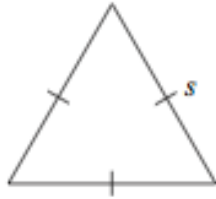


Grade 9 EQAO Questions (from the 2010-2011 Academic Assessment)

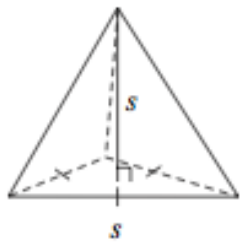
- align w/ Gr. 8 M Measurement Relationships expectation(s)

1 Which of the following has a volume that can be represented by s^3 ?

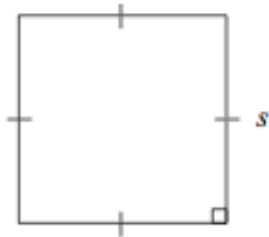
a



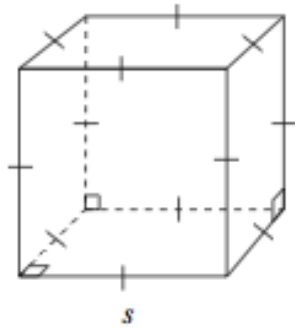
b



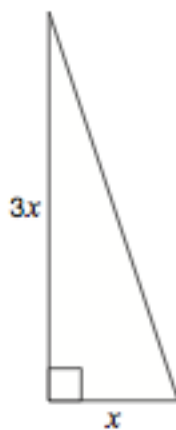
c



d



- 4 Luke designs a garden in the shape of a right triangle as shown below.



The total area of the garden is 96 m^2 .

Hint:

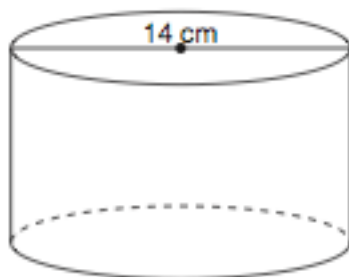
$$A = \frac{1}{2}bh$$

Which is closest to the value of x in the diagram?

- a 6 m
- b 8 m
- c 32 m
- d 64 m

6 How High Is It?

The cylinder pictured below has a surface area of 660 cm^2 .

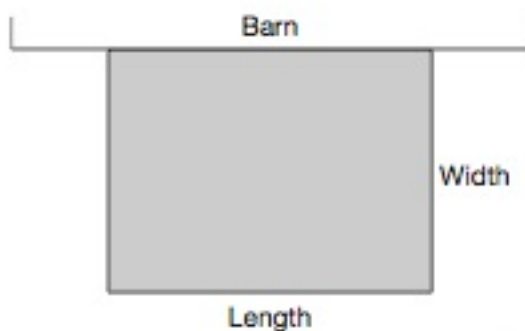


Use the following formula to determine the height of the cylinder:

$$\text{Surface area} = 2\pi r^2 + 2\pi rh$$

Show your work.

- 24** Tom uses fencing to create a rectangular horse enclosure. He uses the side of a barn as one of the sides of the enclosure.



Tom has 48 metres of fencing to use for the three sides of the rectangular enclosure.

Which set of dimensions will use the entire 48 m of fencing?

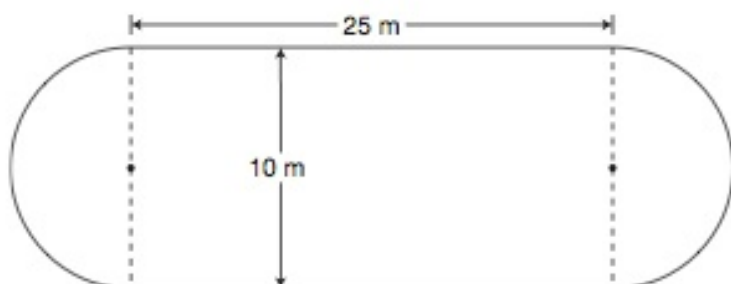
- a width is 8 m, length is 6 m
- b width is 12 m, length is 12 m
- c width is 24 m, length is 12 m
- d width is 12 m, length is 24 m

- 27** A cylinder has a volume of $400\pi \text{ cm}^3$ and a diameter of 20 cm.

Which of the following is closest to the height of the cylinder?

- a 1 cm
 - b 4 cm
 - c 20 cm
 - d 40 cm
- 30 Building an Ice Rink**

Jake builds an ice rink as shown below.



Determine the perimeter of the rink.

Show your work.