describe your methodology questions a what is the mass of a single grain of rice b indirect measurement uses similar figures to find a missing measure when it is difficult to find directly exercises 5 8 example 2 using indirect measurement you plan to cross a river and want to know how far it is to the other side you take measurements on your side of the river and make the drawing shown a explain why abc and indirect measurement 1 tamara wants to know the width of the pond at the park she drew the diagram and labeled it with the measurements she made how wide is the pond use the diagram for 2 and 3 84 ft 2 how tall is the flagpole 7 ft 36 yd 9 yd 15 yd 51 ft 119 ft 3 how tall is the child use the diagram for 4 and 5 4 indirect measurement augustine and carmen want to measure the height of the school s flagpole to do this they go outside and hold a meterstick upright the meterstick casts a shadow that measures 50 cm 1 if the shadow of the flagpole measures 6 meters how tall is the flagpole to answer this question follow these steps a skill plans ixl plans virginia state standards textbooks test prep awards improve your math knowledge with free questions in similar triangles and indirect measurement and thousands of other math skills study with quizlet and memorize flashcards containing terms like indirect measurement means proportion and more

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part 1 indirect measurement sometimes an object to be measured is too small or is otherwise inaccessible use a metric ruler triple beam balance meter stick and or
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