## Block 6 Review ~ Area and Volume

Name $\qquad$ Period $\qquad$ Date $\qquad$

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

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. $3 \frac{1}{4} \times 3 \frac{1}{4} \times 3 \frac{1}{4} \times 3 \frac{1}{4}$
TRUE FALSE

3b. $3 \frac{1}{4} \times 4$
TRUE FALSE
3c. $3 \frac{1}{4} \times 3 \frac{1}{4}$
TRUE FALSE
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.
A. $52.5 m$

B. 72.1 m

C. 54.3 m

D. 117.9 m

F. 41.9 m

103 m
26.4 m
E. 64.1 m

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. $1 \frac{1}{3} \times \frac{1}{2} \times \frac{1}{2}$
B. $\frac{1}{2}+1 \frac{1}{3}+\frac{1}{2}$
C. $\frac{1}{2} \times \frac{1}{2}+1 \frac{1}{3}$
D. $\frac{1}{2}+\frac{1}{2} \times 1 \frac{1}{3}$
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
C. $\frac{6}{11}$ 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
B. $3 \frac{1}{12}$ cubic yards
C. $4 \frac{1}{3}$ cubic yards
D. 5 cubic yards
