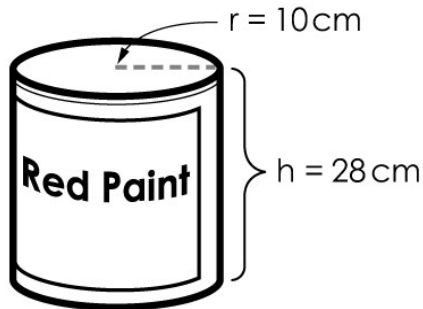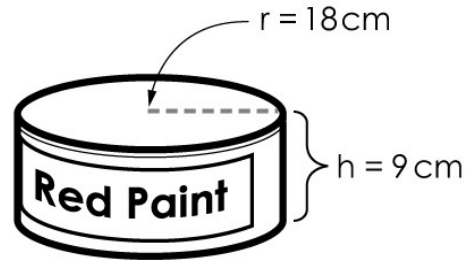Name: _____

Cylinder Volume Questions

Pictured below are two cylindrical cans of paint. Answer the questions.

r = 10cm

Red Paint

h = 28 cm

Can A

r = 18cm

Red Paint

h = 9 cm

Can B

1. What is formula for finding the area of a circle?

1. _____

2. What is the formula for finding the volume of
    a cylinder?

2. _____

3. What is the value of pi, rounded to
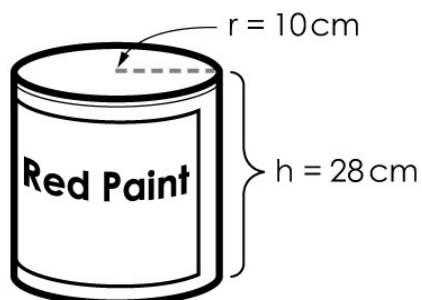   the nearest hundredth?

3. _____

9. What is the height of Can A?

9. _____

10. What is the height of Can B?

10. _____

11. Which has a greater height: Can A or Can B?

11. _____

12. What is the volume of Can A?
    (Show your work on the back of this page. Include units in your answer.)

12. _____

13. What is the volume of Can B?
    (Show your work on the back of this page. Include units in your answer.)

13. _____

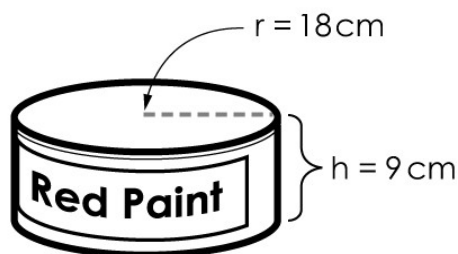14. Which holds more paint: Can A or Can B?

14. _____

Cylinder Volume Questions

Pictured below are two cylindrical cans of paint. Answer the questions.

r = 10 cm

r = 18 cm

Red Paint

h = 28 cm

Red Paint

h = 9 cm

Can A

Can B

1. What is formula for finding the area of a circle?

$A = \pi r^2$

2. What is the formula for finding the volume of
    a cylinder?

$V = \pi r^2 h$

3.

4.

5.

6.

7.

8.

9.

10

11

12

13

14