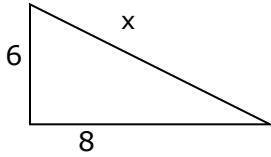


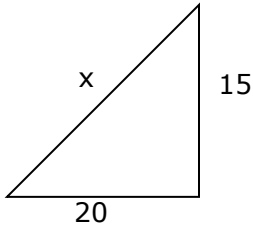
Use the Pythagorean Theorem to find x in problems 1 through 6.

1.



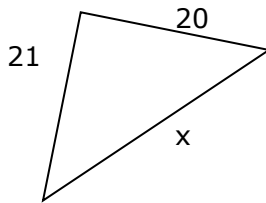
- A. 100
- B. 10
- C. $\sqrt{28}$
- D. 28

2.



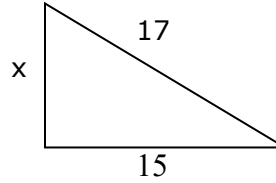
- A. $\sqrt{625}$
- B. $\sqrt{175}$
- C. 34
- D. 625

3.



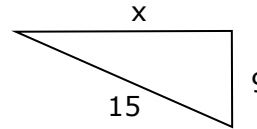
- A. 29
- B. 41
- C. 841
- D. $\sqrt{441}$

4.



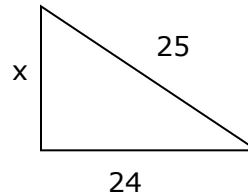
- A. 64
- B. $\sqrt{514}$
- C. 16
- D. 8

5.



- A. 17
- B. $\sqrt{306}$
- C. 12
- D. 24

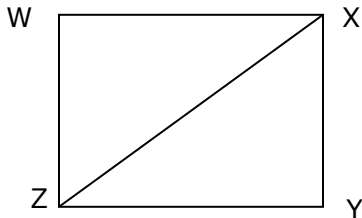
6.



- A. 24.5
- B. $\sqrt{49}$
- C. $\sqrt{1201}$
- D. 15

Choose the best answer for problem 7. In problems 8-10, use the Pythagorean theorem and a calculator to find x . Then round your answer to the nearest whole number.

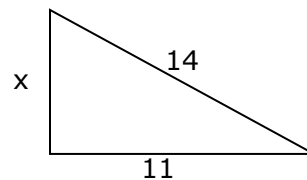
7.



If $WZ = 11$ and $ZY = 61$, how long is ZY ?

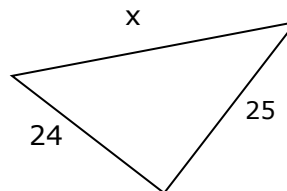
- A. 41
- B. 60
- C. $\sqrt{61}$
- D. 121

8. Use the Pythagorean theorem and a calculator to find x . Round your answer to the nearest whole number.

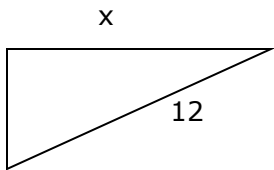


- A. 16
- B. 10
- C. 17
- D. 9

9.



- A. 49
- B. 35
- C. 34
- D. 7

10.  A. 13
B. 14
C. 11
D. 10

Make a drawing to solve problems 11-14.

11. Mary drove 5 miles north from her home. Then she drove 12 miles east before driving in a straight line back home. What was the total number of miles that she drove?

- A. 13
- B. 30
- C. 169
- D. 25

12. A wire is placed from the top of a 24 foot pole and attached to the ground 10 feet from the pole. How long is the wire?

- A. 26 feet
- B. 21 feet
- C. 30 feet
- D. 24 feet

13. If you want to use a 30-foot piece of wire in problem 12, how far from the pole should you place it?

- A. 38 feet
- B. 18 feet
- C. 15 feet
- D. 54 feet

14. A diagonal line drawn from corner to corner on an $8\frac{1}{2}$ " by 11" (letter size page) would be

- A. Between 13" and 14"
- B. Exactly 11"
- C. Between 12" and 13"
- D. Exactly 12"

Answer Key

1. B
2. A
3. A
4. D
5. C
6. B
7. B
8. D
9. B
10. D
11. B
12. A
13. B
14. A