Name:_____ Block:_____ Date:_____

# Section 10-4 and 10-5: *Surface area of Geometric Solids*

Surface Area:_____
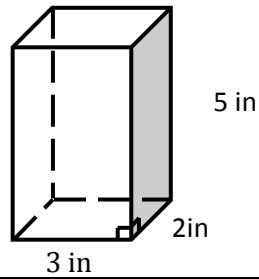
S=_____    B=_____    L=_____    P=_____    ℓ=_____
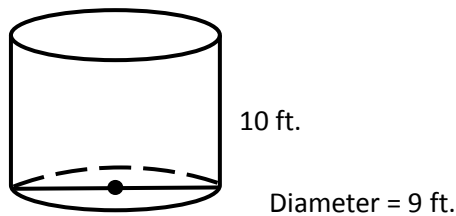
**PRISMS & CYLINDERS**

General Formula:

- Lateral Area:_____
- Total Surface Area:_____

1)



5 in

2in

3 in

| Area of base: | Lateral area: |
|---|---|
| Answer _____ | Answer _____ |
| Total Area: | |
| Answer _____ | |

2)



10 ft.

Diameter = 9 ft.

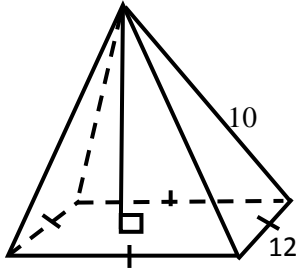| Area of base: | Lateral area: |
|---|---|
| Answer _____ | Answer _____ |
| Total Area: | |
| Answer _____ | |

**PYRAMIDS & CONES**

General Formula:

- Lateral Area: _____
- Total Surface Area:_____

3)

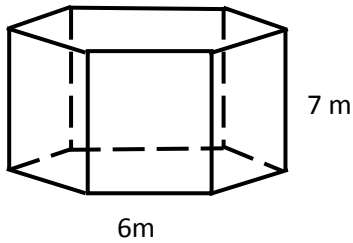| Area of base | Lateral area |
|---|---|
| Total Area | |

4)
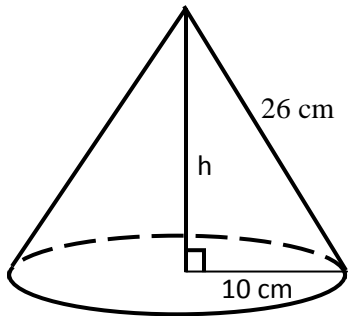
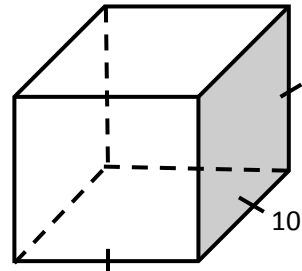| Area of base | Lateral area |
|---|---|
| Total Area | |

# CHAPTER 10 - DAY 2 HOMEWORK

1)  NAME:_____

7 m

6m
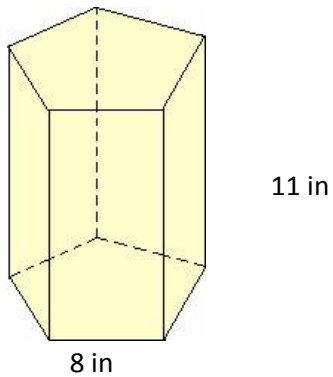
Base Area: _____
Lateral Area: _____
Total Area: _____

2)  NAME:_____

10

Base Area: _____
Lateral Area: _____
Total Area: _____

3)  NAME:_____

11 in

8 in

Base Area: _____
Lateral Area: _____
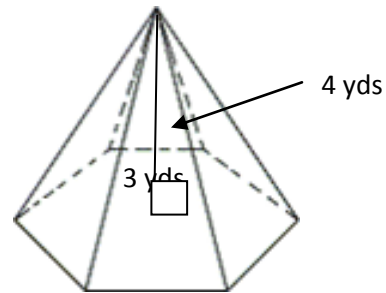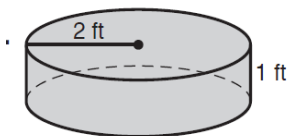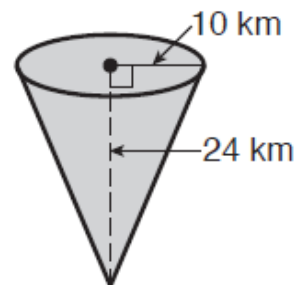Total Area: _____

4)  NAME:_____

4 yds

3 yds

Base Area: _____
Lateral Area: _____
Total Area: _____

5)  NAME:_____

2 ft

1 ft

Base Area: _____
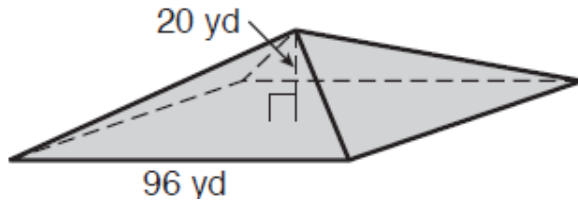Lateral Area: _____
Total Area: _____

6)  NAME:_____

10 km

24 km

Base Area: _____
Lateral Area: _____
Total area Area: _____
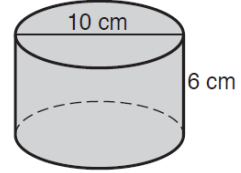
7)

NAME:_____

20 yd

96 yd

Base Area: _____
Lateral Area: _____
Total Area: _____

8)

NAME:_____

10 cm

6 cm

Base Area: _____
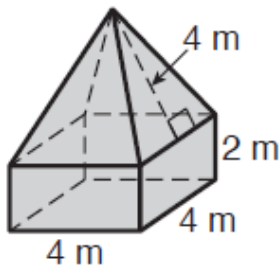Lateral Area: _____
Total Area: _____

## Bonus Problems:

*Find the Surface Area of the following:*

9)  a right cone with base circumference $14\pi$ ft and slant height 3 times the radius

10)  a cylinder with base area $169\pi$ ft$^2$ and a height twice the radius

## COMPOSITE FIGURES:

11)

4 m

2 m

4 m

4 m

12)

**8.**

4 in.

4 in.

3 in.

5 in.

2 in.