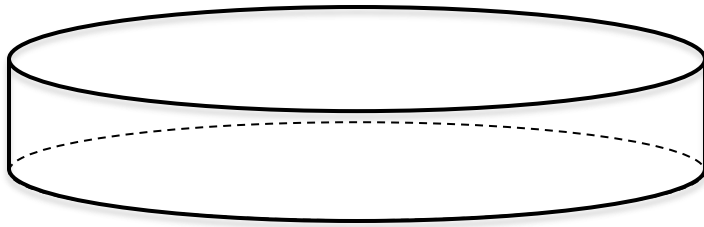Name_____ Date _____

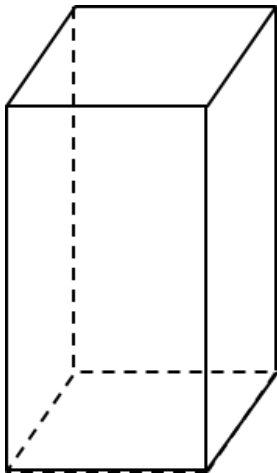## Determining Area and Surface Area
Independent Practice

For questions 1 – 3, shade the base(s) of the given figure, name the figure, and write the formula used to find the lateral surface area and total surface area of each.
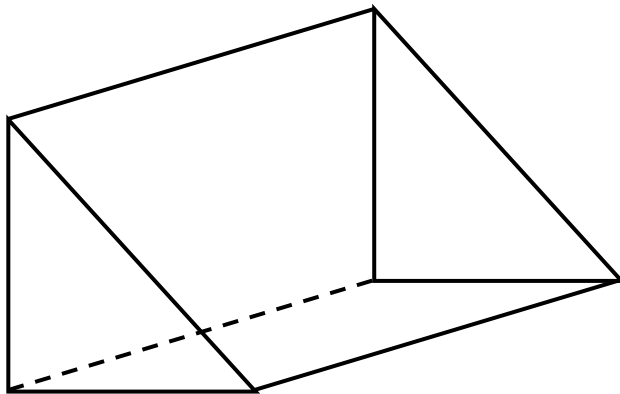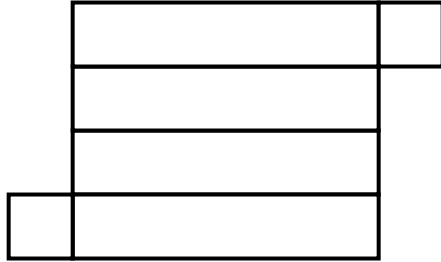
1

2

3

For questions 4 – 6 below, identify the figure created using the given net.
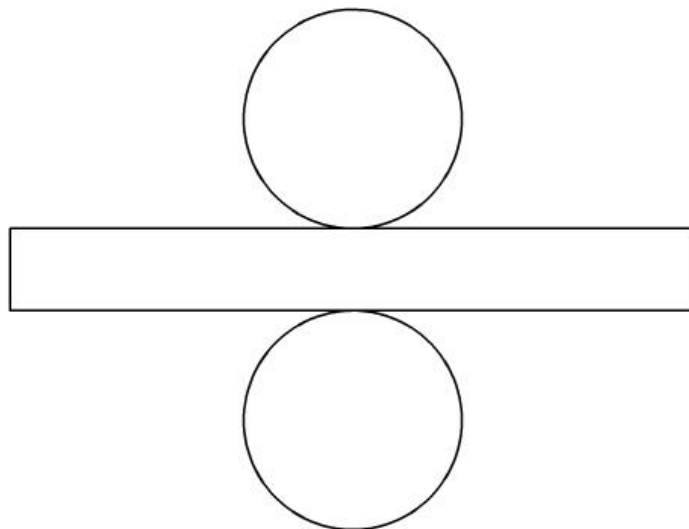
4

5
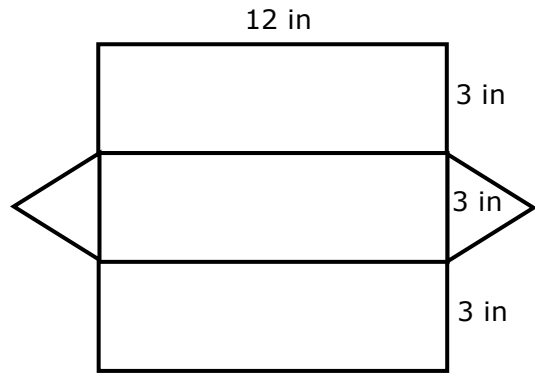

6

Name_____ Date _____

For questions 7 – 10, calculate the surface area, either lateral or total, as requested on each problem.

7 Lateral Surface Area: _____

12 in

3 in

3 in

8 Total Surface Area: _____

3 in

9 Lateral Surface Area: _____
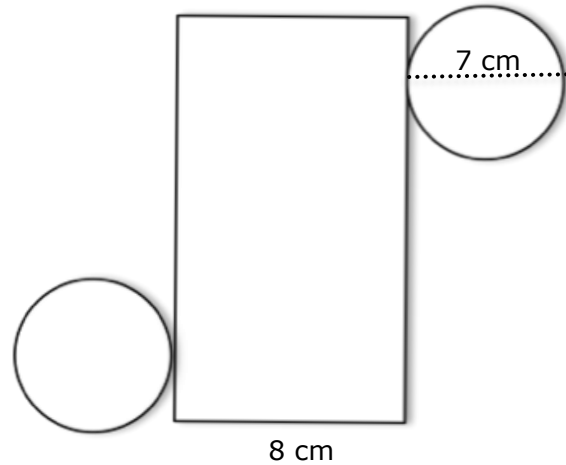
7 cm

10 Total Surface Area: _____
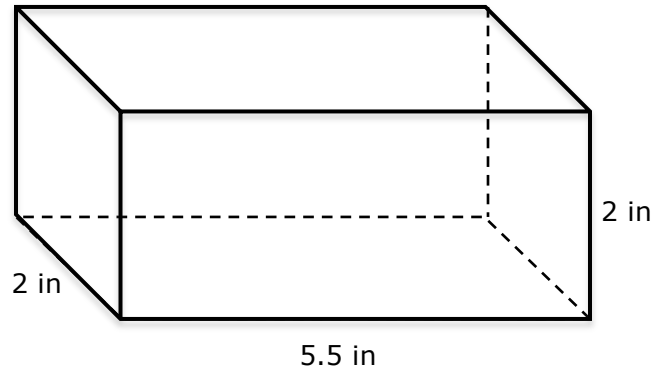
8 cm

For questions 11 - 14, calculate the surface area, either lateral or total, as requested on each problem.

11 Lateral Surface Area: _____
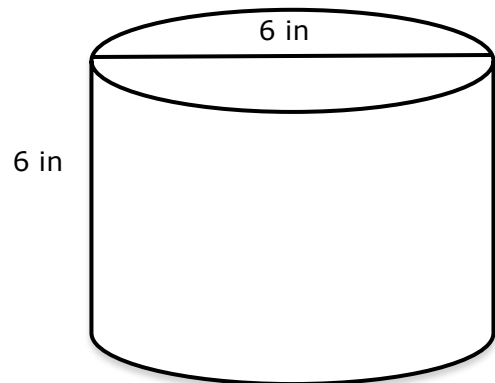
12 Total Surface Area: _____

2 in

2 in

5.5 in

13 Lateral Surface Area: _____

6 in

6 in

14 Total Surface Area: _____

Name_____ Date _____

Answer question 15 below.

15 Joseph plans to paint the outside of his doghouse, not including the floor. The doghouse is in the shape of a pentagonal prism, as demonstrated by the diagram below. If the paint cost $0.10 per square foot, what is the total cost for Joseph to paint his doghouse?

$2\frac{1}{2}$ ft

2 ft

$4\frac{1}{2}$ ft

$1\frac{1}{4}$ ft

$1\frac{1}{2}$ ft