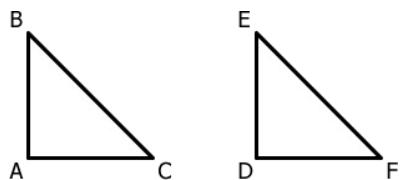


Math Geometry and Measurement 8_4

Student Name: _____

Date: _____

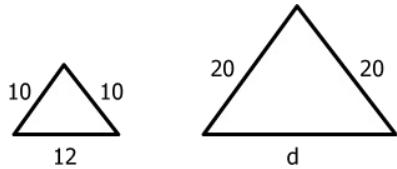
1.



ABC and DEF are congruent.

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

2.



These triangles are similar.

$$d = \underline{\hspace{1cm}} \text{ units}$$

A. DE

B. BC

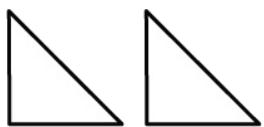
C. EF

A. 16

B. 24

C. 20

3.



These triangles are .

4.



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

A. equilateral

B. parallel

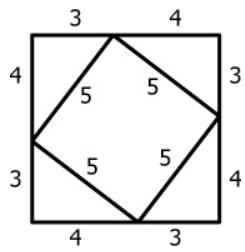
C. congruent

A. 120°

B. 140°

C. 130°

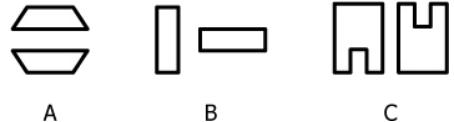
5.



Which is equal to the area of the big square?

- A. $5^2 + 3^2 + 4^2$
- B. $5^2 + 4(3 \times 4 \times \frac{1}{2})$
- C. $\frac{3 \times 5 \times 4}{4}$

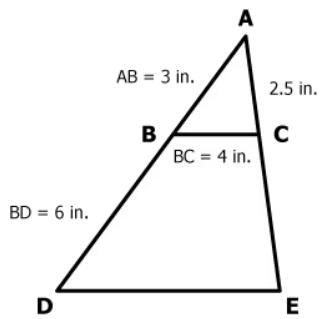
6.



Which pairs are congruent?

- A. B and C only
- B. A and B and C
- C. A and C only

7.

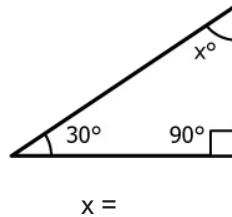


Triangle ABC is similar to Triangle ADE.

$$CE = \underline{\hspace{1cm}} \text{ in.}$$

- A. 5
- B. 2.5
- C. 7

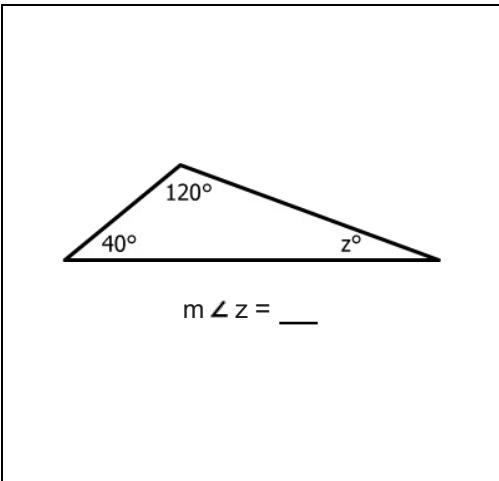
8.



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

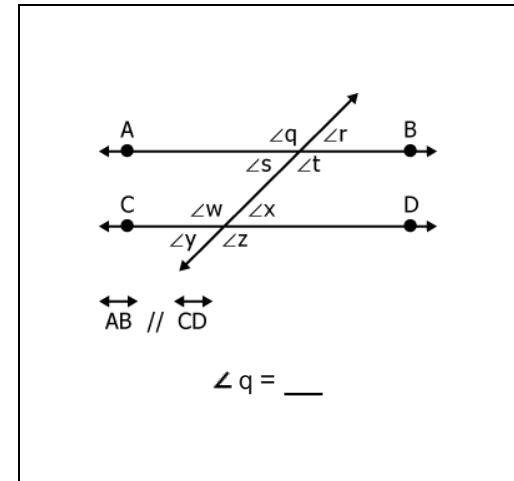
- A. 50°
- B. 60°
- C. 90°

9.



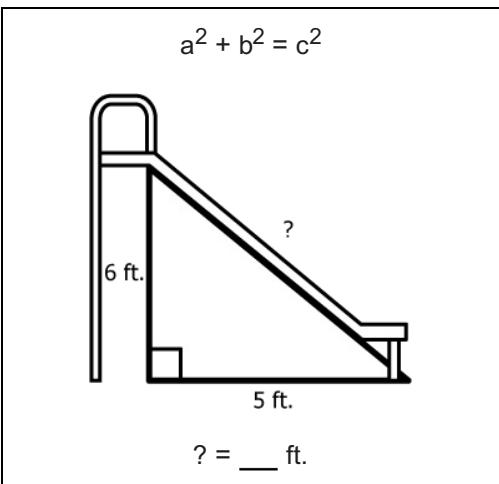
- A. 80°
- B. 20°
- C. 30°

10.



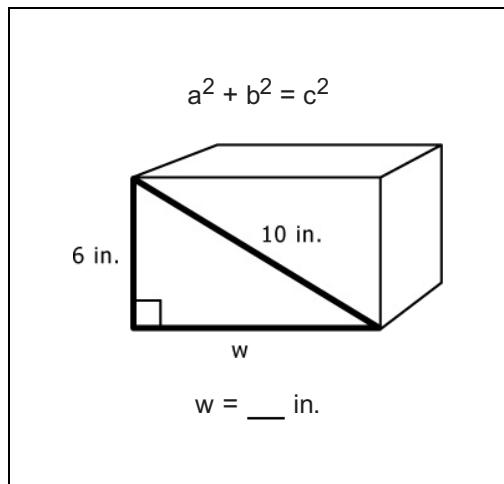
- A. $\angle s$
- B. $\angle t$
- C. $\angle r$

11.



- A. $\sqrt{61}$
- B. $\sqrt{30}$
- C. $\sqrt{11}$

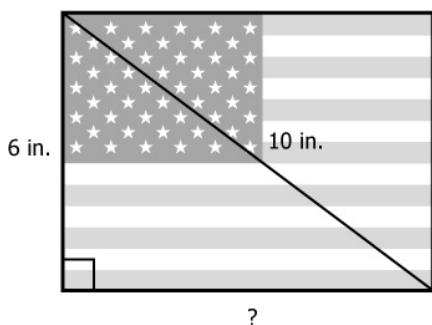
12.



- A. $\sqrt{16}$
- B. 8
- C. 160

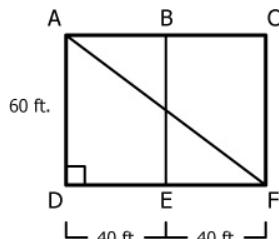
13.

$$a^2 + b^2 = c^2$$



$$? = \underline{\hspace{1cm}} \text{ in.}$$

14.



$$(AD)^2 + (DF)^2 = (AF)^2$$

$$AF = \underline{\hspace{1cm}} \text{ ft.}$$

A. 8

B. 18

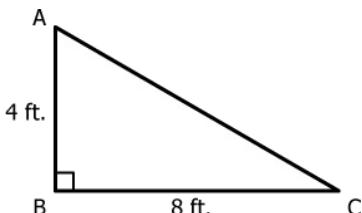
C. 16

A. 1,000

B. 85

C. 100

15.



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

$$AC = \underline{\hspace{1cm}} \text{ ft.}$$

16.

$$a^2 + b^2 = c^2$$

$$a = 7$$

$$b = 9$$

$$c^2 = \underline{\hspace{1cm}}$$

A. $\sqrt{12}$

B. $\sqrt{32}$

C. $\sqrt{80}$

A. 63

B. 16

C. 130