Volume of a Triangular Prism

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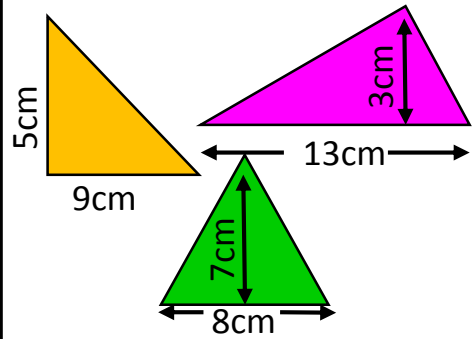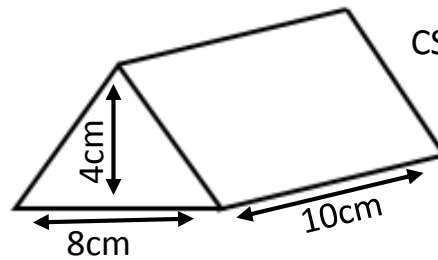## ROK (Retention of Knowledge)

Find the area of the following shapes.

Stretch
Line AC=2.5m

5cm

3cm

13cm

9cm

7 cm

8cm

B

A   C

9 m

8 m

D
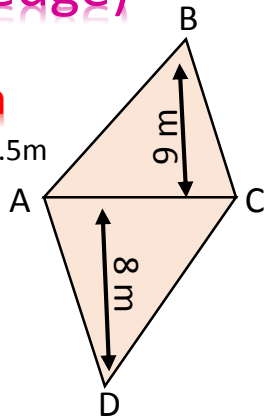
Memory

Step 1 - Cross Sectional Area (CSA)

4cm

8cm

10cm

$$CSA = \frac{b \times h}{2}$$
$$= \frac{8 \times 4}{2}$$
$$= \frac{32}{2}$$
$$= 16cm^2$$

Remember the units of Measure!

Step 2 - Volume

Volume $= 16 \times 10 = \mathbf{160cm^3}$

Stretch

4 cm

4 cm

3 cm

12.5 cm
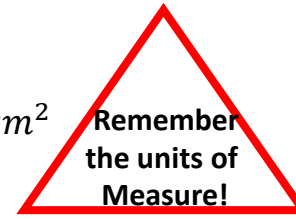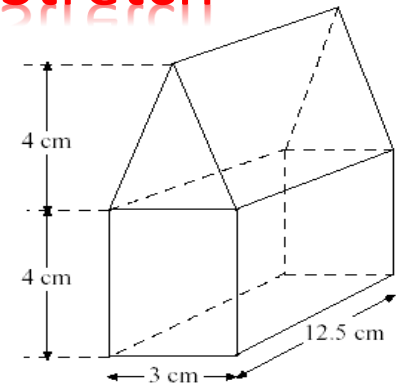
What is the volume of the model house above?
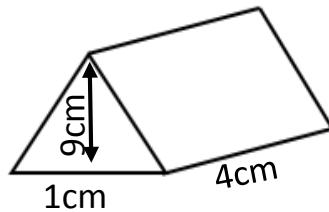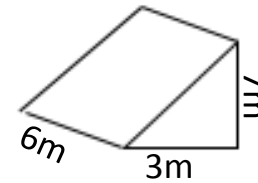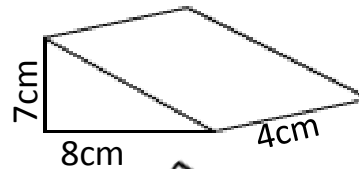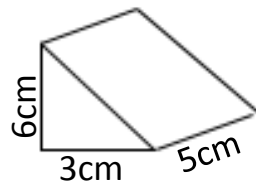
Literacy

The printer is on the blink. Fill in the blanks and also place capital letters and punctuation into the appropriate places so this paragraph makes sense.
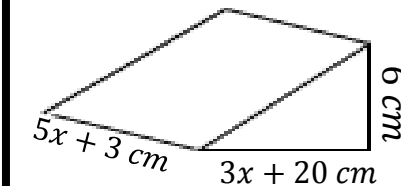
to find the volume of a triangular _____ you first need to find the cross sectional _____ to do this you use the formula _____ base _____ height to then find the volume of a _____ prism you _____ the CSA by the _____ .

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Skill 1 Find the volume of these shapes.

6cm

3cm   5cm

7cm

8cm   4cm

6m   3m

7m

9cm

1cm   4cm

7cm

4cm

30mm

82cm

4m

2.5m

5 cm

5 cm   5.8 cm

8 cm   6.3 cm
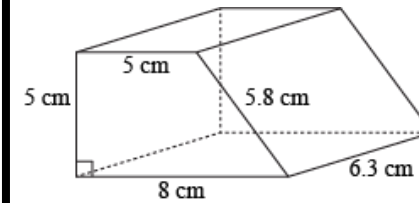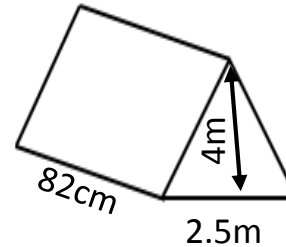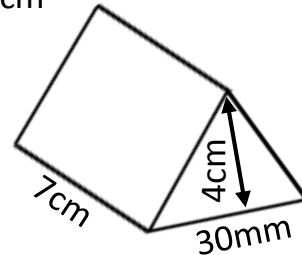
What is the volume of the trapezoid prism?

$5x + 3\ cm$

$3x + 20\ cm$

6 cm

Write an expression for the volume.

Skill 2

Find the missing lengths.

$V = 120\ cm^3$

8 cm

6 cm w

$V = 252\ m^3$

x

9 m

8 m

$V = 168\ cm^3$

7 cm

y 4 cm

$V = 100m^3$

z

10m

8m