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1

Write these fractions in order from smallest to largest.

$$\frac{1}{2} \quad \frac{7}{8} \quad \frac{3}{4} \quad \frac{2}{8}$$

Write the answer in the box below.

(1 mark)

$$\frac{1}{2} = 0.5 \quad \frac{7}{8} = 0.875 \quad \frac{3}{4} = 0.75 \quad \frac{2}{8} = 0.25$$

Answer: $\frac{2}{8}, \frac{1}{2}, \frac{3}{4}, \frac{7}{8}$

2

Work out the value of 15^2

Write the answer in the box below.

(1 mark)

$$15^2 = 15 \times 15 = 225$$

Answer: 225

3

Calculate the value of:

$$8 + 8 \times 8 - 8$$

Write the answer in the box below.

(1 mark)

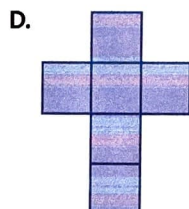
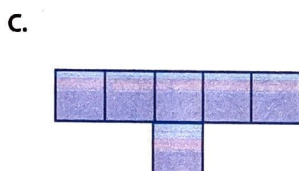
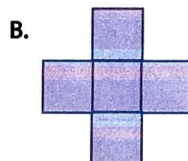
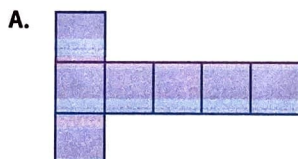
BIDMAS

multiplication first $8 + 8 \times 8 - 8 = 8 + 64 - 8 = 64$

Answer: 64

4

Which of these nets can be folded to form a cube?



Write the answer in the box below.

(1 mark)

Answer: D

Scenario A

Surfing

5

You want to buy a new surfboard.

You have found a surfboard that is on special offer.



How much will the surfboard cost after the discount?

Show your working out and write the answer in the box below.

(3 marks)

$$12\% \text{ discount} = 0.88$$

$$£235.00 \times 0.88 = £206.80$$

Answer: £ 206.80

6

You are preparing to enter a local surfing competition. You know that it will take you:

- 45 minutes to drive to the competition
- 11 minutes to put on your wetsuit
- 25 minutes to register for the competition

The competition starts at 1pm.

You start the above activities at 11:30am.

Will you be ready in time for the competition to start at 1pm?

Show your working out and write the answer in the box below.

(2 marks)

$$45 + 11 + 25 = 81 \text{ mins}$$

$$11:30 + 81 \text{ mins} = \del{12:51} 12:51$$

So there is time.

Answer: Yes.

Scenario B

Nature reserve

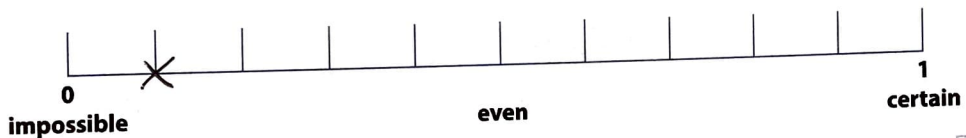
7

You volunteer at the Highfield Nature Reserve.

There are a total of 10 volunteers at the reserve.

Every day a name is drawn at random to see who will refill the birdfeeders.

On the scale below, mark an 'X' to indicate the probability that you will be drawn to refill the birdfeeders on a single day. (1 mark)



8

Last year the reserve received £3,700 in donations.

This year has seen a 15% increase in the amount donated.

How much has been donated this year?

Show your working out and write the answer in the box below. (2 marks)

$$£3700 \times 1.15 = £4225$$

Answer: £ 4225

9

You are preparing a presentation on the different types of birds in the reserve.
You display the figures in a chart.

Chart to show number of birds in the reserve

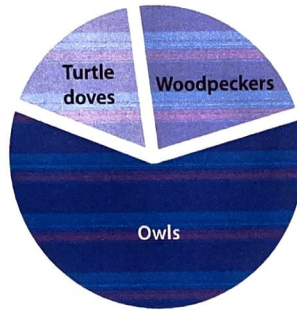


Diagram not to scale

- $\frac{1}{5}$ of birds are woodpeckers
- 70% of the birds are owls
- The remainder of the birds are turtle doves

Calculate the angles to complete the table below.

(3 marks)

Type of bird	Angle in pie chart (°)
Woodpeckers	72
Owls	252
Turtle doves	36

Workings

$$360 \times \frac{1}{5} = 72^\circ$$

$$360 \times 0.7 = 252^\circ$$

$$360 - 72 - 252 = 36^\circ$$

END OF ASSESSMENT

For official use only:

	1	2	3	4	5	6	7	8	9	TOTAL
Mark(s) available	1	1	1	1	3	2	1	2	3	15
Marker										
2nd line marker										

Marker:	
Date:	

2nd line marker:	
Date:	



Level 1

Mathematics

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