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

1 (a) (i) Write the number fourteen thousand, five hundred and twenty three in figures.

Answer ..... *(1 mark)*

1 (a) (ii) Write the number 50 000 in words.

Answer ..... *(1 mark)*

1 (b) Write down the value of the figure 7 in the number 5768

Answer ..... *(1 mark)*

1 (c) Write the number 5281

1 (c) (i) to the nearest ten,

Answer ..... *(1 mark)*

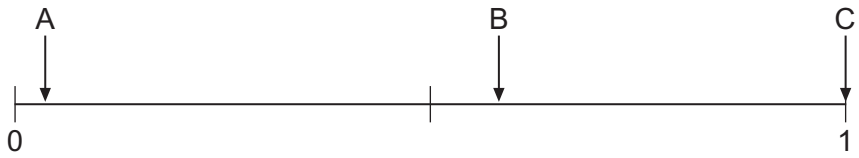
1 (c) (ii) to the nearest hundred.

Answer ..... *(1 mark)*

1 (d) Write 1000 as a power of 10

Answer ..... *(1 mark)*

2 The scale shows the probability that three events A, B and C will happen.



Choose the correct word to complete each statement.

Unlikely	Impossible	Very likely
Certain	Very unlikely	Likely

It is ..... that event A will happen.

It is ..... that event B will happen.

It is ..... that event C will happen.

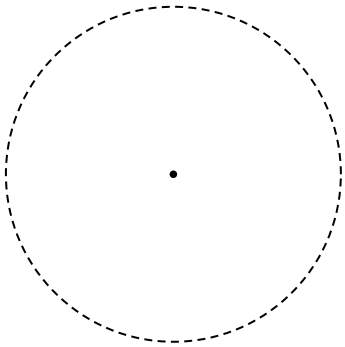
(3 marks)

9

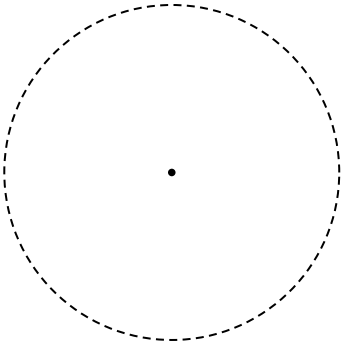
Turn over ▶

3 (a) On the circles, draw

a radius

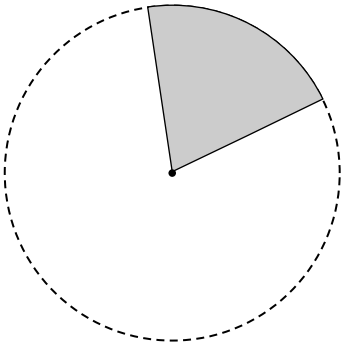


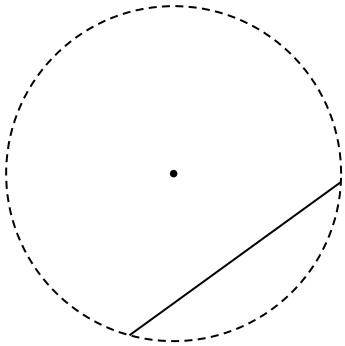
an arc



(2 marks)

3 (b) Complete the sentences.





The shaded area is a ..... The straight line is a .....

(2 marks)

4 Complete the table by putting each of the following numbers in the correct box.

4 10 30 36 49 125

	Square number	**Multiple of 5**
Odd number		
Factor of 20		
Multiple of 6		

(4 marks)

5 The first three odd numbers are 1, 3 and 5

5 (a) (i) Write down the fourth odd number.

Answer ..... *(1 mark)*

5 (a) (ii) Find the tenth odd number.

.....

Answer ..... *(1 mark)*

5 (b) Show how you could find the 100th odd number without writing down a list.

.....

.....

(1 mark)

6 Ceri finds these distance measures in an old mathematics text book.

22 yards = 1 chain 10 chains = 1 furlong 8 furlongs = 1 mile

Use the table to find the number of yards there are in one mile.

.....

.....

.....

Answer ..... yards *(3 marks)*

14

7 Here is a calendar for May 2010.

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

This 2 by 2 square is taken from the calendar.

3	4
10	11

Multiply the diagonal numbers together. $4 \times 10 = 40$
$3 \times 11 = 33$

Then find the difference. $40 - 33 = 7$

Difference = 7

Do the same for this 2 by 2 square taken from the calendar.

5	6
12	13

Show your working.

.....

.....

.....

.....

Difference = ... *(3 marks)*

8 (a) Coryn estimates the answer to 22×39
His answer is 800

Show how he could have obtained this answer.

.....

.....

(1 mark)

8 (b) Estimate $596 \div 31$
Show your working.

.....

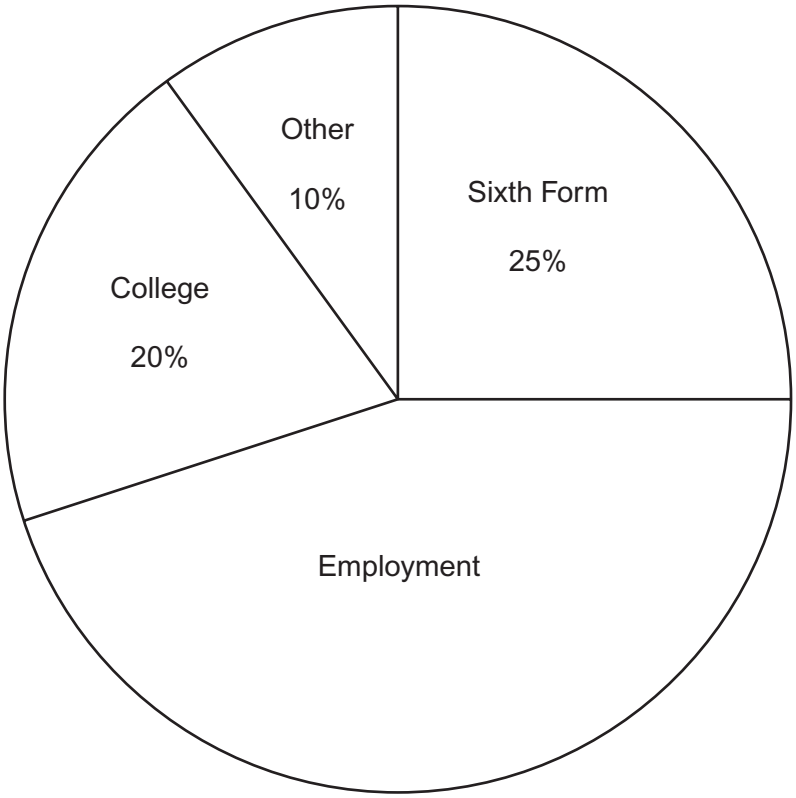
.....

Answer ..... *(2 marks)*

Turn over for the next question

6

9 (a) The pie chart shows the destinations of 300 students from Year 11 in 1980.



9 (a) (i) Work out the percentage of the students who went into Employment.

.....

.....

Answer ..... % *(2 marks)*

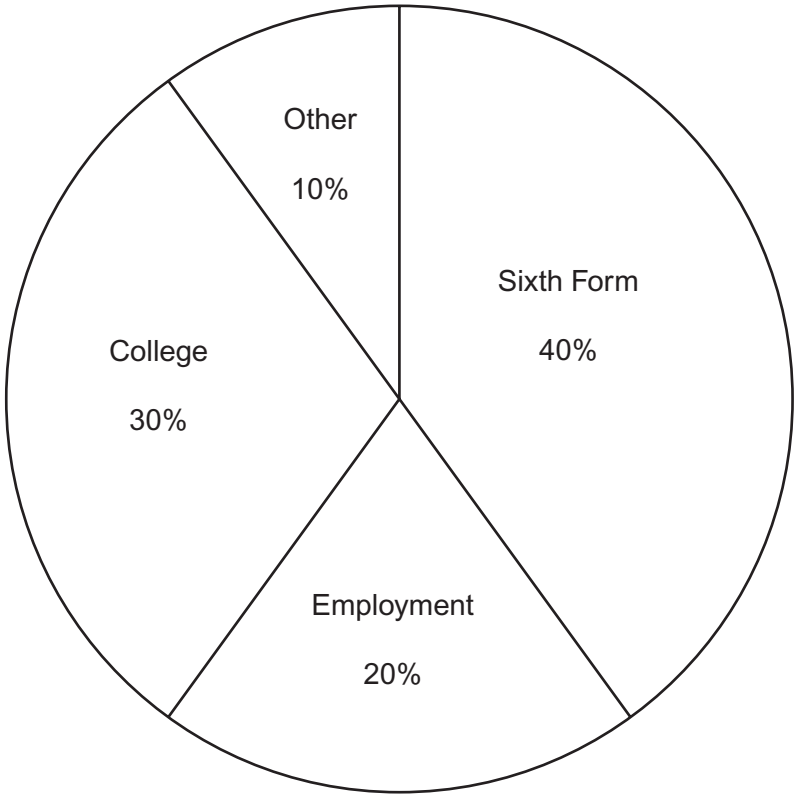
9 (a) (ii) Work out the number of students who went to College.

.....

.....

Answer ..... *(2 marks)*

9 (b) The pie chart shows the destinations of 300 students from Year 11 in 2009.



9 (b) What was the most popular destination in 2009?

Answer ..... *(1 mark)*

9 (c) The pie charts show changes in the destinations of the students.

Write down **two** changes that have happened by 2009.

Change 1 .....

.....

Change 2 .....

.....

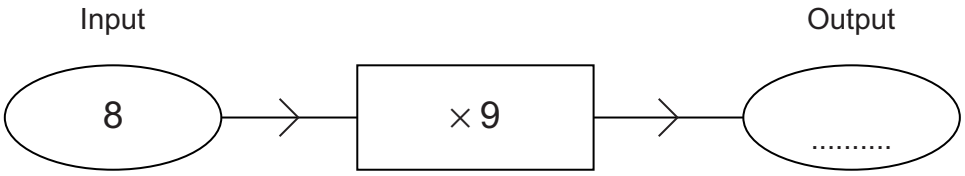
(2 marks)

7

Turn over ▶

10 (a) Here is a number machine.

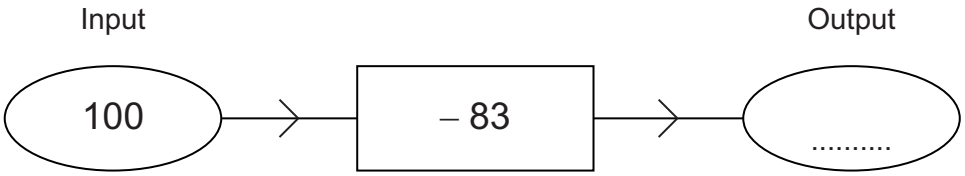
Work out the output.



(1 mark)

10 (b) Here is a different number machine.

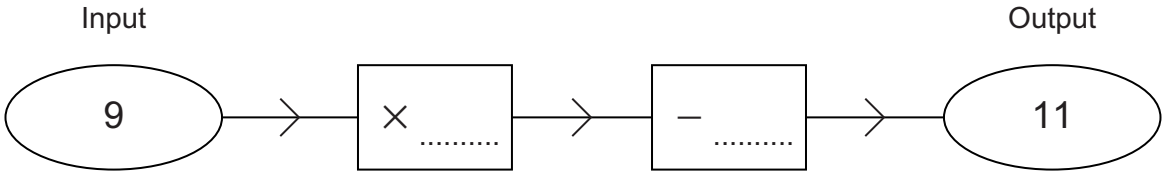
Work out the output.

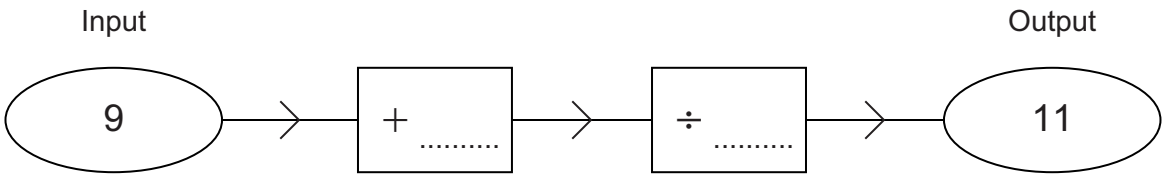


(1 mark)

10 (c) Here are another two number machines.
They both have an input of 9 and an output of 11

Complete each number machine to make it work.





.....

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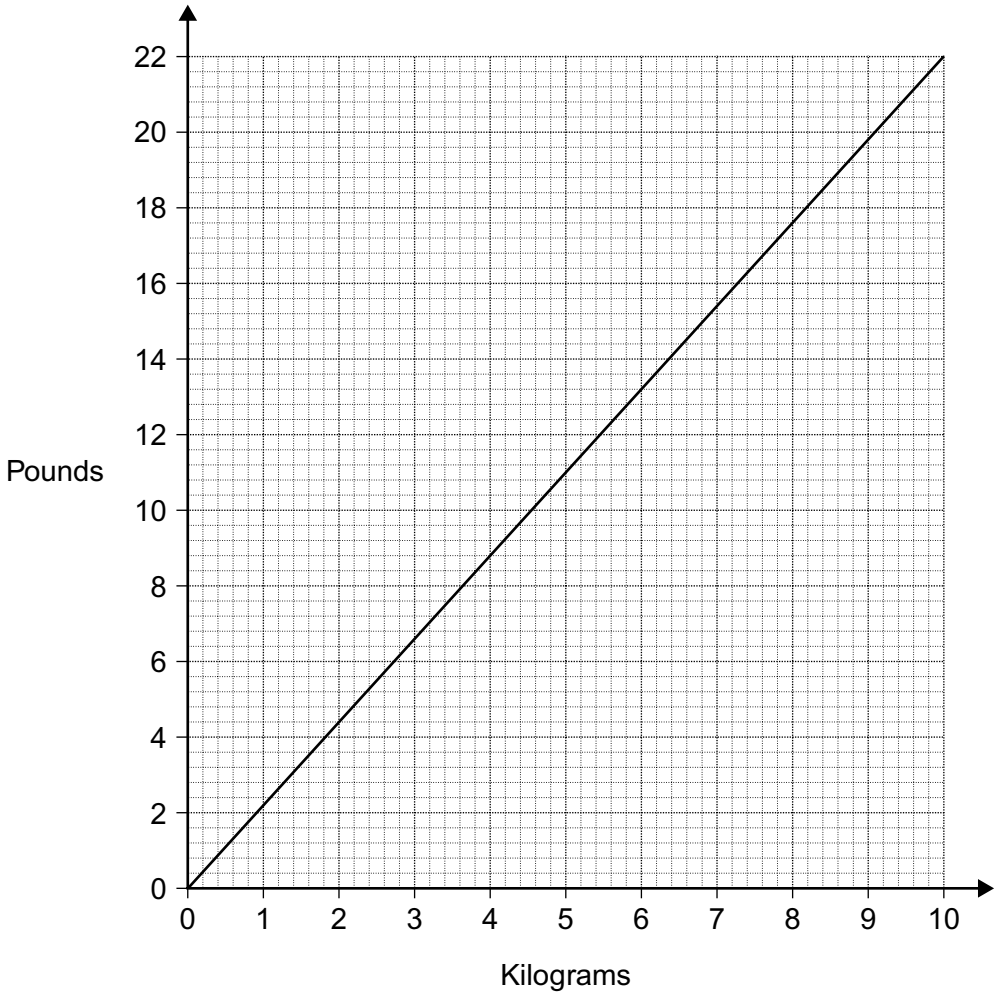
.....

.....

(2 marks)

11 Here is a conversion graph.



11 (a) Use the graph to convert

11 (a) (i) 5 kilograms to pounds,

Answer ..... pounds *(1 mark)*

11 (a) (ii) 14 pounds to kilograms.

Answer ..... kilograms *(1 mark)*

11 (b) Use the graph to convert 40 kilograms to pounds.
Explain your method.

.....

.....

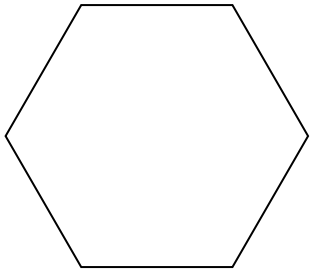
.....

(2 marks)

8

Turn over ▶

12 (a) The diagram shows a regular hexagon.



12 (a) (i) By measuring the length of one side, work out the perimeter.

.....

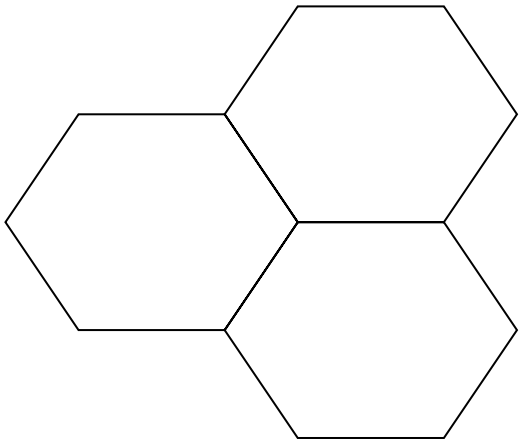
.....

Answer ..... cm *(2 marks)*

12 (a) (ii) On the diagram above draw in all the lines of symmetry.

(2 marks)

12 (b) Three regular hexagons are joined together as shown.



Not drawn accurately

Work out the size of an interior angle of a regular hexagon.
You must show your working.

.....

.....

Answer ..... degrees *(2 marks)*