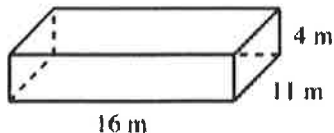


Note: This cannot be used during the test.

Chapter 12 PRACTICE Test

1. Find the volume of the rectangular prism.



Answer: _____

2. Johannes is building a square sandbox with sides 3 feet long. He wants to put sand 1.05 feet deep in the box. How many cubic feet of sand should Johannes order?

Answer: _____

3. Find the *height* of the rectangular prism.

$V = 572$ cubic feet

$l = 8$ feet

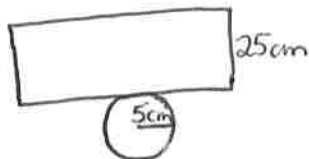
$w = 11$ feet

$h = ?$

Answer: _____

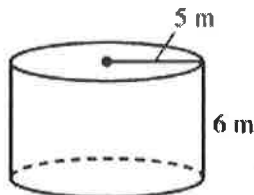
ANSWERS:

6) part 1:

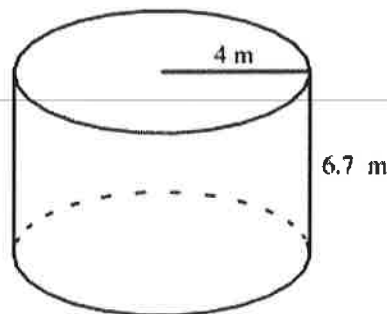


part 2: B

4. Draw a net for the cylinder and label the dimensions.



5. Find the surface area of the cylinder.
Use 3.14 for π . Round your answer to the nearest tenth.



Answer: _____

ANSWERS:

- 7) 452.16 in³
8) 1.5 ft

6. In pottery class Herbert made a cylindrical vase that is 25 cm tall. Its base has a radius of 5 cm. He wants to paint the outside of the vase. (The top of the vase is open.)

1) Draw a net for the vase here:

2) Which formula below would be used to find how many square centimeters Herbert will have to paint? (The top of the vase is open.)

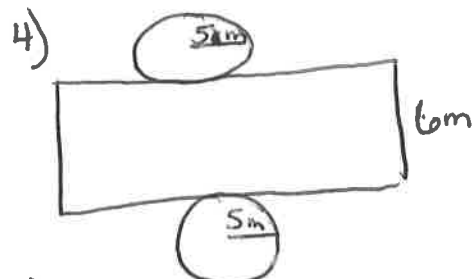
- a. $2\pi r^2 + 2\pi rh$
- b. $\pi r^2 + 2\pi rh$
- c. $2\pi rh$
- d. $\pi r^2 h$

ANSWERS

1) 704 m^3

2) 9.45 ft^3

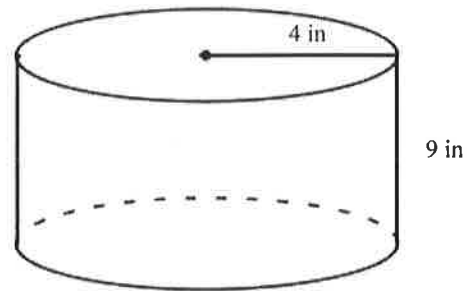
3) 6.5 ft



5) 268.8 m^2

Find the volume of the cylinder. Use 3.14 for π . The figure is not drawn to scale.

7.



Answer: _____

Find the unknown height of the cylinder. Use 3.14 for π .

8. $V = 301.44 \text{ ft}^3$
 $r = 8 \text{ ft}$
 $h = ?$

Answer: _____