



CTSC MATHS THINKER

Grade 4 - Perimeter, Area & Volume

This week we will be exploring PERIMETER VOLUME AND AREA with the Grade 4 learners. Scroll through the images for the questions and images linked to the questions.

QUESTIONS:

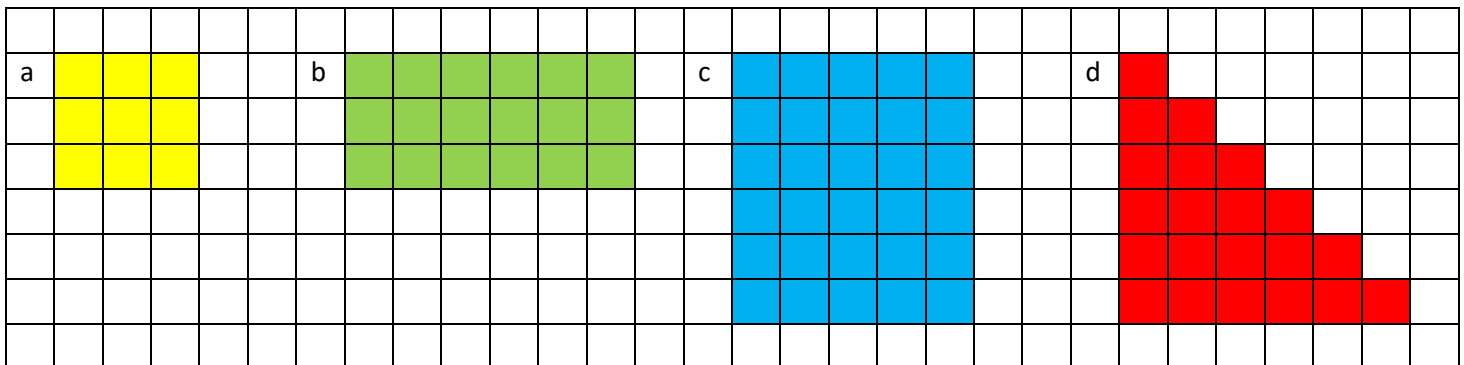
PERIMETER

1. If you had to build a fence around your back yard, which measure would you use to find the amount of fencing needed?
 - a) Circumference
 - b) Volume
 - c) Perimeter
 - d) Area
2. Tasneem is measuring a square tile. One side of the tile is 45cm. What is the perimeter of the tile?
3. Side BC measures 24m. Side CD measure half of BC. What is the perimeter of this shape?
4. Jamey has a rectangular bedspread that measures 250cm by 150cm. She wants to sew a ribbon around the edge of the bedspread. How much ribbon does she need in meters?

AREA

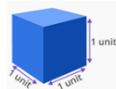
Below is a 1cm square grid

Find the area of each shape (remember to write area in cm^2)

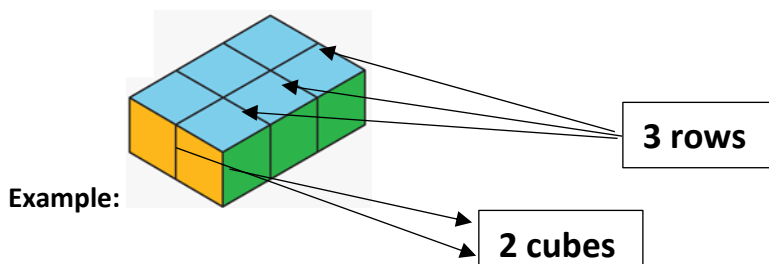


VOLUME

Count the unit cubes and



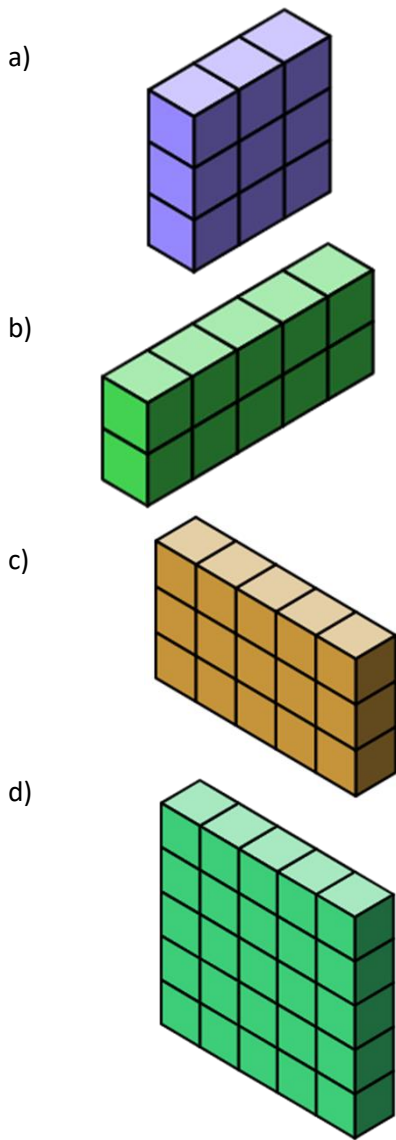
find the volume of each rectangular prism



Example:

$$2 \times 3 = 6$$

The volume is 6 cubic units



MEMORANDUM

Perimeter

1. Perimeter

2. $45 \times 4 = 180 \text{ cm}$ or $45 + 45 + 45 + 45 = 180 \text{ cm}$

3. $(24 \times 2) + (12 \times 2)$
 $= 48 + 24$
 $= 72 \text{ m}$

OR $24 + 24 + 12 + 12 = 72 \text{ m}$

4. $(250 \times 2) + (150 \times 2)$
 $= 500 + 300$
 $= 800 \text{ cm} \rightarrow 8 \text{ m}$

OR $250 + 250 + 150 + 150 = 800 \text{ cm} \quad 8 \text{ m} \rightarrow$

Area

a) 9 cm^2

b) 18 cm^2

c) 30 cm^2

d) 21 cm^2

Volume

a) $3 \times 3 = 9$

The volume is 9 cubic units

b) $2 \times 5 = 10$

The volume is 10 cubic units

c) $3 \times 5 = 15$

The volume is 15 cubic units

d) $5 \times 5 = 25$

The volume is 25 cubic units