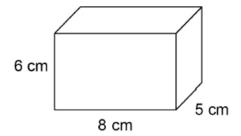
# AQA – Mensuration and calculations – GCSE Mathematics Paper\_2

1. June/2021/Paper\_2F/No.8

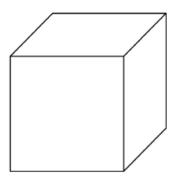
Here is a cuboid.



Work out the volume.	[1 mark]
Angwor	cm <sup>3</sup>

## **2.** June/2021/Paper\_2F/No.15

Which of these is a correct statement about a cube?



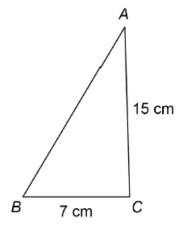
Tick one box.

[1 mark]

It has 12 edges.
It has 12 faces.
It has 12 planes.
It has 12 vertices

## **3.** June/2021/Paper\_2F/No.24

Here is triangle ABC.



Not drawn accurately

cm

Work out the length AB.

Answer

		[3 marks]

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b)	The actual length AB is greater than the answer to part (a).		
	What does this mea	n about angle <i>ACB</i> ?	
	Tick <b>one</b> box.		[1 mark]
		It is 90°	
		It is less than 90°	
		It is more than 90°	
		It could be any of the above.	

### **4.** June/2021/Paper\_2F/No.27

A ball contains 5000 cm<sup>3</sup> of air.

More air is pumped into the ball at a rate of 160 cm<sup>3</sup> per second.

The ball is full of air when it becomes a sphere with radius 15 cm



Volume of a sphere =  $\frac{4}{3}\pi r^3$  where r is the radius

Does it take less than 1 minute to fill the ball?

You <b>must</b> snow your working.	[4 marks]

### **5.** June/2021/Paper\_2H/No.9

A ball contains 5000 cm<sup>3</sup> of air.

More air is pumped into the ball at a rate of 160 cm<sup>3</sup> per second.

The ball is full of air when it becomes a sphere with radius 15 cm



Volume of a sphere =  $\frac{4}{3}\pi r^3$  where r is the radius

Does it take less than 1 minute to fill the ball?

You must show your working.

[4 marks]

#### **6.** June/2021/Paper\_2H/No.20

A square has an area of 0.25 square metres.

Circle the length, in centimetres, of one side of the square.

[1 mark]

0.5 cm

5 cm

50 cm

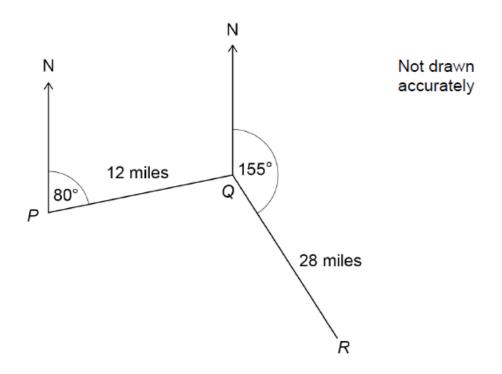
500 cm

### **7.** June/2021/Paper\_2H/No.23

A ship sails from P to Q and then from Q to R.

Q is 12 miles from P, on a bearing of 080°

R is 28 miles from Q, on a bearing of 155°



Work out the direct distance from P to R.

[4 marks]

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Answer		miles