Standardized Test

Name _____ Date _____

1. Michael put the following items in his shopping basket.

Juice	$3.98
Sandwich	$4.19
Chips	$0.79

What is the best estimate of the sum of the items to the nearest whole number?

a. $7

b. $8

c. $9

d. $10

2. What is the product 4.5×2.004?

a. 0.9018

b. 9.018

c. 90.18

d. 901.8

3. What is the quotient $45.708 \div 8.79$?

a. 0.052

b. 0.52

c. 5.2

d. 52

4. Mrs. Wallace bought 0.75 pound of sliced turkey for $3.45 and 1.5 pounds of sliced ham for $6.60. How much more was the turkey per pound than the ham?

a. $0.20

b. $1.20

c. $3.15

d. $9.00

5. What is the difference 377.109 − 58.276?

a. 318.833

b. 321.833

c. 329.933

d. 435.385

6. Place the decimal point in the quotient to make the division sentence true.
8.94 ÷ 0.016 = 55875

a. 0.55875

b. 5.5875

c. 55.875

d. 558.75

7. A rectangle has an area of 90 square centimeters and a height of 12.5 centimeters. What is the length of the base?

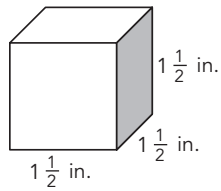
a. 7.2 centimeters

b. 72 centimeters

c. 112.5 centimeters

d. 1125 centimeters

8. How many unit cubes with a length of $\frac{1}{4}$-inch would fit inside the cube shown, with no extra space?



a. $3\frac{3}{8}$

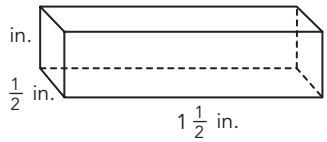
b. 27

c. 54

d. 216

9. Gary is comparing four geometric solids. Which solid has the greatest volume?

a.



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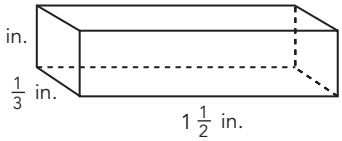
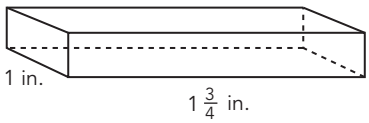
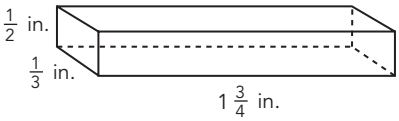


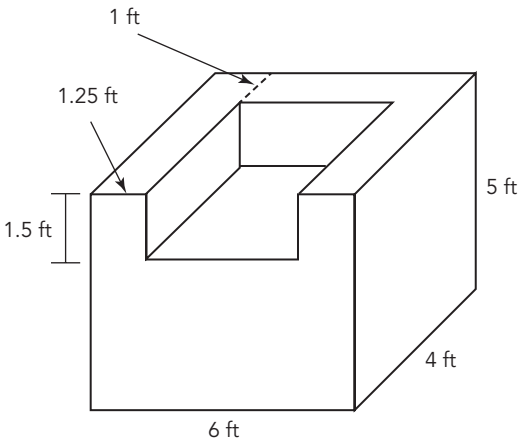
c.



d.



10. The diagram represents a barbecue. What is the volume of the barbecue?



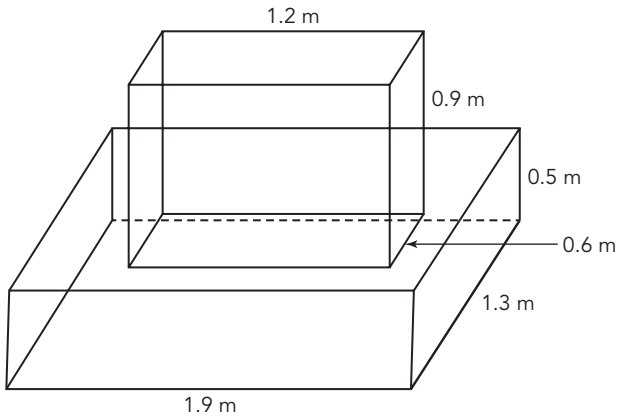
a. 120 cubic feet

b. 104.25 cubic feet

c. 20.25 cubic feet

d. 84 cubic feet

11. What is the volume of the figure?



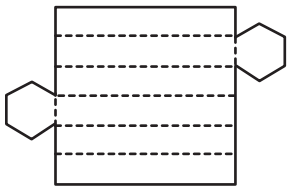
a. 0.587 cubic meters

b. 1.883 cubic meters

c. 2.7 cubic meters

d. 6.4 cubic meters

12. What is the name of the solid figure you will make if you fold the net shown?



a. triangular prism

b. pentagonal pyramid

c. octagonal pyramid

d. hexagonal prism

13. A rectangular gift box is 10 inches long, 7 inches wide, and 1.25 inches high. Gift-wrap costs $0.012 per square inch. How much does is cost to wrap the box if you use the least possible amount of gift-wrap to cover the entire box?

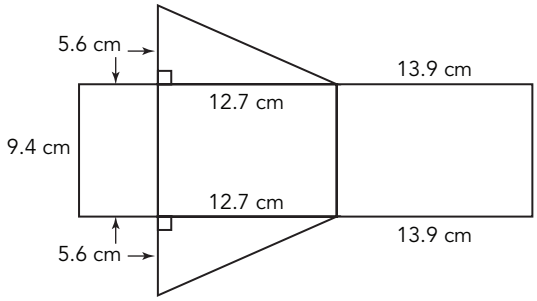
a. $1.05

b. $2.19

c. $1.20

d. $2.10

14. What is the surface area of the solid figure represented by the net?



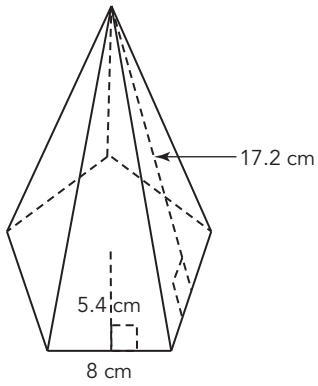
a. 338.24 square centimeters

b. 373.80 square centimeters

c. 444.92 square centimeters

d. 747.6 square centimeters

15. Construction paper costs $0.006 per square inch. How much will Susanna spend to build the figure out of construction paper? Round your answer to the nearest cent.



a. $1.06

b. $2.71

c. $4.46

d. $5.42

16. One of Mollie's favorite toys is a set of hollow rectangular plastic blocks that can be filled with water to use as bath toys. The red block has dimensions $4\frac{1}{4}$ inches by $6\frac{1}{4}$ inches by $5\frac{1}{4}$ inches. Which represents the volume of the red block? Select all that apply.

a. 30 cubic inches

b. 2,231 $\frac{1}{4}$ cubic inches

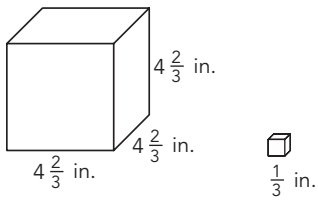
c. 139 $\frac{29}{64}$ cubic inches

d. 557 cubic inches

e. $\left(\frac{17}{4}\right)\left(\frac{25}{4}\right)\left(\frac{21}{4}\right)$ cubic inches

f. $\frac{8{,}925}{64}$ cubic inches

17. Which expressions represent the volume of the cube shown in cubic inches? Select all that apply.



a. $14 \times 14 \times 14$

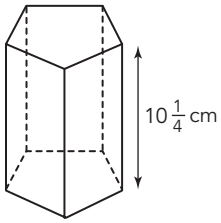
b. $14 \times 14 \times 14 \times \frac{1}{3}$

c. $14 \times 14 \times 14 \times \frac{1}{27}$

d. $4 \times 4 \times 4 \times \frac{2}{3}$

e. $4\frac{2}{3} \times 4\frac{2}{3} \times 4\frac{2}{3}$

18. The area of the base of the prism shown is $16\frac{1}{2}$ square centimeters and the height is $10\frac{1}{4}$ centimeters. Which equation(s) can be used to determine the volume, in square centimeters, of the prism? Select all that apply.



a. $V = 16\frac{1}{2} \times 10\frac{1}{4}$

b. $V = \left(16\frac{1}{2}\right)^2 \times 10\frac{1}{4}$

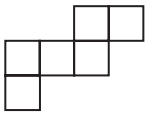
c. $V = \frac{1}{2}\left(16\frac{1}{2} \times 10\frac{1}{4}\right)$

d. $V = 10\frac{1}{4} \times 16\frac{1}{2}$

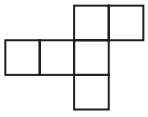
e. $V = 16\frac{1}{2} \times 16\frac{1}{2} \times 10\frac{1}{4}$

19. Which net would NOT fold to make a cube? Select all that apply.

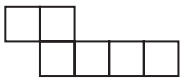
a.



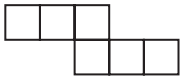
b.



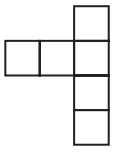
c.



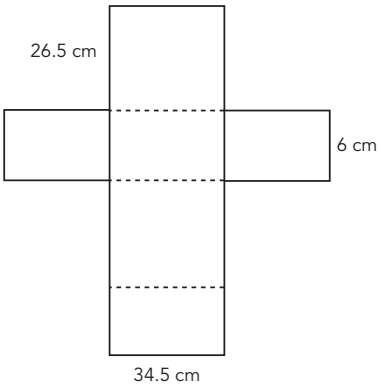
d.



e.



20. Grace is wrapping a shirt for a gift. Which represents how much wrapping paper will she need, in square centimeters? Select all that apply.



a. $6 \times 26.5 + 34.5 \times 26.5 + 6 \times 34.5$

b. $2(6 \times 26.5 \times 34.5)$

c. $2 \times 6 \times 26.5 + 2 \times 34.5 \times 26.5 + 2 \times 6 \times 34.5$

d. 134

e. 1280.25

f. 2,560.5