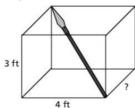
OCOMPLETE THE FOLLOWING 3 WORD PROBLEMS IN YOUR TEST-TAKING SECTION.

- 1) Dylan has a 15 foot ladder. He placed it 5 feet from the base of the house and then leaned the ladder against the house. About how far up the house does the ladder reach?
- 2) Sara draws a rectangle with a length of 78 inches and a width of 39 inches. She draws a diagonal line from one corner to the other. Approximately how long is the diagonal line? (Round to the nearest inch)
- 3)A rectangular television screen has a diagonal measurement of 52 inches and a width of 32 inches. What is the approximate length of the television screen?
- GET ON MATH COMPASS LEARNING FOR TECH-TUESDAY!! USE MY.NCEDCLOUD.ORG TO LOGIN. Login: first intial+last name+last 4 digits of ID Password: YYMMDD

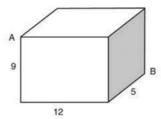
A spear of 5.4 ft is inserted in a wooden box as shown.



What is the approximate width of the base?

- A 7 ft
- B. 5 ft
- c. 3 ft
- D. 2 ft

The figure is a rectangular prism. 3.

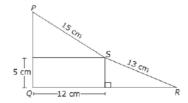


Note: The figure is not drawn to scale.

What is the length of the diagonal from Point A to Point B?

- A 13
- B. 15
- C. 5 10
- D. 12 10

5. Figure PQRS below is made up of a rectangle and two right triangles.



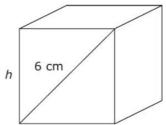
What is the perimeter of figure PQRS?

- A 78 cm
- B. 66 cm
- c. 62 cm
- D. 45 cm

Pythagorean Theorem 2-D and 3-D Figures

DRAW ALL PICTURES AND SHOW ALL WORK

The diagonal of the face of a cube is 6 centimeters (cm)



What is the height, h, of the cube?

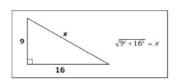
- A √6cm
- B. 3 cm
- C. √18cm
- D. 6 cm
- Linda bought a rectangular-shaped table.

 - The top of the table has a width of 56 inches.
 The diagonal of the top of the table was 64 inches.

What is the approximate area of the top of the table?

- A 1,736 square inches
- B. 1,984 square inches
- c. 3,584 square inches
- D. 4.762 square inches

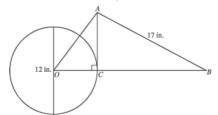
 $\mathbf{6}$ A student used the triangle and equation shown to find x, the missing



Which equation shows the correct result of the first step?

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

 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} ?

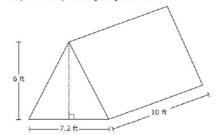
- A 10 inches
- B. 14 inches
- c. 15 inches
- D. 16 inches

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

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?

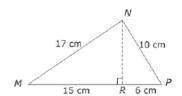


- A 177.2 ft²
- B. 211.2 ft²
- c. 255.1 ft²
- D. 302.6 ft²

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

- 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.}

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