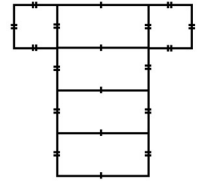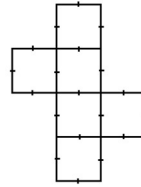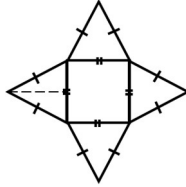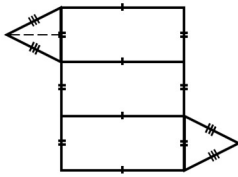**Math 6 - Unit 5:** Area & Volume
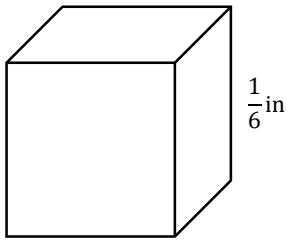
End of Unit Test Study Guide

Name: _____

Class Period: 1   2   3   4   Date: _____

1) How could you determine the surface area of a triangular prism?

2) Is painting your house a real world example of surface area or volume?
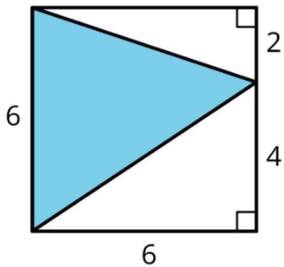
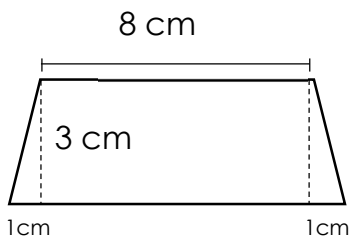3) What shape is formed by folding the following nets?

4)	
$\frac{1}{6}$ in	**Volume of the Cube:** _____
5) Find the area of the shaded region. 6 2 4 6	**Area:** _____
6) 8 cm 3 cm 1cm 1cm	**Area:** _____

7)

5m

11m

4m

13m

Area: _____

8)

19 cm

5 cm

10 cm
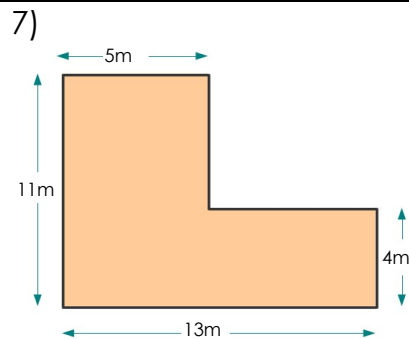
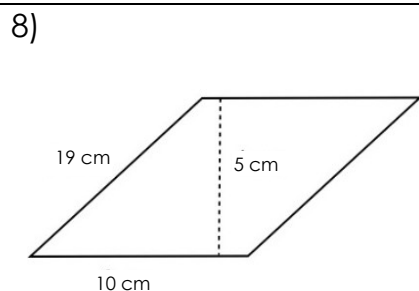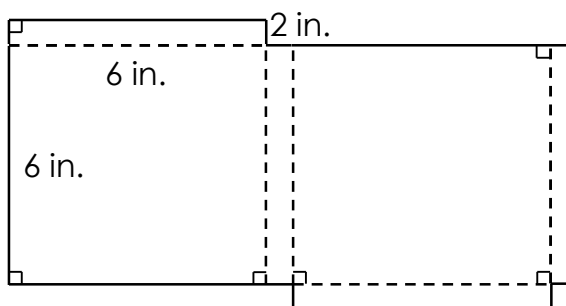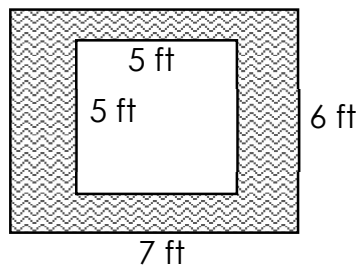**Area:** _____

9) A box is covered with wrapping paper with no overlap. The net of the box is shown below.

How many square inches of wrapping paper is needed to cover the surface area of the box?
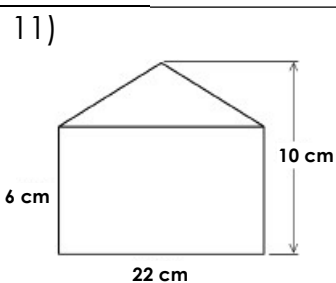

2 in.

6 in.

6 in.

Surface Area: _____

10) What is the area of the shaded frame?

5 ft

5 ft

6 ft

7 ft

Area: _____

11)

10 cm

6 cm

22 cm

Area: _____

12)

40 m

10 m

18 m
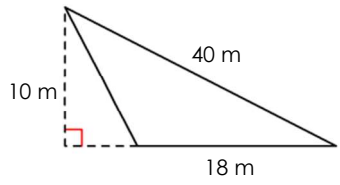
Area: _____

13) A fish tank is shown below. How many cubic inches of water can fit inside the tank?

4 ½ in.

12 in.

10 in.

Volume: _____

14)

6 cm

4 cm

5 cm
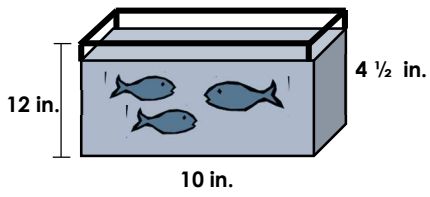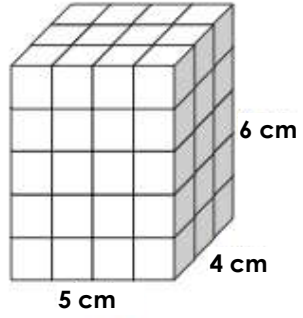
Total Square cm needed to wrap the outside of the box:

Surface Area: _____

15)

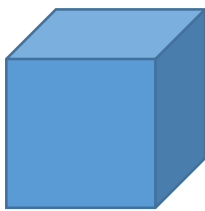5 cm   5 cm

3 cm

15 cm

4 cm
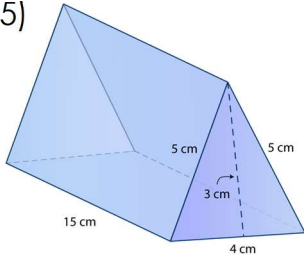
Surface Area: _____

16) How much paper is needed to wrap a cube with a side length of 10 cm?

17) Draw 2 different nets that could be folded to make a cube.

18) A rectangular pool is 10 feet long, 14 ½ feet wide, and 6 feet deep. How many cubic feet of water can it hold?

19) Give a real world example of something that relates to volume.

20) If carpet costs $5 per square yard, how much would it cost to carpet a rectangular room that is 4.5 yards wide and 15 yards long?

21) How many 2 in cubes can fit inside an 8 in cube?

2 in

8 in