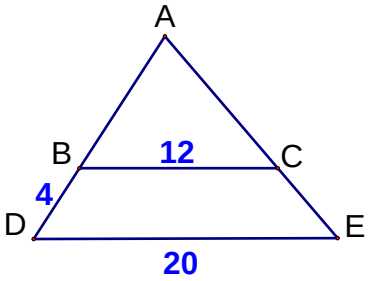
Geometry A
Similarity Practice Math Lib

Name : _____
Date : _____ Period : _____

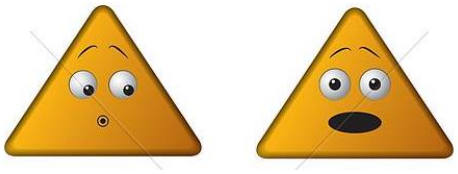
1 Given that $\frac{BC}{DE} = \frac{AB}{AD}$, solve for AB.

A) 2.4 Mrs. D'Emanuele
B) 6.4 Ms. Rabinko
C) ½ Mrs. McLane
D) 6 Mr. Miller



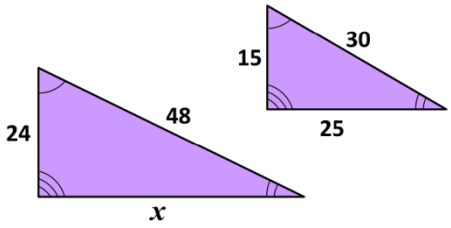
2 The perimeter of ΔABC is 35, AB = 10, ΔABC : ΔGHI and GH = 16. What is the perimeter of ΔGHI ?

A) 56 Shocked
B) 21.9 Excited
C) 4.6 Surprised
D) 2.2 Confused



3 Find the missing side in the similar figures below :

A) 34 Grading papers
B) 36 Flying a kite
C) 38 Surfing
D) 40 Making pancakes



4 The scale on a map of the state of CT is 1.5 inches : 20 mi. If Newington and New Haven are 2.4 inches away on the what is the actual distance between the two towns?

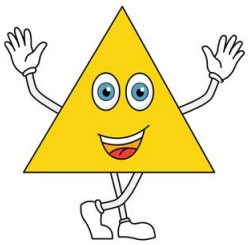
A) 18 Elmo
B) 20 Taylor Swift
C) 30 Tom Brady
D) 32 Lady Gaga

5 At the same time of day, a man who is 5 ft 8 in tall casts A 60.2 inch shadow on the ground. His son casts a 43 in. Shadow. How tall is the son (in inches)?

A) 38.1 in the 4th of July
B) 95.2 in Friday night
C) 48.6 in Halloween
D) 3.9 in the last day of school

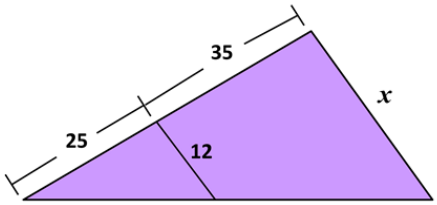
6 The measures of the angles in a triangle are in the extended ratio of 4:7:13. Please find the measure of the **largest** angle in the triangle.

A) 7.5 Disney World
B) 52.5 the airport
C) 97.5 the library
D) 180 the zoo



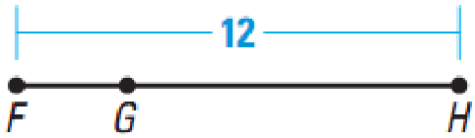
7 Find the missing side in the similar figures below:

A) 26 a boat
B) 27.6 a plane
C) 25.2 a hot air balloon
D) 28.8 a tank



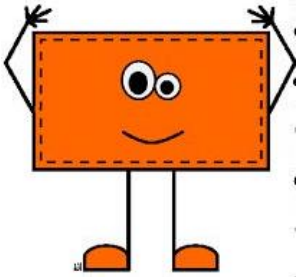
8 In the diagram, FG : GH is 1 : 3, and FH = 12. Find FG and GH.

A) 3 and 9 pajamas
B) 4 and 8 bow-ties
C) 6 and 6 gorilla costumes
D) 10 and 2 tu-tus



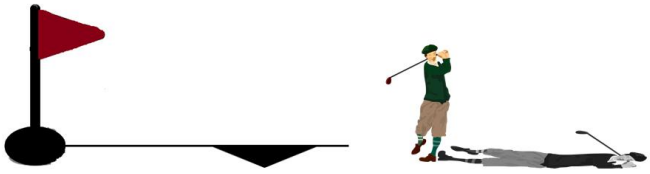
9 The perimeter of a rectangle is 84 feet. The ratio of the width to the length is 2 : 5. Please find the width and the length.

A) 6 and 15 doing backflips
B) 8 and 20 eating pies
C) 12 and 30 solving equations
D) 24 and 60 juggling



10 A flag stick on a golf course that is 6 ½ feet tall casts a 9 ¾ foot shadow on the ground while a golfer nearby casts an 8 ¾ foot shadow. How tall is the golfer?

A) 5'8" to impress everyone
B) 5'9" to promote world peace
C) 5'10" to show how cool math is
D) 5'11" to win a bet



Ratio, Proportion, and Similarity Math Lib

(1) _____ was (2) _____

to be (3) _____ with

(4) _____ on (5) _____ at

(6) _____ in (7) _____ wearing

(8) _____ while (9) _____ because

they wanted (10) _____.