Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Review Test 5.5 - 5.7 and 6.1 - 6.2 6th Grade Math

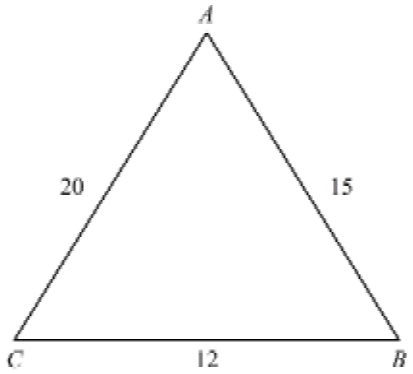
Multiple Choice
Identify the choice that best completes the statement or answers the question.

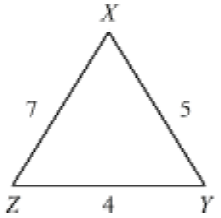
1 Choose the most appropriate customary unit for the measurement of
the distance across Lake Tahoe.
ⓐ kilometers ⓑ inches ⓒ feet ⓓ miles

2 How many feet in a mile?
ⓐ 1760 ⓑ 5280 ⓒ 500, 625 ⓓ 1440

3 How many minutes in a day?
ⓐ 500, 625 ⓑ 5280 ⓒ 1440 ⓓ 1760

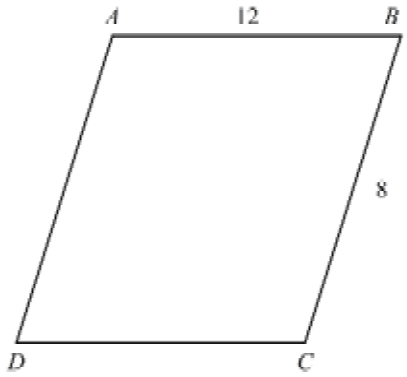
4 Tell whether ΔABC and ΔXYZ are similar.

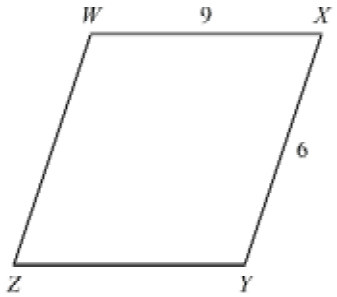




ⓐ similar ⓑ not similar

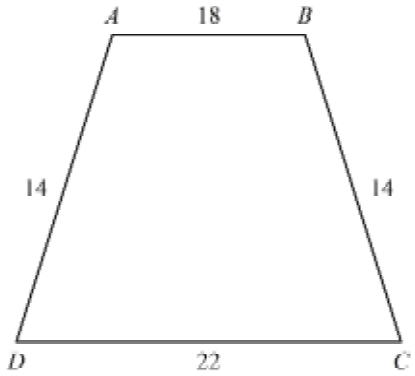
5 Tell whether parallelogram *ABCD* and parallelogram *WXYZ* are similar. The measures of the corresponding angles are equal, and the opposite sides are equal.

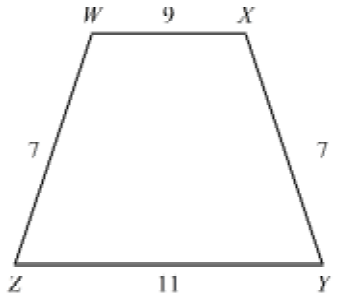




ⓐ not similar ⓑ similar

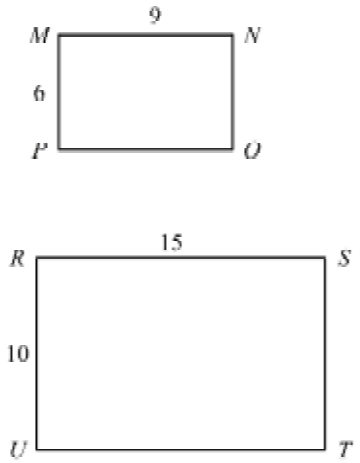
6 Tell whether trapezoid *ABCD* and trapezoid *WXYZ* are similar. The measures of the corresponding angles are equal.





ⓐ not similar ⓑ similar

7 Tell whether the rectangles are similar. If so, write the similarity ratio and a similarity statement. The measures of the corresponding angles are equal, and the opposite sides are equal.



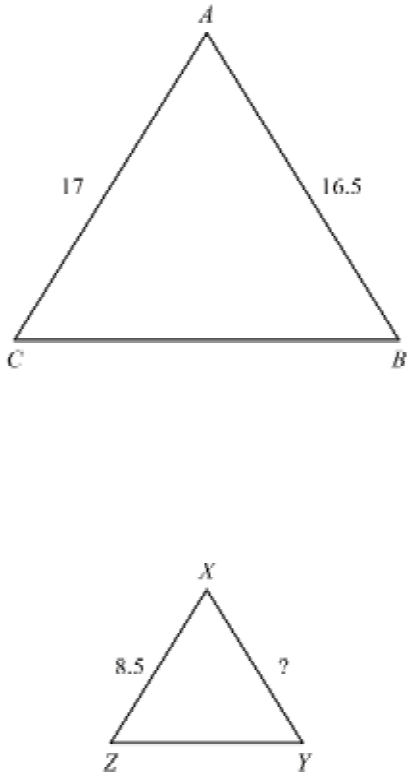
ⓐ similarity ratio: $\frac{3}{5}$
rectangle *MNOP* ~ rectangle *RSTU*

ⓑ The rectangles are not similar.

ⓒ similarity ratio: $\frac{2}{5}$
rectangle *MNOP* ~ rectangle *RSTU*

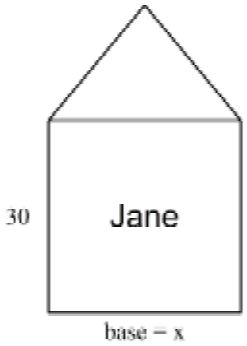
ⓓ similarity ratio: $\frac{2}{3}$
rectangle *MNOP* ~ rectangle *RSTU*

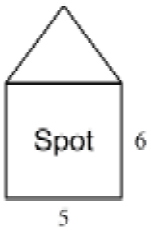
8 $\Delta ABC \sim \Delta XYZ$. Find XY.



ⓐ $s = 8$ ⓑ $s = 33$ ⓒ $s = 8.25$ ⓓ $s = 8.76$

9 The front of Jane's house is similar in shape to the front of Spot's doghouse. The base of the doghouse is 5 feet and the height is 6 feet. If the height of Jane's house is 30 feet, what is the length of its base? If necessary, round your answer to the nearest tenth.





ⓐ 30 ft ⓑ 25 ft ⓒ 36 ft ⓓ 29 ft

10 Juan sees a maple tree and a pine tree in the forest. He knows that the pine tree is 20.75 feet tall. On a sunny day, the shadow of the pine is 5.5 feet long while the maple's shadow is 20.02 feet long. Estimate the height of the maple tree.

ⓐ about 80 feet

ⓑ about 97 feet
ⓒ about 100 feet
ⓓ about 63 feet

11 A model airplane is built to a scale of 1 in.:12 ft. If the model plane is 11 inches long, find the length of the actual plane. Round your answer to the nearest foot.

ⓐ 1584 feet ⓑ 132 feet ⓒ 13 feet ⓓ 11 feet

12 Write 54% as a fraction in simplest form.

ⓐ $1\frac{27}{50}$ ⓑ $\frac{50}{27}$ ⓒ $\frac{27}{50}$ ⓓ 0.54

13 Write 33% as a decimal.

ⓐ 3.3 ⓑ $\frac{33}{100}$ ⓒ 0.33 ⓓ 3.03

14 Write 3.37 as a percent.

ⓐ 337% ⓑ 3.37% ⓒ 33.7% ⓓ 0.337%

15 Write 0.93 as a percent.

ⓐ $\frac{93}{100}$% ⓑ 0.0093% ⓒ 9.3% ⓓ 93%

16 Write $\frac{7}{10}$ as a percent.

ⓐ 70% ⓑ 142.86% ⓒ 0.7 ⓓ 0.7%

17 During the weekdays, Tom finished 84% of his weekly chores, and Kim completed $\frac{9}{10}$ of her weekly chores. Who must finish a greater percent of chores during the weekend?

ⓐ Kim

ⓑ Tom

ⓒ They both have same amount left to finish.