Name_____ Date_____

Geometry – Volume of Prisms

Find the volume. Show all work.

1)

10 cm

2 cm

8 cm

2)

10 in.

6 in.

8 in.

10 in.

16 in.

3)

10 ft

10 ft

4 ft

4)

4 m

12 m

18 m

5)

24 in.

40 in.

10 in.
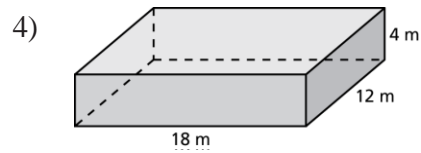
26 in.

6)

12 cm

16 cm

4 cm

20 cm

7)

13 in.

5 in.

2 in.

12 in.

8)

18 cm

10 cm

10 cm

4 cm

34 cm

6 cm
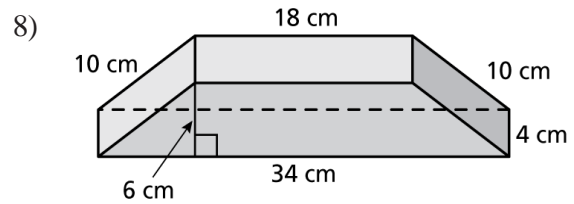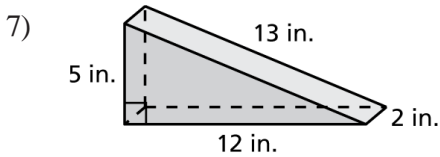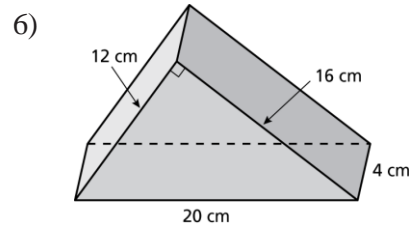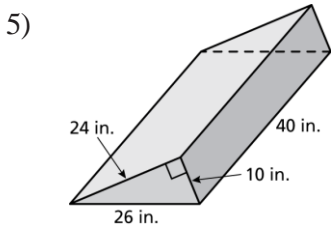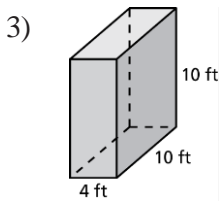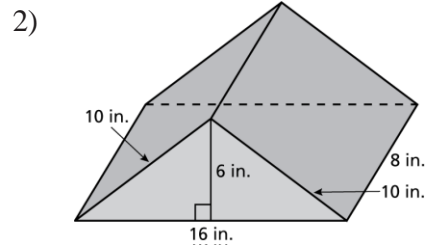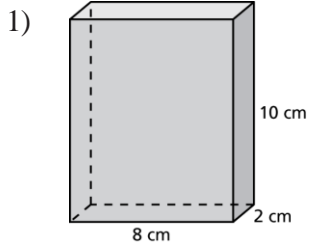
Make a sketch of the rectangular prism with the given dimensions. Then find its volume.

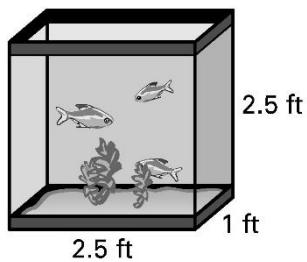9) length = 2 in., width = 2 in., height = 3 in.

10) length = 5 cm, width = 6 cm, height = 7 cm

Find the height of the rectangular prism. Show all algebraic work.

11) $V = 120 \text{ mm}^3$
   $\ell = 5$ mm
   $w = 8$ mm
   $h = $ _____

12) $V = 720 \text{ ft}^3$
   $\ell = 10$ ft
   $w = 8$ ft
   $h = $ _____

13) Find the volume of the aquarium shown.

2.5 ft

1 ft

2.5 ft

14) You are building the steps shown below. How many cubic inches of concrete will you need to make the steps?

8 in.

8 in.

36 in.

10 in. 10 in.