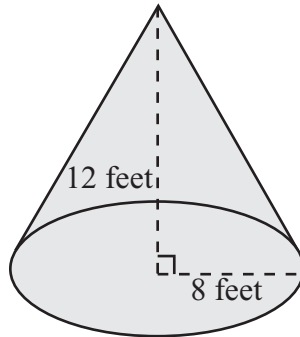


Session 1, Multiple-Choice Questions



- 1 The cone shown below has a radius of 8 feet and a height of 12 feet.



What is the volume of the cone?

- A. 32π cubic feet
- B. 256π cubic feet
- C. 374π cubic feet
- D. 768π cubic feet

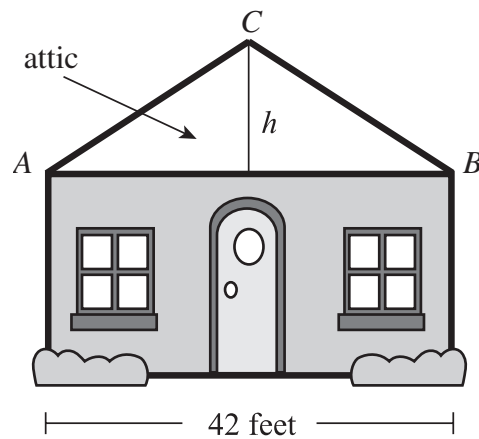
Reporting Category for Item 1: **Measurement**

- 2 Darlene went to the hardware store to purchase 581 feet of rope. The rope costs \$0.61 per yard. Which is **closest** to the amount of money Darlene needs to purchase the rope?
- A. \$100.00
 - B. \$120.00
 - C. \$360.00
 - D. \$1080.00

Reporting Category for Item 2: **Number Sense and Operations**

Mathematics, Grade 10

- 3 The figure below shows a house with an attic, represented by $\triangle ABC$ with $AC = BC$. The distance from A to B is 42 feet. The slope (commonly referred to as the pitch) of the roof is $\frac{2}{3}$.



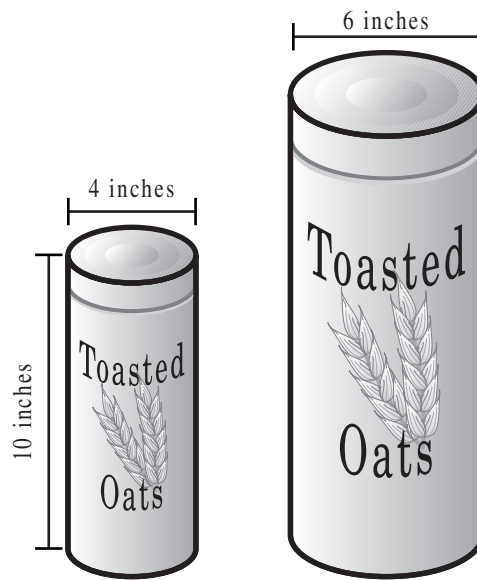
What is the height, h , of the attic?

- A. 14 feet
- B. 28 feet
- C. 32 feet
- D. 63 feet

Reporting Category for Item 3: *Number Sense and Operations*

Mathematics, Grade 10

- 4 A company packages breakfast cereal in the two sizes of right cylindrical containers shown below. The containers are similar in shape.



How many cubic inches does the large container hold?

- A. 90π cubic inches
- B. 135π cubic inches
- C. 360π cubic inches
- D. 540π cubic inches

Reporting Category for Item 4: **Measurement**