

***ANSWERS**

1. a – 4 cubes; b – 3 cubes; c – 6 cubes
2. Adam's object is the orange juice and Tara's object is the glue stick.
3. Abdul is correct because the height of the present is approximately the same as the box and the width of the present is approximately half the size of the box.

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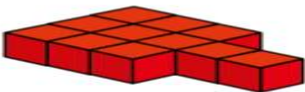
4. a – 13 cubes; b – 5 cubes (if not creating the shape any higher); c – 18 cubes
5. Lola's object is the can; Seth's object is the microwave; Lizzie's object is the briefcase.
6. Alisha is correct because the height of the cereal box is the same as the packing box and approximately 8 cereal boxes will fit in the box.

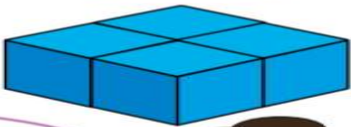
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7. a – 6 cubes; b – 5 cubes; c – 32 cubes
8. Ned's object is the briefcase; Steph's object is the cereal box; Max's object is the pencil case.
9. Tom is correct because you can add a second layer of cans as the height of the tin is approximately half the height of the box.

CHALLENGE

5 Dora and Ron have each made a shape using cubes.


Dora 

Ron 


 My shape has a greater volume because it has more cubes.

Do you agree with Dora? No
Talk about it with a partner.


6 Amir, Eva and Alex have made shapes out of centimetre cubes.

a) Amir has made this shape. 

What is the volume of Amir's shape? 18 cm³

b)  I used 24 cubes to make my shape.

What is the volume of Eva's shape? 24 cm³

c)  The volume of my shape is greater than Amir's but less than Eva's.

What could the volume of Alex's shape be? e.g. 20 cm³
Compare answers with a partner.