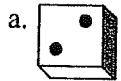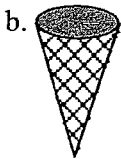# Unit 11 Review
Study Guide
Name _Answer Key_

1. Each object below has the shape of a geometric solid. Write the name of each geometric solid.
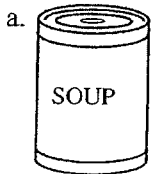
   a. _Cube_

   b. _Cone_

2. Each object below has the shape of a geometric solid. Write the name of each geometric solid.

   a. _Cylinder_

   b. _Sphere_
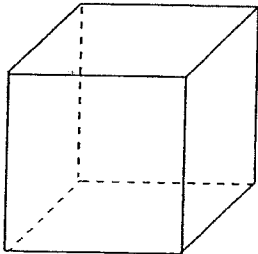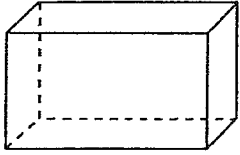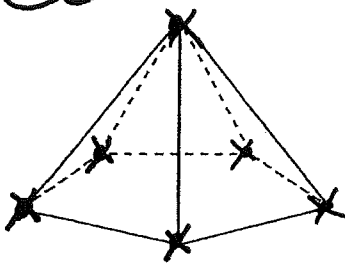
3. How many faces does the cube have?

   6 faces

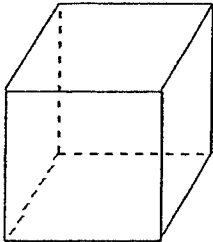4. How many faces does the rectangular prism have?

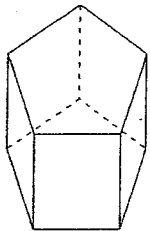_____6 faces_

5. Mark Xs on the vertices of the pentagonal pyramid.

6. How many edges does the cube have?

_____12 edges_

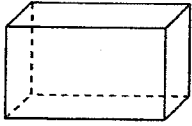7. Write the name of the shape of the base of the geometric solid given below.
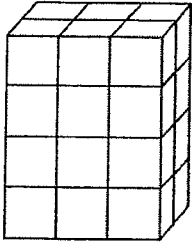
_____Pentagon_____

8. Describe the vertices, edges, faces, and bases of the geometric solid below.

This 3-D shape is a rectangular prism. It has 6 faces, 8 vertices, and 12 edges. The base is a rectangle.
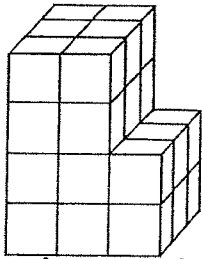
9. Find the volume of each stack of centimeter cubes.
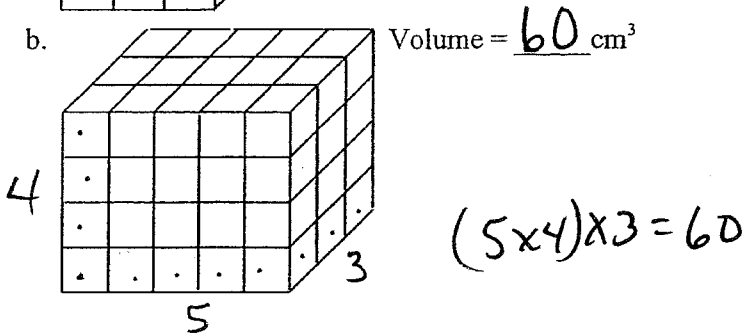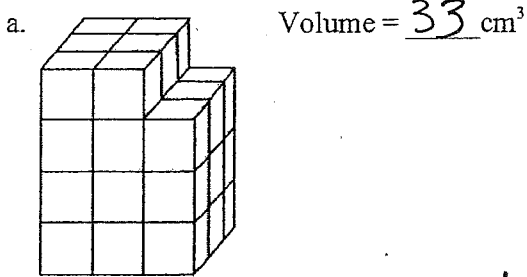
a. Volume = *24* cm³

b. Volume = *30* cm³

24 + 6

10. Find the volume of each stack of centimeter cubes.

a. Volume = $\underline{33}$ cm³

b. Volume = $\underline{60}$ cm³

4

3

5

$(5 \times 4) \times 3 = 60$

11. Choose the best estimate for the mass of the object.
Would a horse have mass of about (300 kilograms) or 300 grams?

12. Choose the most reasonable estimate for the following objects:
a. a glass of water
b. a comb
c. a lion

glass
[A] a. 0.1 oz
(b. 500 g)
c. 3 kg

Comb
[B] (a. 10 oz)
b. 50 g
c. 300 kg

lion
[C] a. 100 oz
b. 0.5 g
(c. 30 kg)

13. There are 5 blue, 1 green, and 4 red marbles in a bag. Choose one of the probability terms listed below to describe the likelihood of each event.

impossible   certain   very unlikely   likely

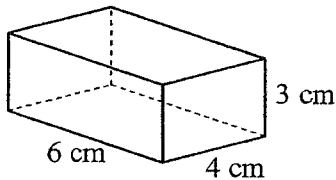Without looking:

a. a green marble will be pulled from the bag.   very unlikely

b. a blue marble will be pulled from the bag.   likely

c. a marble will be pulled from the bag.   certain

d. an orange marble will be pulled from the bag.   impossible

14. Calculate the volume of each rectangular prism.

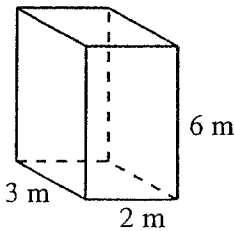> Volume of rectangular prism = Area of base × height

$V = B \times h$

a.

3 cm

6 cm   4 cm

Volume = __72__ cm³

Number model: 6*4*3=72

24
× 3
2

b.

6 m

3 m
2 m

Volume = __36__ cm³

Number model: (3*2)*6= 36

15. Add.
   a. $17 + (-5) =$ __12__
   b. $(-21) + 2 =$ __-19__
   c. __-19__ $= -6 + (-13)$
   d. __0__ $= 5 + (-5)$

Make a # line ↓

0

16. Subtract.
    a. $14-(-8)=$ __22__
    b. $-24-(+9)=$ __-33__
    c. __1__ $=-2-(-3)$
    d. __18__ $=13-(-5)$

17. Subtract.
    a. $16-(-8)=$ __24__
    b. $-19-(+9)=$ __-28__
    c. __1__ $=-7-(-8)$
    d. __11__ $=19-(-8)$

Multiply. Be sure to include the decimal point in your answer.

18. $6.2*26=$ __161.2__

$$
\begin{array}{r}
6.2 \\
\times 26 \\
\hline
372 \\
+1240 \\
\hline
161.2
\end{array}
$$

19. __57.85__ $=0.89*65$

$$
\begin{array}{r}
0.89 \\
\times 65 \\
\hline
445 \\
+5340 \\
\hline
57.85
\end{array}
$$