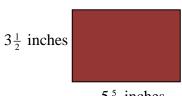
## **Block 6 Review ~ Area and Volume**

Name\_\_\_\_

Period\_\_\_\_\_ Date\_\_\_\_

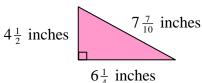
**1.** Using the given measurements, what is the area of the rectangle below?



 $5\frac{5}{8}$  inches

- A.  $15\frac{5}{16}$  square inches
- B.  $18\frac{1}{4}$  square inches
- C.  $19\frac{11}{16}$  square inches
- D.  $20\frac{7}{8}$  square inches

**2.** Using the given measurements, what is the area of the triangle below?



- A.  $10\frac{3}{4}$  square inches
- B.  $14\frac{1}{16}$  square inches
- C.  $18\frac{9}{20}$  square inches
- D.  $28\frac{1}{8}$  square inches

For numbers 3a - 3c, determine whether each statement is TRUE or FALSE.



To find the area of the square above, multiply...

**3a.** 
$$3\frac{1}{4} \times 3\frac{1}{4} \times 3\frac{1}{4} \times 3\frac{1}{4}$$

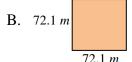
**3b.** 
$$3\frac{1}{4} \times 4$$

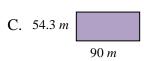
**3c.** 
$$3\frac{1}{4} \times 3\frac{1}{4}$$

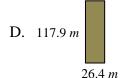
**4.** Yani walked the perimeter of a square patio that was 5.3 meters on each side. What is the distance that Yani walked?

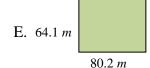
- A. 21.2 meters
- B. 28.09 meters
- C. 30.12 meters
- D. 39.6 meters

**5.** Which rectangles have a perimeter of 288.6 meters? Circle all that apply.





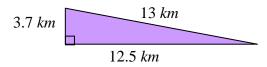




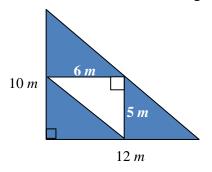
**6.** What is the area in square centimeters of the rectangle below?

- A. 12.8 square centimeters
- B. 15.53 square centimeters
- C. 22.47 square centimeters
- D. 25.6 square centimeters

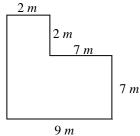
**7.** What is the area in square kilometers of the triangle below?



- A. 23.125 square kilometers
- B. 28.48 square kilometers
- C. 36.35 square kilometers
- D. 46.25 square kilometers
- **8.** What is the area of the shaded region?

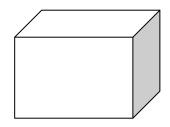


- A. 30 square meters
- B. 45 square meters
- C. 60 square meters
- D. 120 square meters
- **9.** Find the area of the figure below.



- A. 67 square meters
- B. 65 square meters
- C. 53 square meters
- D. 51 square meters

**10.** What is the name of the solid shown?

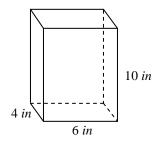


- A. Pyramid
- B. Cube
- C. Rectangle
- D. Prism

## For numbers 11a – 11e, choose YES or NO to indicate whether each solid has a flat base.

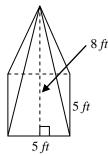
11a. Cone	YES	NO
11b. Cylinder	YES	NO
11c. Sphere	YES	NO
11d. Pyramid	YES	NO
11e. Prism	YES	NO

## **12.** What is the surface area of the prism?



- A. 248 square inches
- B. 240 square inches
- C. 40 square inches
- D. 20 square inches

13. What is the surface area of the square pyramid?



- A. 80 square feet
- B. 105 square feet
- C. 140 square feet
- D. 185 square feet
- **14.** Jake made a box that was  $1\frac{1}{3}$  yards long,  $\frac{1}{2}$  yard wide and  $\frac{1}{2}$  yard tall. Which expression below should Jake use to find the volume of his box?

A. 
$$1\frac{1}{3} \times \frac{1}{2} \times \frac{1}{2}$$

A. 
$$1\frac{1}{3} \times \frac{1}{2} \times \frac{1}{2}$$
 B.  $\frac{1}{2} + 1\frac{1}{3} + \frac{1}{2}$ 

C. 
$$\frac{1}{2} \times \frac{1}{2} + 1\frac{1}{3}$$
 D.  $\frac{1}{2} + \frac{1}{2} \times 1\frac{1}{3}$ 

D. 
$$\frac{1}{2} + \frac{1}{2} \times 1\frac{1}{3}$$

**15.** A box has a length of 2 feet, a width of  $\frac{3}{8}$ foot and a height of  $\frac{1}{3}$  foot. What is the volume of this box?

A. 
$$2\frac{17}{24}$$
 cubic feet B.  $2\frac{1}{4}$  cubic feet

B. 
$$2\frac{1}{4}$$
 cubic feet

C. 
$$\frac{6}{11}$$
 cubic foot D.  $\frac{1}{4}$  cubic foot

D. 
$$\frac{1}{4}$$
 cubic foot

**16.** Pete wanted to fill a rectangular form with cement. The form measured  $2\frac{1}{3}$  yards long,  $1\frac{1}{2}$  yards wide and  $\frac{1}{2}$  yard tall. How many cubic yards of cement will Pete need to fill the form?

A. 
$$1\frac{3}{4}$$
 cubic yards

A. 
$$1\frac{3}{4}$$
 cubic yards B.  $3\frac{1}{12}$  cubic yards

C. 
$$4\frac{1}{3}$$
 cubic yards D. 5 cubic yards