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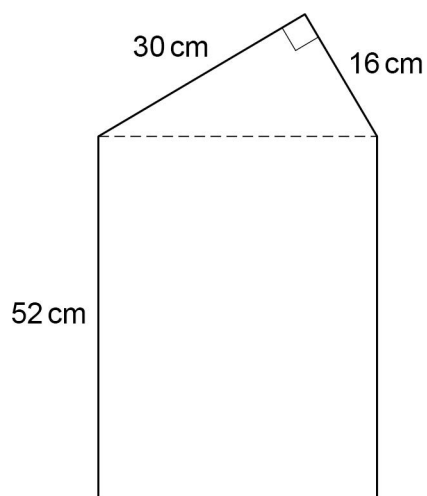| Question number	**Additional page, if required.** **Write the question numbers in the left-hand margin.**

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27 A shape is made by joining a right-angled triangle to a rectangle.

30 cm   16 cm

Not drawn accurately

52 cm

Work out the area of the shape.

[5 marks]

Answer _____ cm^2

25 Rosie makes phone calls to try to sell broadband.

Today, she made 120 calls.

The table shows the results.

Result of call	Frequency
Not answered	33
Answered but sale not made	81
Answered and sale made	6

25 (a) Write down the relative frequency that a call was **not answered**.

[1 mark]

Answer _____

25 (b) During the **rest of the week**, Rosie will make 500 calls.

Using the results in the table, how many sales does she expect to make during the **rest of the week**?

[2 marks]

_____

_____

_____

_____

Answer _____

22 A school play takes place each day from Monday to Friday.

Here are the attendances on four of the days.

Monday	Tuesday	Wednesday	Thursday
72	83	88	97

For all **five** days, the mean attendance is 90

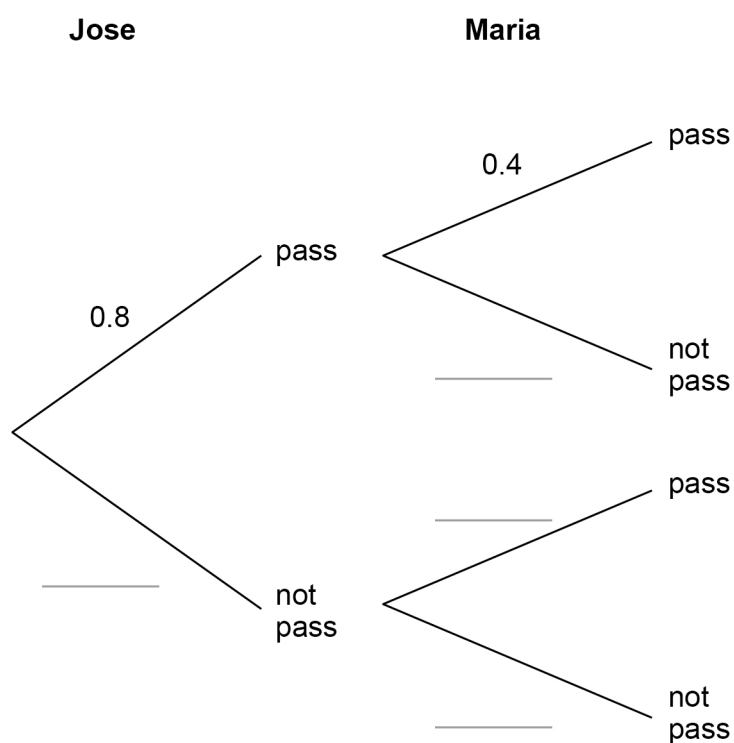Work out the attendance on Friday.

[**3 marks**]

Answer _____

20 Jose and Maria each take a test.

The probability that Jose passes is 0.8

The probability that Maria passes is 0.4

20 (a) Complete the tree diagram.

[2 marks]

Jose **Maria**

pass
0.4
pass
0.8
not
pass

not
pass
pass

not
pass

20 (b) Work out the probability that they **both** pass.

[1 mark]

Answer

18 (a) The people at a party are either adults or children.

adults : children = 9 : 11

What percentage are adults?

[2 marks]

Answer _____ %

18 (b) The people at a different party are from Spain, France or Germany.

68% are from Spain

number from France = number from Germany

Work out   number from Spain : number from France

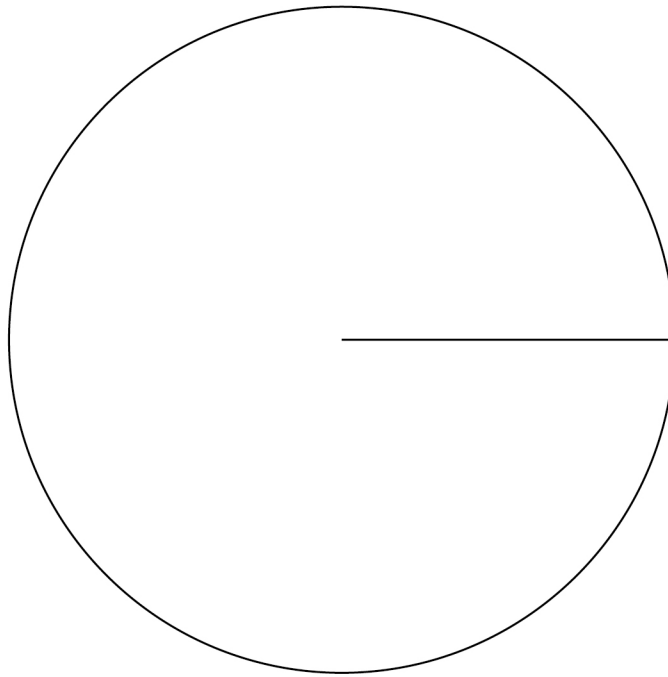Give your answer in the form $n : 1$

[3 marks]

Answer _____ : 1

16 60 people were asked if they would vote in an election.

- $\frac{1}{4}$ of the people said No

- 20 people said Yes

- The rest said Maybe

Draw and label a pie chart to show this information.

[3 marks]

_____

_____

_____

_____

_____

_____

14 Match each expression on the left with one on the right.

One has been done for you.

[3 marks]

$a + 6$

$a + 3 + 2$ ——————— $a + 5$

$a + 3 \times 2$

$3a + 6$

$a \times 3 \times 2$

$6a$

$a \times 3 + 2$

$3a + 2$

12 Sue is working with 2-digit numbers.

She multiplies the digits together to get an answer.

> For 63, she multiplies 6 by 3
> so 63 gives an answer of 18

12 (a) Write down a different 2-digit number that gives an answer of 18

[1 mark]

Answer _____

12 (b) Write down a 2-digit number that gives an answer of 0

[1 mark]

Answer _____

12 (c) Write down a 2-digit number that gives an answer **greater** than 70

[1 mark]

Answer _____

11   Nihal has savings of £168

He uses $\dfrac{5}{7}$ of his savings to buy sports equipment.

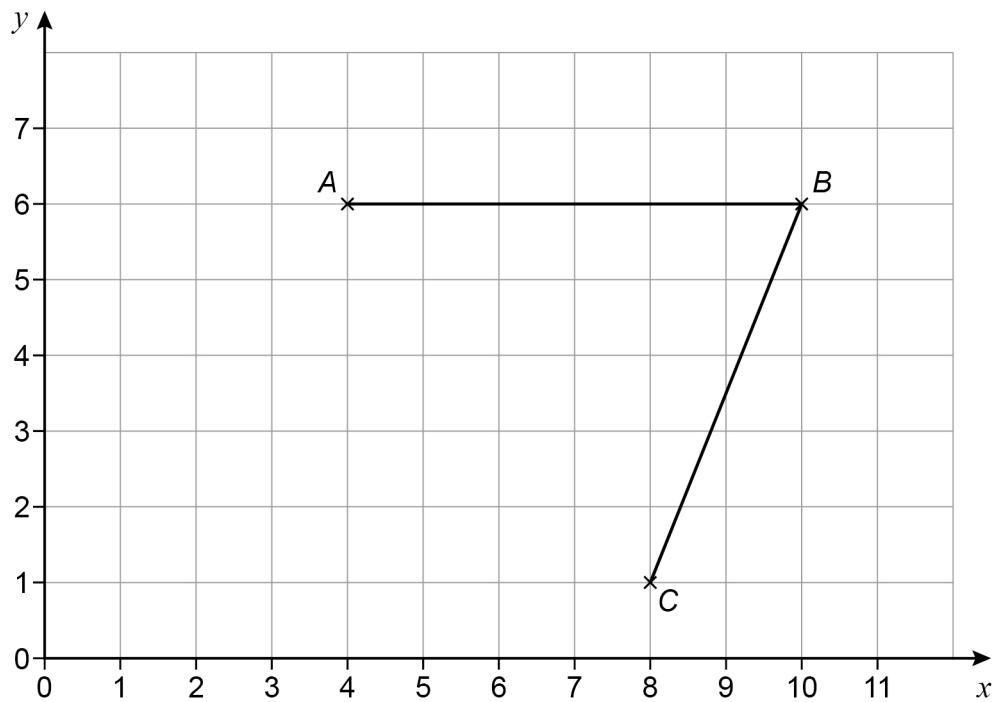**11 (a)**   Assume that he will use $\dfrac{1}{3}$ of the **rest** of the money to buy a shirt.

How much of his savings, in £, will he have left?

[3 marks]

Answer £ _____

10 Lines *AB* and *BC* are shown.

10 (a) Write down the coordinates of *C*.

[1 mark]

Answer (_____ , _____)

10 (b) Write down the coordinates of the midpoint of *AB*.

[1 mark]

Answer (_____ , _____)

8 The masses of some puppies were recorded.

The smallest mass was 7 kilograms 200 grams.

The range of the masses was 650 grams.

What was the **largest** mass?

Give your answer in kilograms and grams.

[2 marks]

Answer _____ kilograms _____ grams

9 (a) Ali revises each day for five days.

On each of the first **four** days he revises from 5 pm to 8 pm

On the fifth day he starts revising at 1 pm

He finishes when he has revised for a **total** of 18 hours for the five days.

What time does he finish on the fifth day?

[3 marks]

Answer _____

6 A machine to clean carpets can be hired.

Machine hire
£25 per day

Cleaning fluid
1-litre bottle   £10
2-litre bottle   £18

Rana wants to

hire the machine for 1 day

and

buy 5 litres of cleaning fluid.

Work out the **smallest** total amount she could pay.

[3 marks]

Answer £ _____

Answer **all** questions in the spaces provided.

1 Here is a number line.

Which number is at A?

Circle your answer.

[1 mark]

1.2   1.4   1.5   1.8

2 Here is an expression $5a + 7b + 9c$

Which is the second term?

Circle your answer.

[1 mark]

a 7 $7b$ 9

3 How many hours are there in 5 days?

Circle your answer.

[1 mark]

35   120   150   300