

Examples



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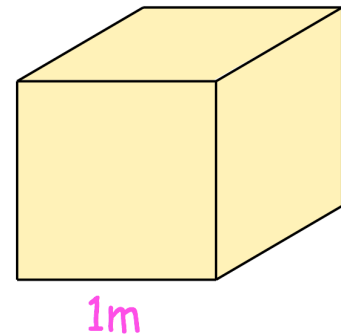


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Workout

Question 1: Shown is a cube with side length 1m

- (a) Find the volume of the cube in  $m^3$
- (b) What is the side length of the cube in cm?
- (c) Find the volume of the cube in  $cm^3$
- (d) Fill in the missing number using your answers to (a) and (c)



$$1m^3 = \boxed{\phantom{000}} cm^3$$

Question 2: Convert the following volumes into  $cm^3$

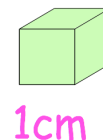
- (a)  $3m^3$
- (b)  $11m^3$
- (c)  $80m^3$
- (d)  $205m^3$
- (e)  $0.5m^3$
- (f)  $0.17m^3$
- (g)  $0.006m^3$
- (h)  $4,000m^3$

Question 3: Convert the following volumes into  $m^3$

- (a)  $7,000,000cm^3$
- (b)  $33,000,000cm^3$
- (c)  $190,000,000cm^3$
- (d)  $200,000cm^3$
- (e)  $45,000cm^3$
- (f)  $1,000,000,000cm^3$

Question 4: Shown is a cube with side length 1cm

- (a) Find the volume of the cube in  $cm^3$
- (b) What is the side length of the cube in mm?
- (c) Find the volume of the cube in  $mm^3$
- (d) Fill in the missing number using your answers to (a) and (c)



$$1cm^3 = \boxed{\phantom{000}} mm^3$$

Question 5: Convert the following volumes into  $\text{mm}^3$

- (a)  $6\text{cm}^3$                       (b)  $75\text{cm}^3$                       (c)  $300\text{cm}^3$                       (d)  $0.9\text{cm}^3$   
 (e)  $0.01\text{cm}^3$                       (f)  $0.008\text{cm}^3$                       (g)  $27.52\text{cm}^3$

Question 6: Convert the following volumes into  $\text{cm}^3$

- (a)  $4,000\text{mm}^3$                       (b)  $88,000\text{mm}^3$                       (c)  $500,000\text{mm}^3$                       (d)  $300\text{mm}^3$   
 (e)  $2\text{mm}^3$                       (f)  $100.5\text{mm}^3$                       (g)  $60,000,000\text{mm}^3$

Question 7: Convert  $2\text{m}^3$  to  $\text{mm}^3$

Question 8: Given  $1 \text{ litre} = 1000\text{cm}^3$   
 Convert each of the following into  $\text{cm}^3$

- (a) 2 litres                      (b) 9 litres                      (c) 30 litres                      (d) 18 litres  
 (e) 0.4 litres                      (f) 500ml                      (g) 7,500 litres                      (h) 330ml  
 (i) 15ml                      (j) 7.5ml                      (k) 1ml

Question 9: Convert each of the following into litres

- (a)  $5,000\text{cm}^3$                       (b)  $2,400\text{cm}^3$                       (c)  $20,000\text{cm}^3$                       (d)  $400\text{cm}^3$

### Apply

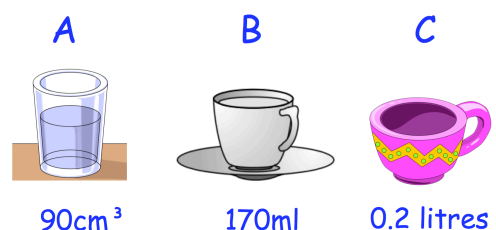
Question 1: Tommy has been asked to change  $2\text{m}^3$  into  $\text{cm}^3$   
 He says:

“since there are 100 centimetres in 1 metres, the answer is  $200\text{m}^3$ ”

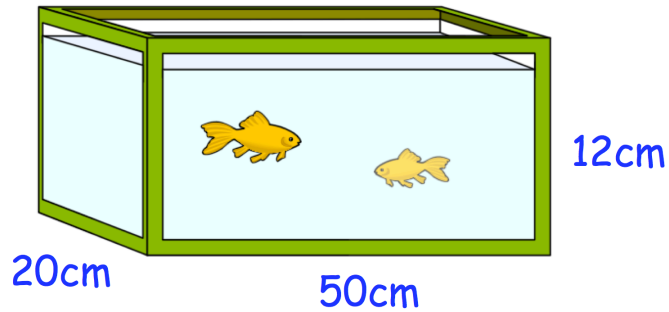
Explain why Tommy is incorrect.

Question 2: Shown below are three containers of water.  
 The amount of water in each is shown.

List the containers in order, from greatest to least.



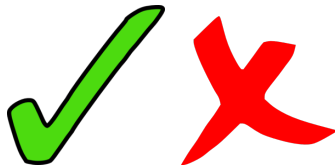
Question 3: Shown below is a fish tank.



The fish tank is emptied and then filled with clean water.  
The water is poured in at a rate of 25ml every second.  
How long will it take to fill the fish tank?

Question 4: A cube has a volume of  $0.008\text{m}^3$   
Work out the surface area of the cube.  
Give your answer in  $\text{cm}^2$

Answers



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