

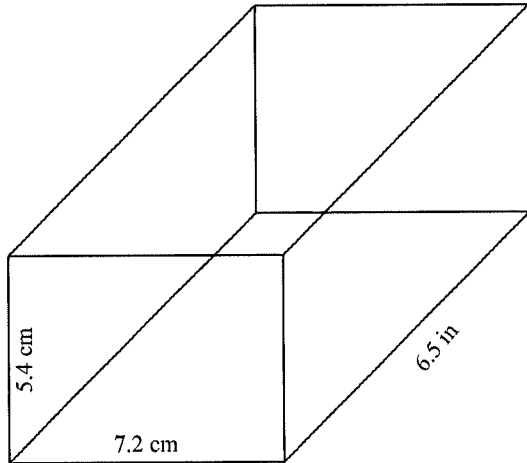




Name: \_\_\_\_\_

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\_\_\_\_ 12. Find the volume of the rectangular prism below, in  $\text{cm}^3$ .



- a.  $708.5 \text{ cm}^3$
- b.  $252.7 \text{ cm}^3$
- c.  $493.6 \text{ cm}^3$
- d.  $641.5 \text{ cm}^3$

\_\_\_\_ 13. A garden has an area of  $24 \text{ yd}^2$ . It is covered in topsoil that is 3 in deep. What is the volume of topsoil used, in  $\text{yd}^3$ ?

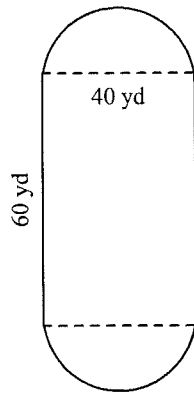
- a.  $72 \text{ yd}^3$
- b.  $2 \text{ yd}^3$
- c.  $6 \text{ yd}^3$
- d.  $24 \text{ yd}^3$

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**Short Answer**

1. Find the distance Lori runs if she completes 9 laps of this track.



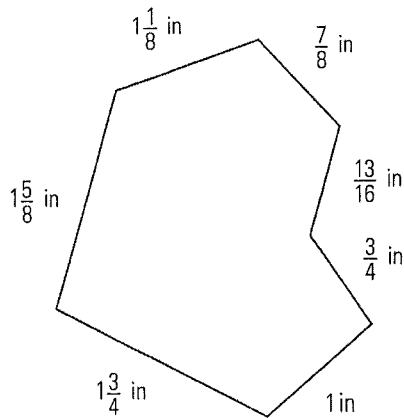
2. A fish tank measures 5 ft by 39 in by 27 in. For the best health of the fish, the tank should only be 75% full. What volume of water should the tank hold, in cubic feet?

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**Problem**

1. What is the perimeter of this figure?



2. Allannah can kick a rugby ball 72 feet. Cory is standing 27 metres away. Will the ball reach Cory?

3. Sandro enjoys modelling famous buildings. He has decided to make a scale model of the square-based Pyramid of Khafre, one of the ancient Egyptian Pyramids of Giza.

Sandro knows the pyramid had a base length of 706 ft and a slant length of 589 ft.

- a) What is the surface area of the pyramid? Don't include the bottom of the pyramid.

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4. Paula owns an *American* manufactured car that has a fuel capacity of 13 gallons. She wishes to fill up her tank before leaving on a long trip. Her tank is currently  $\frac{5}{8}$  full. Gas costs \$1.18/L. What will it cost her to fill up?