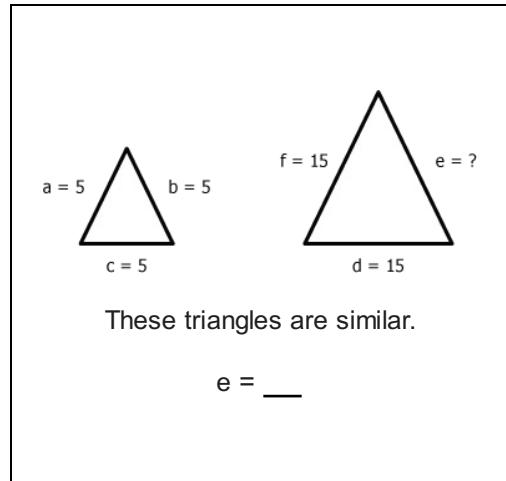


## Math Geometry and Measurement 8\_7

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

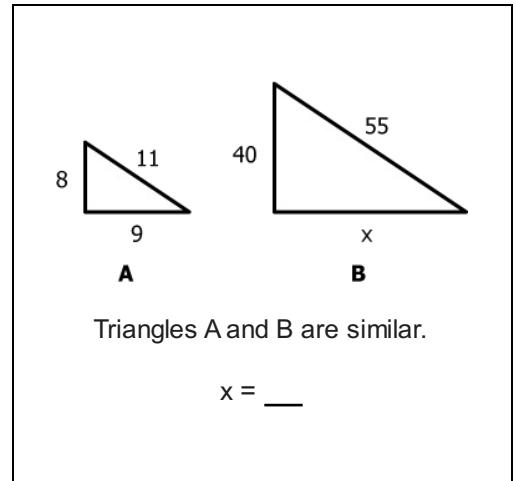
1.



These triangles are similar.

$$e = \underline{\hspace{1cm}}$$

2.



Triangles A and B are similar.

$$x = \underline{\hspace{1cm}}$$

A. 15

B. 5

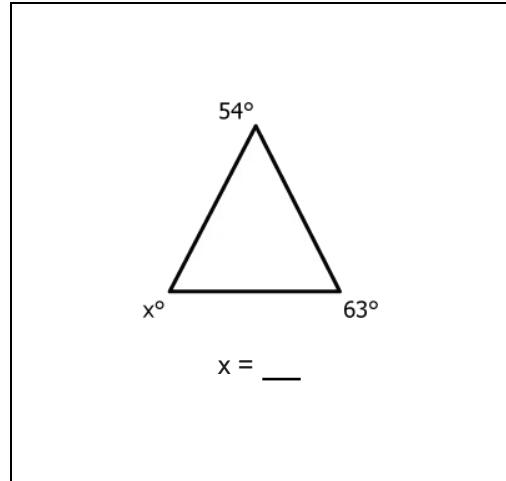
C. 10

A. 95

B. 5

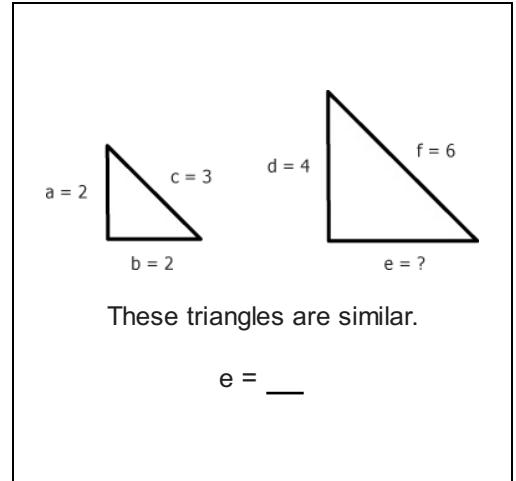
C. 45

3.



$$x = \underline{\hspace{1cm}}$$

4.



These triangles are similar.

$$e = \underline{\hspace{1cm}}$$

A.  $54^\circ$

B.  $80^\circ$

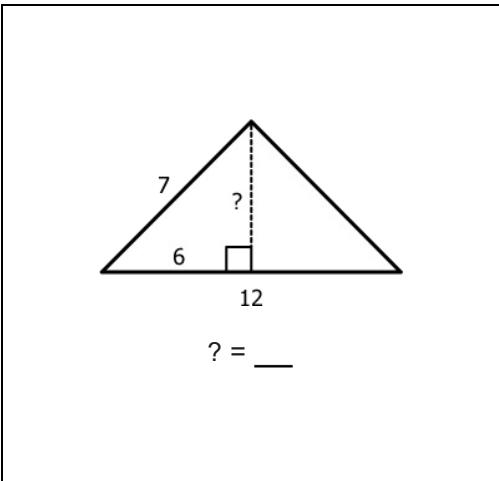
C.  $63^\circ$

A. 2

B. 6

C. 4

5.



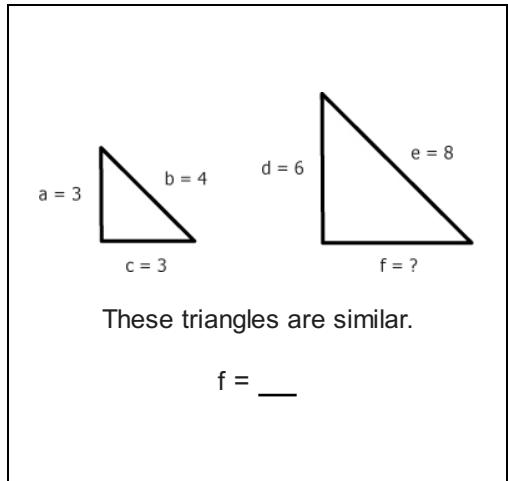
$$? = \underline{\hspace{1cm}}$$

A.  $7^2 + 6^2$

B.  $\sqrt{7^2 - 6^2}$

C.  $\sqrt{(6 \times 7)}$

6.

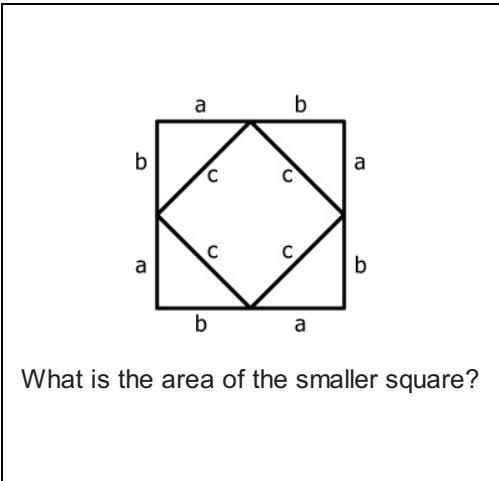


A. 8

B. 3

C. 6

7.

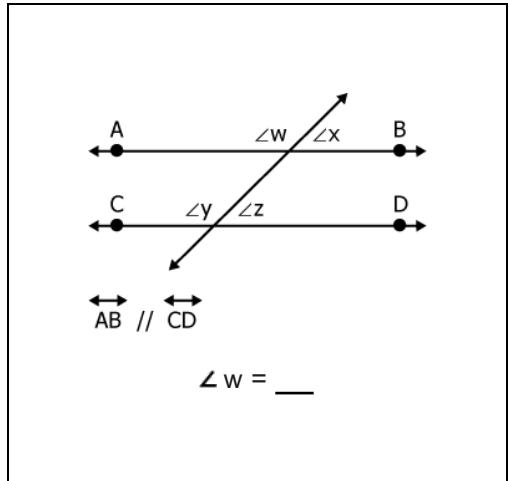


A.  $(a + c)^2$

B.  $c^2$

C.  $b^2 - a^2$

8.

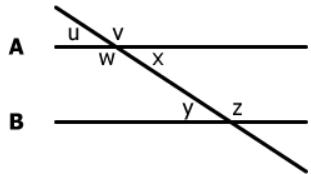


A.  $\angle y$

B.  $\angle z$

C.  $\angle x$

9.



Lines A and B are parallel.

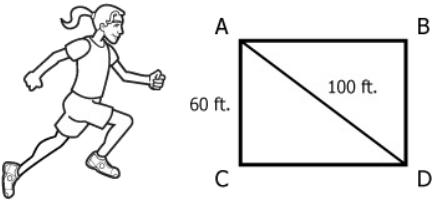
$$m\angle y = m\angle \underline{\hspace{1cm}}$$

A. w

B. v

C. x

10.



$$(AC)^2 + (CD)^2 = (AD)^2$$

Amy runs from C to D.

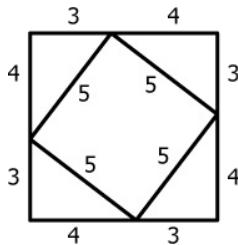
She runs    ft.

A. 160

B. 80

C. 800

11.



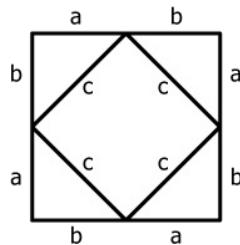
$$\text{Area of the big square} = \underline{\hspace{1cm}}$$

A. 144

B. 49

C. 48

12.

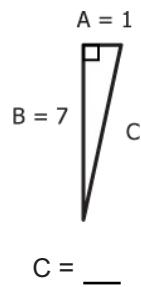


What is the area of one of the triangles?

A.  $c \times a \times b$ B.  $(a \times b) \times \frac{1}{2}$ C.  $2 \times a \times b$

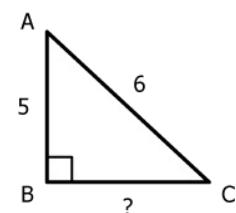
13.

$$A^2 + B^2 = C^2$$



$$C = \underline{\hspace{1cm}}$$

14.



$$(AB)^2 + (BC)^2 = (AC)^2$$

$$BC = \underline{\hspace{1cm}}$$

A.  $\sqrt{8}$

B.  $\sqrt{50}$

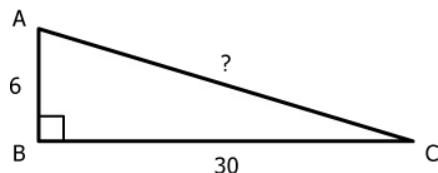
C.  $\sqrt{71}$

A.  $\sqrt{11}$

B.  $\sqrt{30}$

C.  $\sqrt{100}$

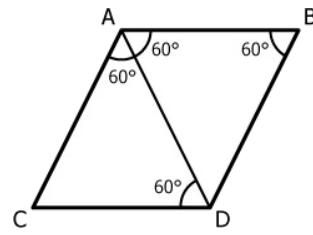
15.



$$(AB)^2 + (BC)^2 = (AC)^2$$

$$AC = \underline{\hspace{1cm}}$$

16.



$$m \angle ADB = \underline{\hspace{1cm}}$$

A.  $\sqrt{936}$

B.  $\sqrt{36}$

C.  $\sqrt{60}$

A.  $30^\circ$

B.  $45^\circ$

C.  $60^\circ$