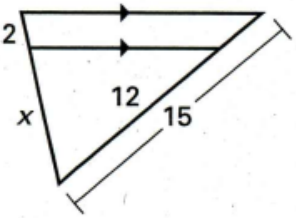
Quiz 8.7 A

DAILY HOMEWORK QUIZ

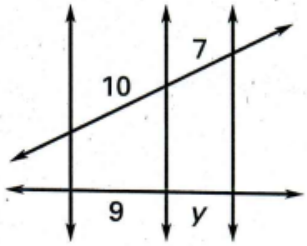
For use after Lesson 8.6, pages 497–505

Find the value of the variable.

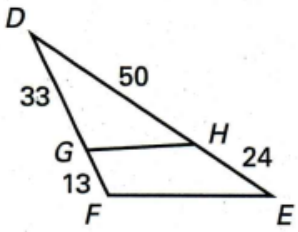
1.



2.



3. Is $\overline{GH} \parallel \overline{FE}$?



4. In $\triangle RST$, $\overline{RV}$ bisects $\angle TRS$. Write a proportionality statement for $\triangle RST$ based on Theorem 8.7.

Quiz 8.7 C

CHAPTER 8

NAME _____ DATE _____

SAT/ACT Chapter Test

For use after Chapter 8

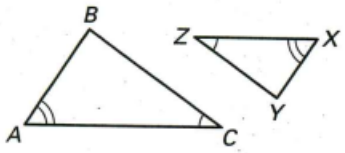
1. The perimeter of a rectangle is 36. The ratio of the lengths of the sides is 2:7. What are the lengths of the sides?

Ⓐ 4 and 14 Ⓑ 6 and 16
Ⓒ 2 and 12 Ⓓ 8 and 28
Ⓔ 13 and 19

2. Which of the following pairs of numbers has a geometric mean of 44?

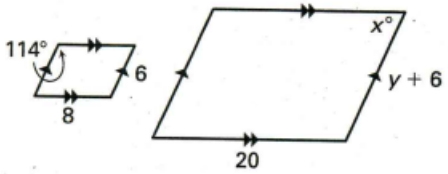
Ⓐ 3 and 72 Ⓑ 40 and 48
Ⓒ 16 and 121 Ⓓ 2 and 484
Ⓔ 96 and 17

3. The triangles shown are similar. Which of the following is *not* a correct statement?



Ⓐ $\frac{AB}{XY} = \frac{BC}{YZ}$ Ⓑ $\triangle ABC \sim \triangle XYZ$
Ⓒ $\frac{BC}{YZ} = \frac{AC}{XY}$ Ⓓ $\frac{CA}{ZX} = \frac{BA}{YX}$
Ⓔ $\frac{AC}{XZ} = \frac{AB}{XY}$

4. The two parallelograms shown are similar. What are the values of x and y?



Ⓐ $x = 114, y = 9$ Ⓑ $x = 66, y = 3$
Ⓒ $x = 114, y = 3$ Ⓓ $x = 66, y = 9$
Ⓔ $x = 114, y = 10$

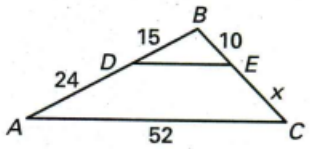
5. If $\frac{a}{b} = \frac{x}{y}$, then which one of the following is not necessarily true?

Ⓐ $ay = bx$ Ⓑ $\frac{a+x}{b+y} = \frac{a}{b} + \frac{x}{y}$
Ⓒ $\frac{b}{a} = \frac{y}{x}$ Ⓓ $\frac{y}{b} = \frac{x}{a}$
Ⓔ $\frac{y+b}{b} = \frac{x+a}{a}$

6. If $\frac{5+x}{x} = \frac{15}{6}$, then what is the value of x?

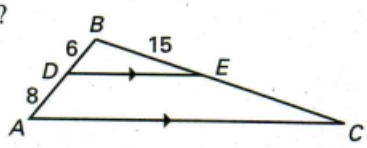
Ⓐ 3 Ⓑ $3\frac{1}{3}$ Ⓒ $3\frac{1}{4}$
Ⓓ $3\frac{1}{2}$ Ⓔ 4

7. What is the perimeter of $\triangle ABC$?



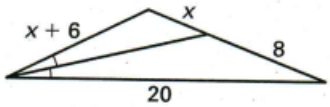
Ⓐ 114 Ⓑ 124 Ⓒ 101
Ⓓ 121 Ⓔ 117

8. What is CE?



Ⓐ 20 Ⓑ 11.25 Ⓒ 25
Ⓓ 33 Ⓔ 14

9. What is the value of x in the figure shown?



Ⓐ 3 Ⓑ 5 Ⓒ 6
Ⓓ 4 Ⓔ 7

Review and Assess