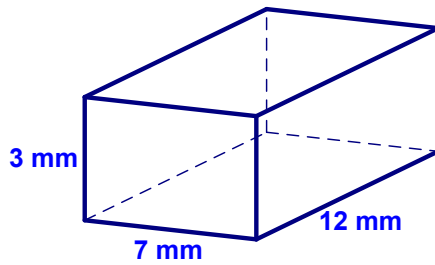1a.

Find the total surface area of the rectangular right prism shown.
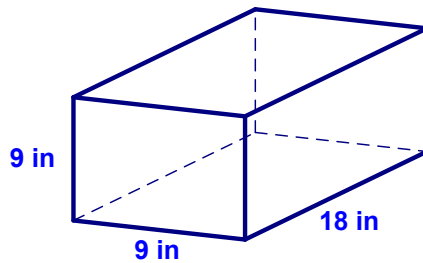
10 cm

15 cm

5 cm

1b.

Find the total surface area of the rectangular right prism shown.
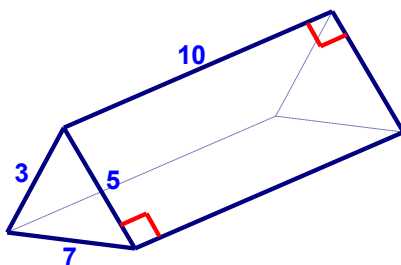
3 mm

12 mm

7 mm

1c.

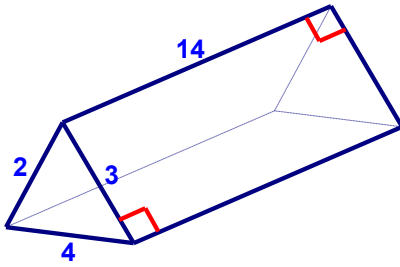**Find the total surface area of the rectangular right prism shown.**

9 in

18 in

9 in

2a.

Find the lateral area of the triangular right prism shown
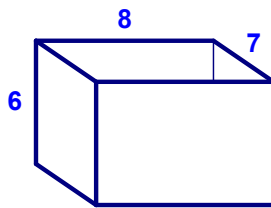
10

3

5

7

2b.

Find the lateral area of the triangular right prism shown
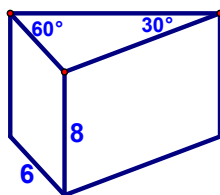
14

2   3

4

6a.

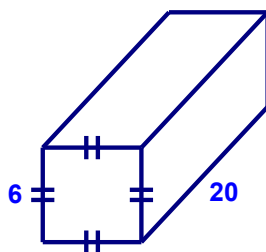**Find the total area of the pieces of cardboard needed to construct the *open* box shown**

8

7

6

6b.

Find the total area of the pieces of cardboard needed to construct the *open* box (there is no top) shown
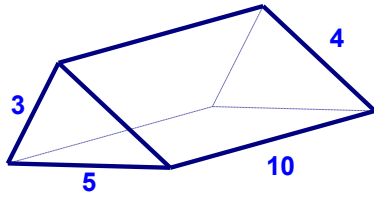
60°   30°

8

6

7a.

Find the lateral area and the total area of the square right prism shown
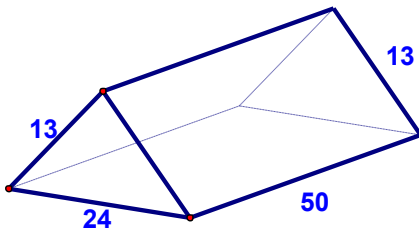
6   20

7b.

Find the lateral area and the total area of the triangular right prism shown
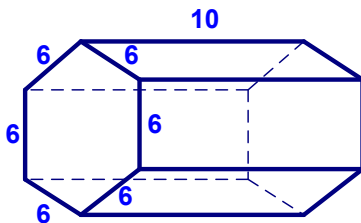

7c.

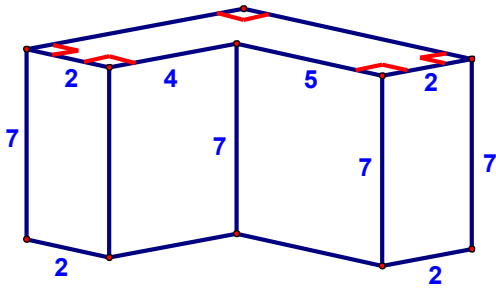**Find the lateral area and the total area of the isosceles triangular right prism shown**

7d.

Find the lateral area and the total area of the regular hexagonal right prism shown
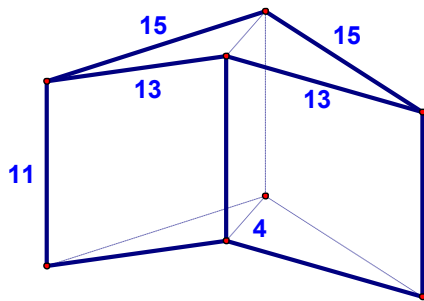
8.

Find the area of the right prism shown

9.

Find the lateral area and the total area of the right prism shown

10.

The perimeter of the scalene base of a pentagonal right prism is 17, and a lateral edge of the prism measures 10. Find the prism's lateral area.

11.

A 6-inch cube is painted on the outside and cut into 27 smaller cubes.

a. **How many of the small cubes have six faces painted? Five faces painted? Four faces painted? Three faces painted? Two faces painted? One face painted? No face painted?**

b. **If one of the small cubes is selected at random, what is the probability that it has at least two painted faces?**

c. **What is the total area of the unpainted surfaces?**