

Math Geometry and Measurement 8_8

Student Name: _____

Date: _____

1.



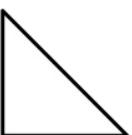
Which is congruent to Z?



A



B



C

2.



Which is congruent?

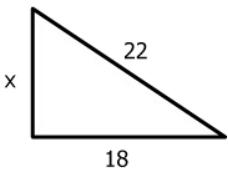
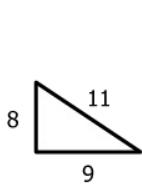


A. A

B. B

C. C

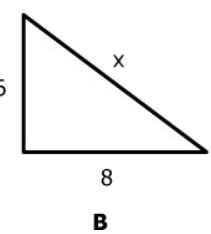
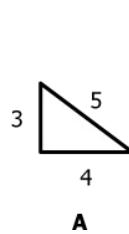
3.



Triangles A and B are similar.

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

4.



Triangles A and B are similar.

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

A. 16

B. 18

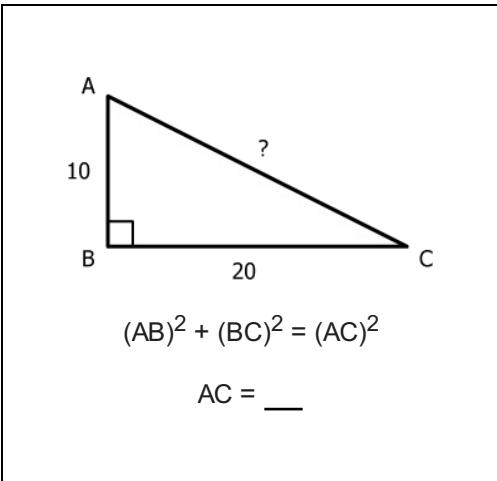
C. 24

A. 8

B. 10

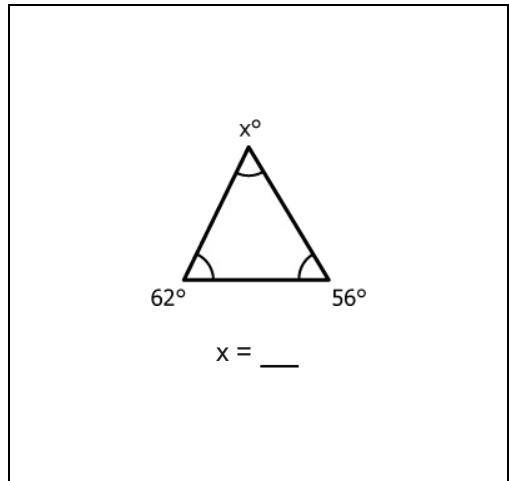
C. 15

5.



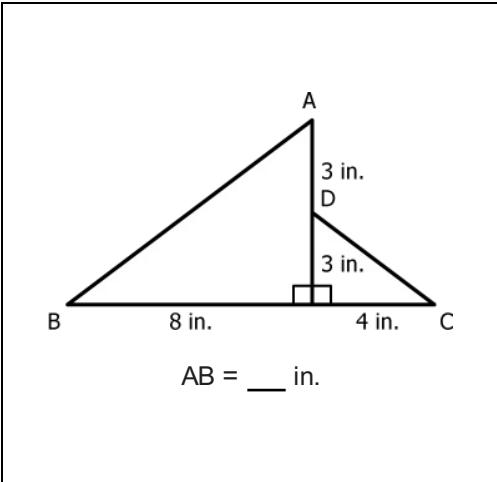
- A. $\sqrt{30}$
- B. $\sqrt{200}$
- C. $\sqrt{500}$

6.



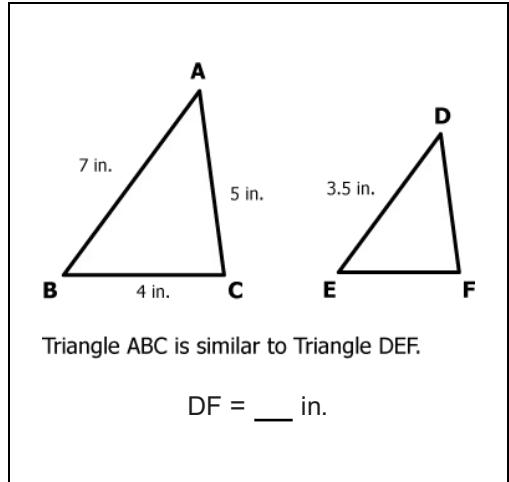
- A. 55°
- B. 62°
- C. 84°

7.



- A. 10
- B. 3
- C. 5

8.



- A. 5
- B. 14
- C. 2.5

9.

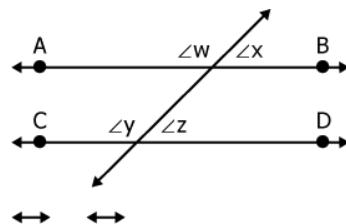
$$a^2 + b^2 = c^2$$

$$a = 10$$

$$b = 8$$

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

10.



$$m\angle w + m\angle x = \underline{\hspace{2cm}}$$

A. 100

B. 164

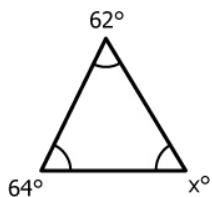
C. 18

A. 180°

B. 360°

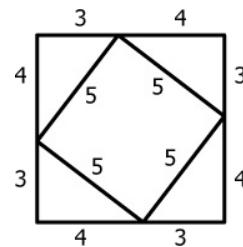
C. 90°

11.



$$x = \underline{\hspace{2cm}}$$

12.



$$\text{Area of the smaller square} = \underline{\hspace{2cm}}$$

A. 61°

B. 52°

C. 54°

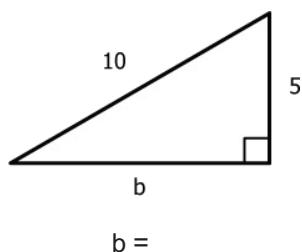
A. 20

B. 15

C. 25

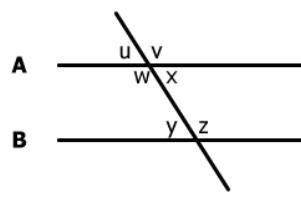
13.

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



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

14.



Lines A and B are parallel.

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

A. $\sqrt{75}$

B. $(100 - 5)^2$

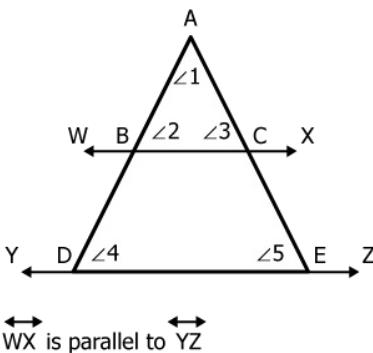
C. 75^2

A. z

B. u

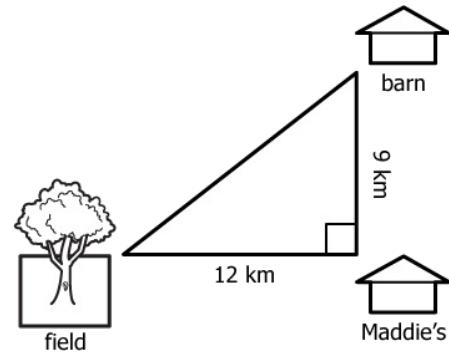
C. v

15.



$$m\angle 3 = \underline{\hspace{1cm}}$$

16.



How far from the barn to the field?

A. $m\angle 1$

B. $m\angle 5$

C. $m\angle 2$

A. 5 km

B. 17 km

C. 15 km