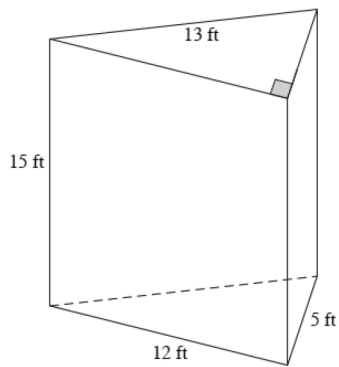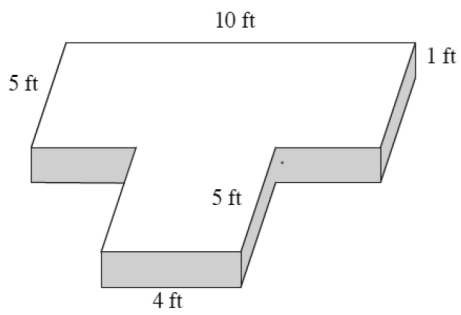# Surface Area

Determine and explain how to find the surface area of the following right prisms.
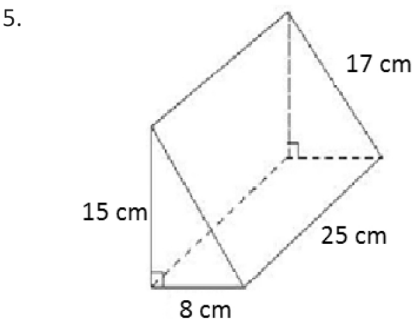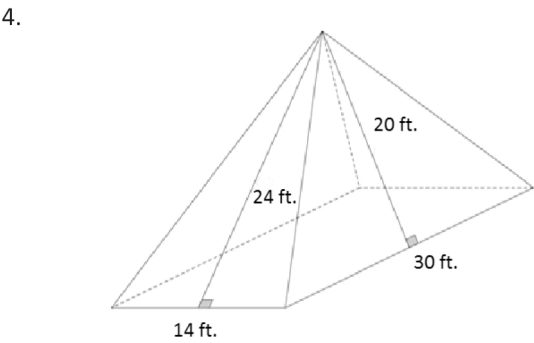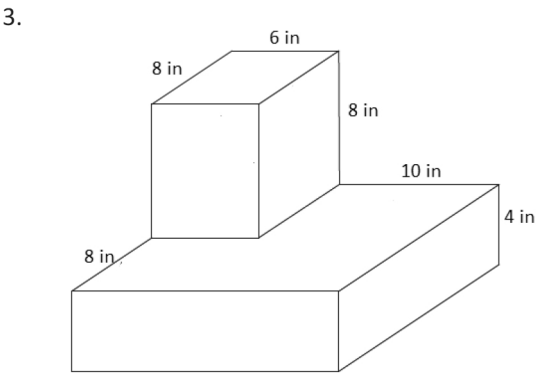
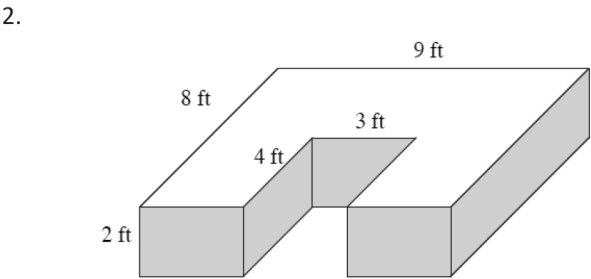1.

2.

Determine the surface area of the figures.

1.

9 cm

4.5 cm

4 cm

9 cm

4 cm

9 cm

2.

9 ft

8 ft

3 ft

4 ft

2 ft

3.

6 in

8 in

8 in

10 in

4 in

8 in

8 in

4.

20 ft.

24 ft.

30 ft.

14 ft.

5.

17 cm

15 cm

25 cm

8 cm
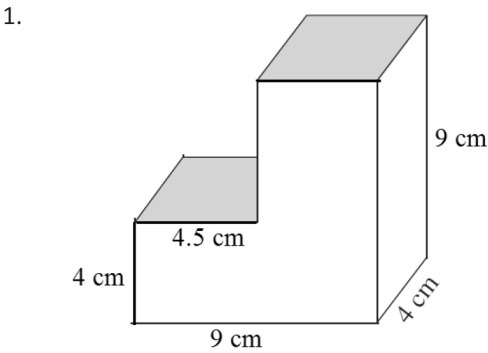
Determine and explain how to find the surface area of the following right prisms.

1.
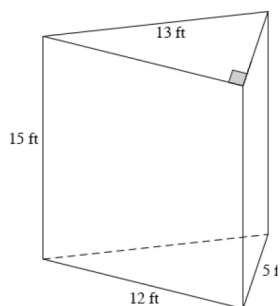
Area of top and bottom: —

Area of front:

Area seen from left:

13 ft

15 ft

12 ft
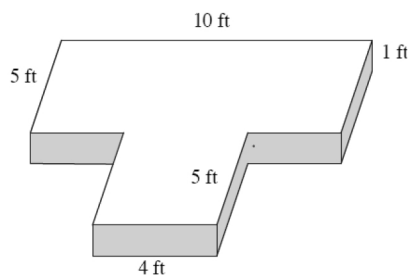
5 t

Area seen from right:

Surface Area:

To find the surface area of the triangular prism, I must sum the areas of two triangles (the bases that are equal in area) and the areas of three different sized rectangles.

2.

10 ft

5 ft

1 ft

5 ft

4 ft

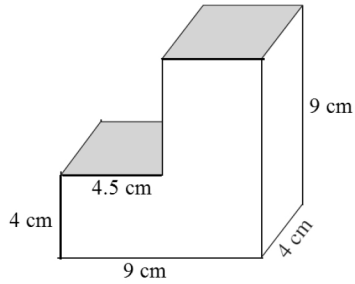*Area of front and back:*

Area of sides:

Area of top and bottom:

Surface Area:

To find the surface area of the prism, I must sum the composite area of the bases with rectangular areas of the sides of the prism.
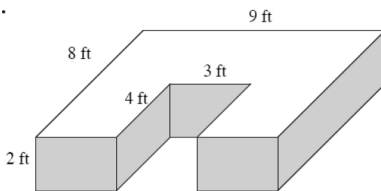
Determine the surface area of the figures.

1.

Area of top and bottom:

Area of left and right sides:

Area of front and back:

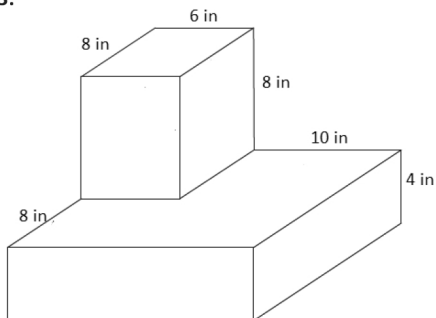Surface area:

2.

Area of front and back:

Area of sides:

Area of top and bottom:

Surface area:

3.

Surface Area of Top Prism:
Area of top:

Area of front and back sides:

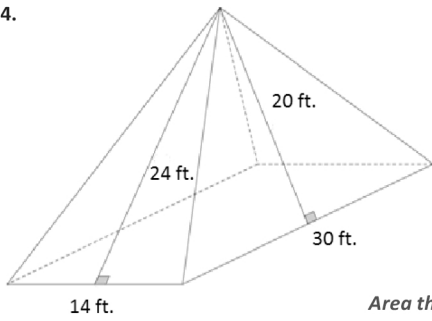Area of left and right sides:

Surface Area of Bottom Prism:
Area of top:

Area of bottom:

Area of front and back sides:

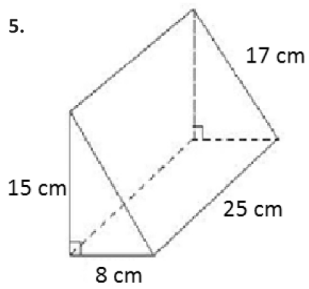Area of left and right sides:

Surface area:

4.

20 ft.

24 ft.

30 ft.

14 ft.

Area of the rectangle base:

Area of the triangular lateral sides:
Area of front and back: _

_

Area that can be seen from left and right: _

_

Surface area:

5.

17 cm

15 cm

25 cm

8 cm

Area of front and back: _

Area of bottom:

Area that can be seen from left side:

Area that can be seen from right side:

Surface area: