Weekly check: Year 7 part 3

Year 7 | Key Stage 3 | Part 3: the last third of the year | 20 questions, 51 marks

KS3 Maths weekly check

Scan for the solutions

Name: _____ **Date:** _____ **Score:** _____ **/ 51**

1 a. At A, draw an angle of 65° above the line AB.

b. At C, draw an angle of 270° measured anticlockwise from the line CD (a three-quarter turn).



(2 marks)

Answer _____

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2 a. A regular octagon has sides of length 7 cm. Work out its perimeter.

b. Work out the perimeter of the pentagon in the diagram.

c. A regular hexagon has a perimeter of 45 cm. Work out the length of one side.

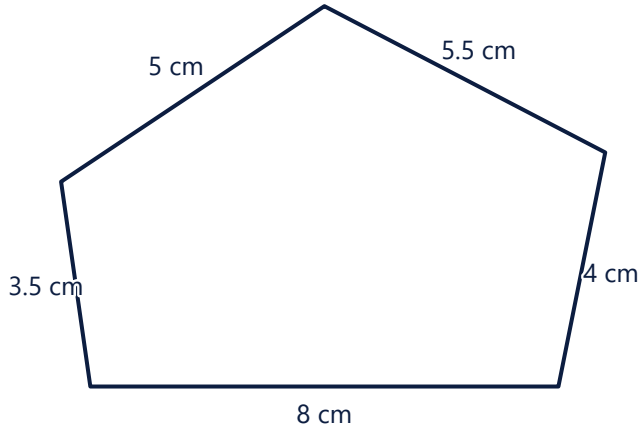


Diagram NOT accurately drawn

(3 marks)

Answer _____

3 There are 200 pupils in Year 7 at Hillside School.

Jamal asks 50 of the Year 7 pupils how they get to school. 30 of them say they walk.

a. Estimate how many of the 200 Year 7 pupils walk to school.

b. Jamal asked the 50 pupils as they arrived through the main gate, which is next to the bus stop. Give one reason why his estimate might not be good for the whole of Year 7.

(3 marks)

Answer _____

4 A cuboid has a volume of 180 cm^3.

The base of the cuboid measures 6 cm by 5 cm.

Work out the height of the cuboid.

(3 marks)

Answer _____

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5 150 students travel to school by bus, by car or by walking.

The two-way table shows some information.

	Bus	Car	Walk	Total
Year 7	24		30	80
Year 8		18		
Total	55			150

Complete the two-way table.

(3 marks)

Answer _____

6 Three angles meet at a point. Two of the angles are 145° and 118°. The third angle is x°.

Work out the value of x. Give a reason for your answer.

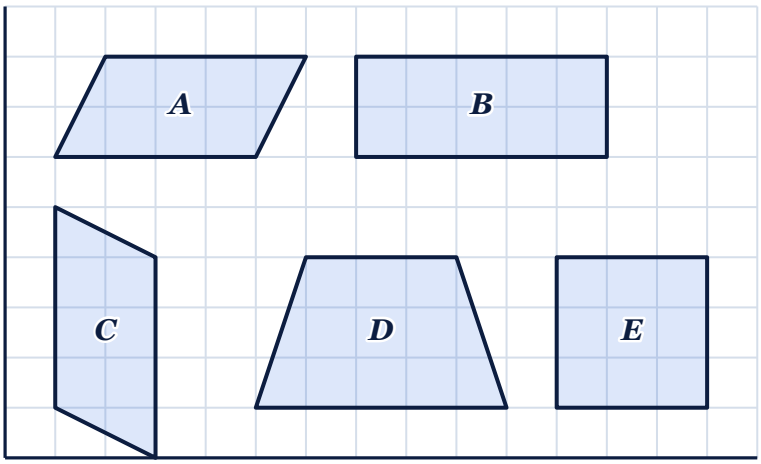
(2 marks)

Answer _____

7 The diagram shows five quadrilaterals, labelled A, B, C, D and E, drawn on a centimetre grid.

a. Write down the letters of the pair of congruent quadrilaterals.

b. Write down the mathematical name of quadrilateral A.



(2 marks)

Answer _____

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8 A rectangle has length 9 cm and width 4 cm.

a. Work out the area of the rectangle.

b. Work out the perimeter of the rectangle.

(2 marks)

Answer _____

9 A rectangle is made from three identical squares placed side by side in a row.

The perimeter of the rectangle is 48 cm.

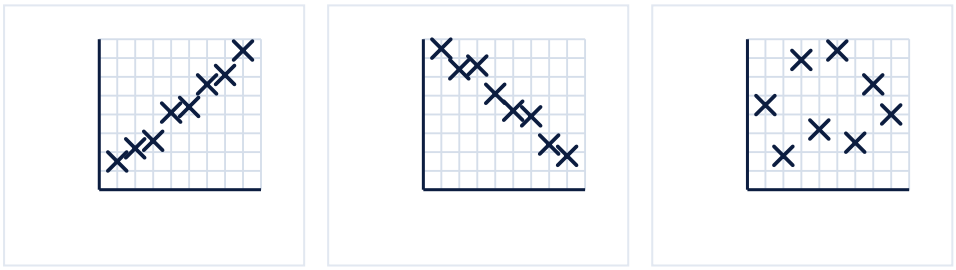
Work out the area of the rectangle.

(3 marks)

Answer _____

10 Here are three scatter graphs, A, B and C.

For each graph, write down the type of correlation it shows.



A ***B*** ***C***

(3 marks)

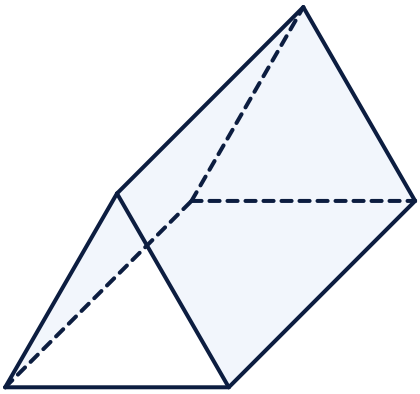
Answer _____

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11 Here is a triangular prism.

a. Write down the number of faces of a triangular prism.

b. Write down the number of edges of a triangular prism.



(2 marks)

Answer _____

12 Part of a bus timetable is shown.

	Bus A	**Bus B**	**Bus C**
Bus station	07:40	08:05	08:35
Park Road	07:52	08:17	08:47
Library	08:03	08:28	08:58
School	08:15	08:40	09:10

a. How long does Bus B take to go from the bus station to school?

b. Maya gets on at Park Road. She must be at school by 08:30. Which is the latest bus she can catch?

c. Ollie arrives at the Library stop at 08:10. How long does he have to wait for the next bus?

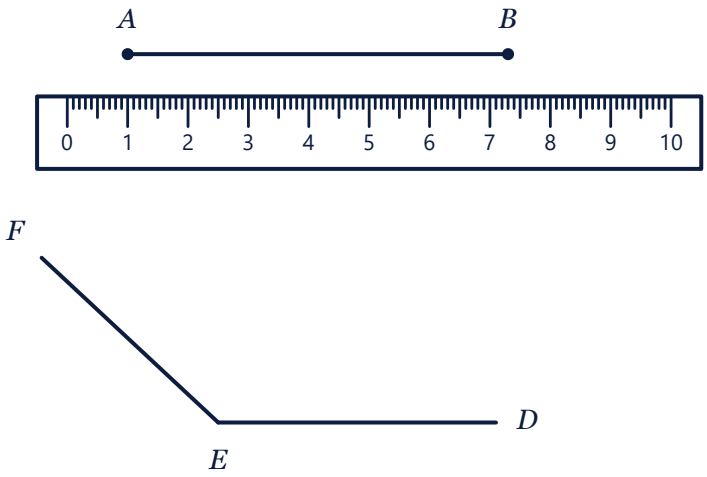
(3 marks)

Answer _____

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13 a. The diagram shows line AB above a ruler marked in centimetres and millimetres. Write down the length of AB to the nearest millimetre.

b. Use a protractor to measure angle DEF.



(2 marks)

Answer _____

14 A box of chocolates is a triangular prism.

The triangle at the end has a base of 10 cm and a height of 6 cm. The box is 15 cm long.

Work out the volume of the box.

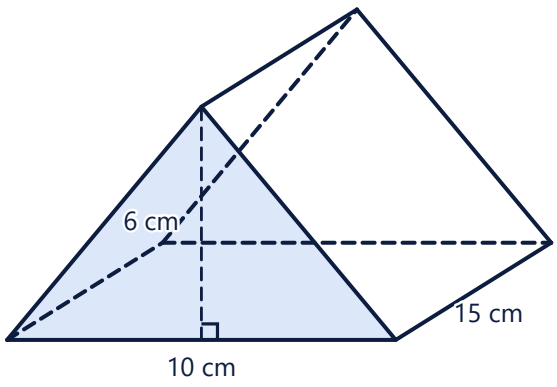


Diagram NOT accurately drawn

(2 marks)

Answer _____

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15 The table shows the number of children in each of 20 families.

Number of children	Frequency
0	3
1	8
2	6
3	3

Work out the mean number of children per family.

(3 marks)

Answer _____

16 Ayesha has a cube of modelling clay with edges of 6 cm.

She reshapes all of the clay into a cuboid. The cuboid is 8 cm long and 3 cm wide.

Work out the height of the cuboid.

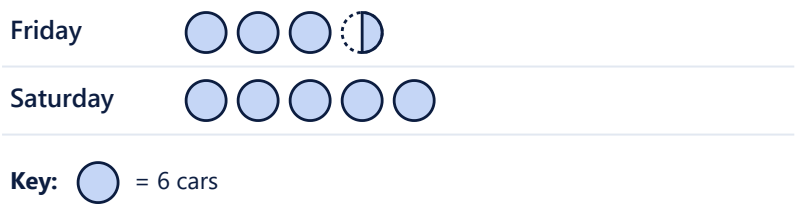
(3 marks)

Answer _____

17 The pictogram shows the number of cars washed at a garage on Friday and Saturday.

Key: ● represents 6 cars

Work out how many more cars were washed on Saturday than on Friday.



(2 marks)

Answer _____

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18 a. Find the median of these numbers.

14 9 21 11 17 9 12

b. Here are the heights, in cm, of six pupils. Find the median height.

152 147 160 155 149 158

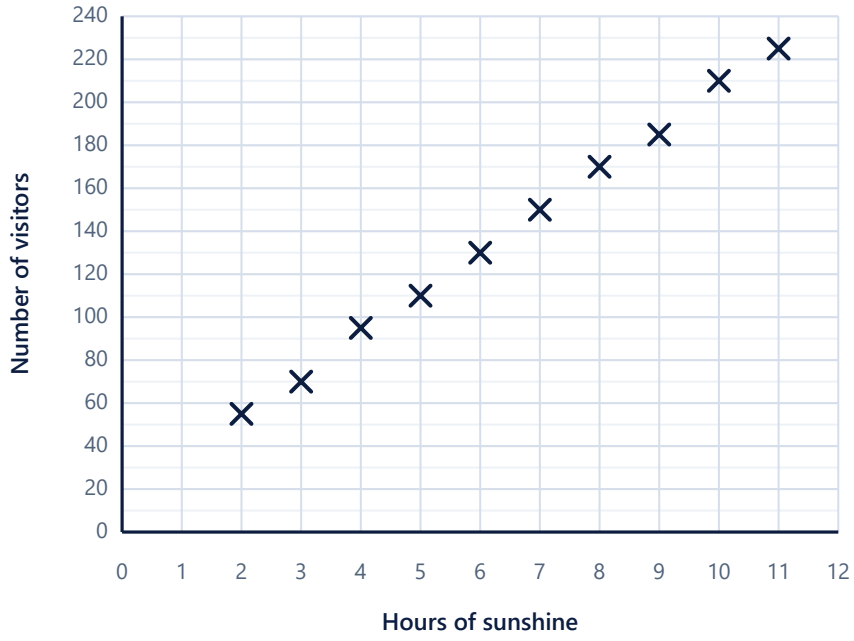
(3 marks)

Answer _____

19 The scatter graph shows the number of hours of sunshine and the number of visitors to a country park on each of 10 days.

a. Describe the correlation shown by the scatter graph.

b. On another day there were 7.5 hours of sunshine. By drawing a line of best fit, estimate the number of visitors to the park on this day.



(3 marks)

Answer _____

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20 A group of Year 7 pupils and a group of Year 8 pupils did the long jump.

	Median	**Range**
Year 7	2.9 m	1.2 m
Year 8	3.3 m	0.8 m

Make two comparisons between the long jumps of the two year groups. (2 marks)

Answer _____

End of questions | Total 51 marks

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