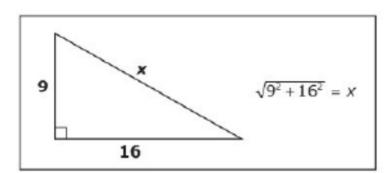
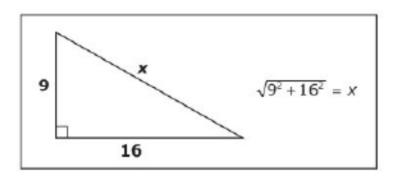
6 A student used the triangle and equation shown to find x, the missing side length.



Which equation shows the correct result of the first step?

- $\sqrt{81 + 256} = x$
- $\sqrt{18+32} = x$
- c. 9 + 16 = x
- $\sqrt{25^2} = x$

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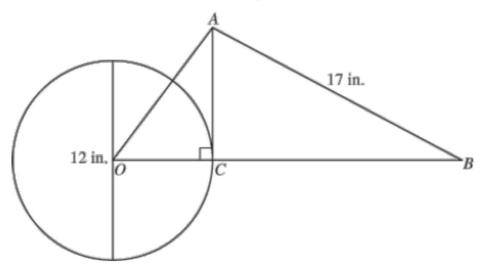
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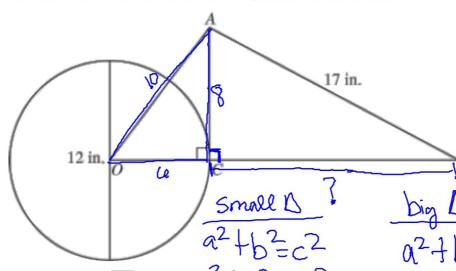
7: Triangle AOC intersects a circle with center O. Side AO is 10 inches (in.) and the diameter of the circle is 12 in., as shown below.



What is the length of \overline{BC} ?

- A 10 inches
- B. 14 inches
- c. 15 inches
- D. 16 inches

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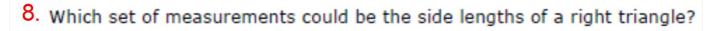
D. 16 inches

$$a^{2}+36=100$$
 $a^{2}=64$

$$0 = 2$$

$$\sqrt{a^2} = 2$$

$$0 = 1$$



- A {3 in., 5 in., 7 in.}
- B. {6 in., 9 in., 12 in.}
- C. {8 in., 15 in., 17 in.}
- D. {10 in., 20 in., 30 in.}

8. Which set of measurements could be the side lengths of a right triangle?

 $\sqrt{3}$ in., 5 in., 7 in.} $3^2 + 5^2 \stackrel{?}{=} 7^2$ $9 + 25 \stackrel{?}{=} 49$ 34 + 99

(6 in., 9 in., 12 in.) $6^2 + 9^2 = 12^2$ 36 + 81 = 144 $117 \neq 144$ (18 in., 15 in., 17 in.) $8^2 + 15^2 = 17^2$ 64 + 225 = 289 289 = 289

D. {10 in., 20 in., 30 in.}

9.

The shortest side of a right triangle is 7.2 centimeters long and the longest side is 15.5 centimeters long. What is the length, to the nearest tenth of a centimeter, of the third side?

- A 8.3 cm
- B. 11.4 cm
- C. 13.7 cm
- D. 17.1 cm

9.

The shortest side of a right triangle is 7.2 centimeters long and the longest side is 15.5 centimeters long. What is the length, to the nearest tenth of a centimeter, of the third side?

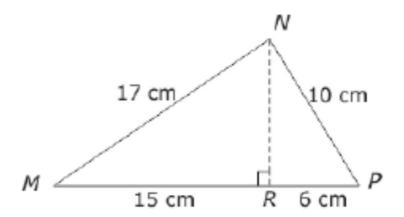
- A 8.3 cm
- 11.4 cm
- c. 13.7 cm
- D. 17.1 cm

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

 $a^{2} + 7.2^{2} = 15.5^{2}$
 $a^{2} + 51.84 = 240.25$
 $a^{2} = 188.41$
 $7a^{2} = 7188.41$

 $\alpha = 13.72$

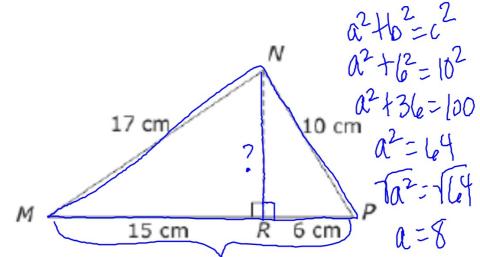
10 In the figure below is $\triangle MNP$.



What is the area of $\triangle MNP$?

- A 84 cm²
- B. 105 cm²
- c. 158 cm²
- D. 168 cm²

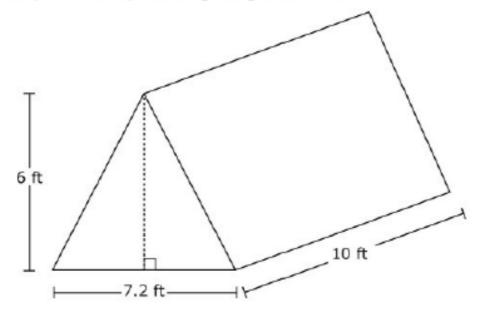
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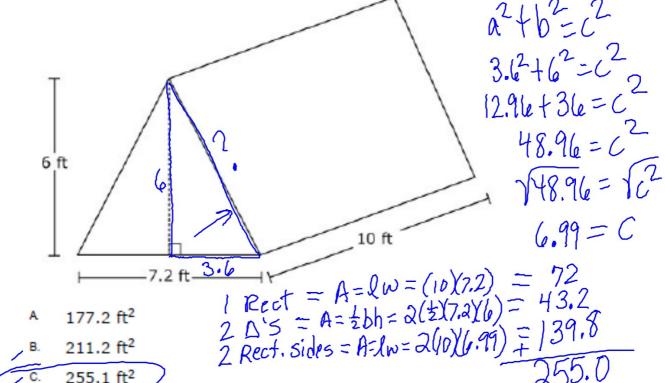
$$A = \frac{1}{2}bh$$
 $A = \frac{1}{2}(21)(8)$
 $A = 84 cm^{2}$

11. A tent is shaped like an isosceles triangular prism with the dimensions shown. What is the total surface area, to the nearest tenth of a square foot, of the tent, including the ground floor?



- A 177.2 ft²
- B. 211.2 ft²
- c. 255.1 ft²
- D. 302,6 ft²

11. A tent is shaped like an isosceles triangular prism with the dimensions shown. What is the total surface area, to the nearest tenth of a square foot, of the tent, including the ground floor?

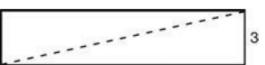


255.1 ft²

302.6 ft²

cket out the door.

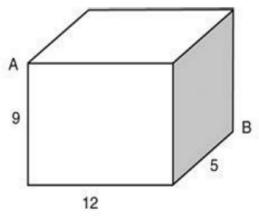
The perimeter of the rectangle is 36 centimeters.



What is the length of the diagonal?

- A 108 centimeters
- C. √216 centimeters
- D. $\sqrt{234}$ centimeters

2) The figure is a rectangular prism.



Note: The figure is not drawn to scale.

What is the length of the diagonal from Point A to F

Round to the nearest tenth.

