

Examples



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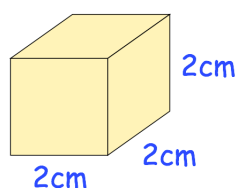


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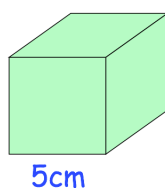
Workout

Question 1: Work out the surface area of each of the following cubes.

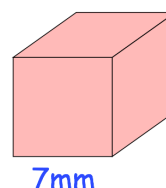
(a)



(b)

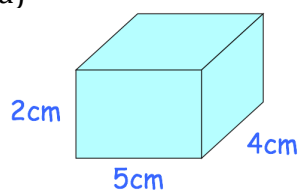


(c)

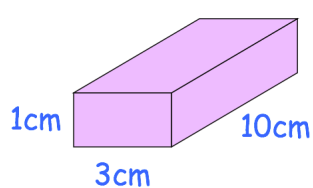


Question 2: Work out the surface area of each of the following cuboids.

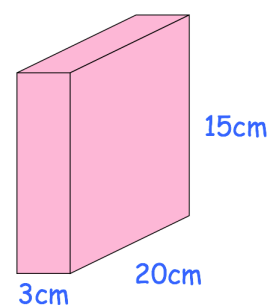
(a)



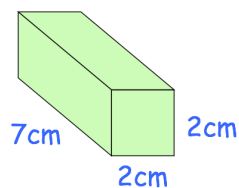
(b)



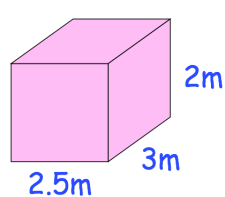
(c)



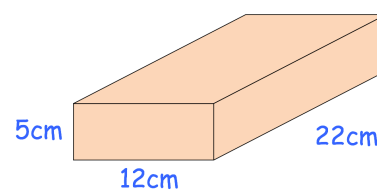
(d)



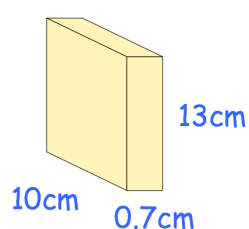
(e)



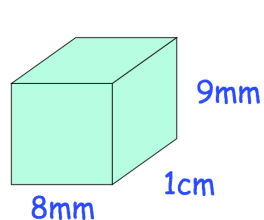
(f)



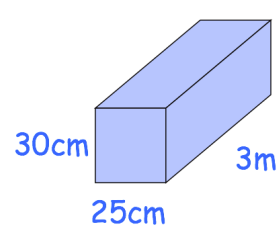
(g)



(h)



(i)

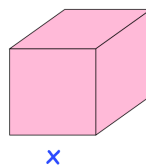


Question 3: Calculate the surface area of a cube with side length 12cm

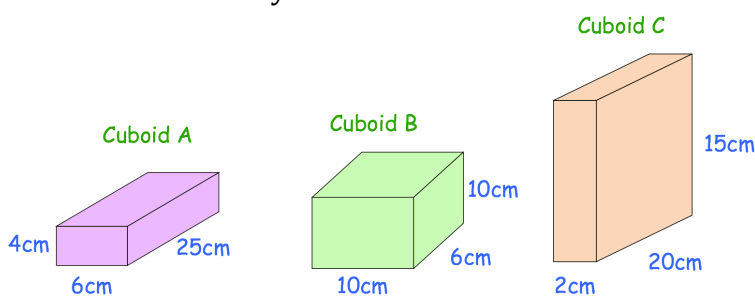
Question 4: Calculate the surface area of a cube with side length $\frac{1}{2}$ cm

Apply

Question 1: A cube has a surface area of 54cm^2
Find the side length, x , of the cube



Question 2: A company is designing a new box to hold coffee.
They have 3 designs, cuboids A, B and C.
All 3 designs have the same volume of 600cm^3
The company want to choose the design with the smallest surface area.
Which cuboid should they choose?



Question 3: A cube has a volume of 1000cm^3 .
Work out the surface area of the cube.

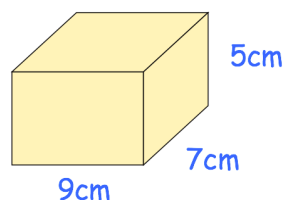
Question 4: Jamie is trying to work out the surface area of the cuboid below.
Can you spot any mistakes?

$$9 \times 5 = 45$$

$$7 \times 5 = 35$$

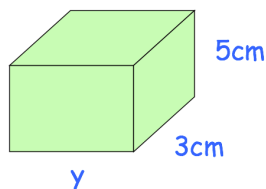
$$9 \times 7 = 63$$

$$45 + 35 + 63 = 143\text{cm}^3$$

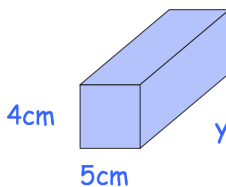


Question 5: Find y for each of the cuboids below

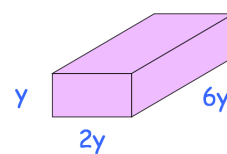
(a) Surface area = 158cm^2



(b) Surface area = 346cm^2



(c) Surface area = 90cm^2



Answers



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