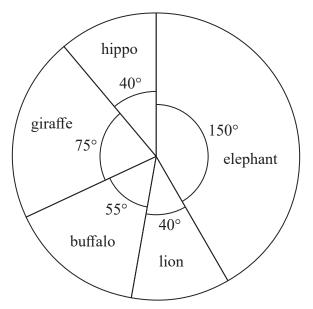
DO NOT WRITE IN THIS AREA

10 Jerry went on holiday to a game reserve.He recorded the number of each of five different types of animal he saw.

The pie chart below gives information about his results.



(a) Write down the ratio of the number of elephants Jerry saw to the number of giraffes he saw. Give your ratio in its simplest form.

Jerry saw 8 lions.

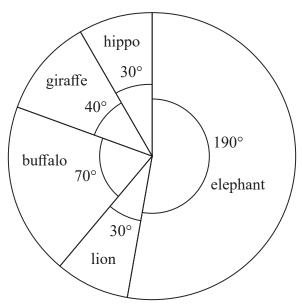
(b) How many giraffes did Jerry see?

(2)

(2)



Lesley went on holiday to the same game reserve. She also recorded the number of each of five different types of animal she saw. The pie chart below gives information about her results.



Lesley says,

"The pie charts show that I saw more elephants than Jerry saw."

(c) Is Lesley correct?

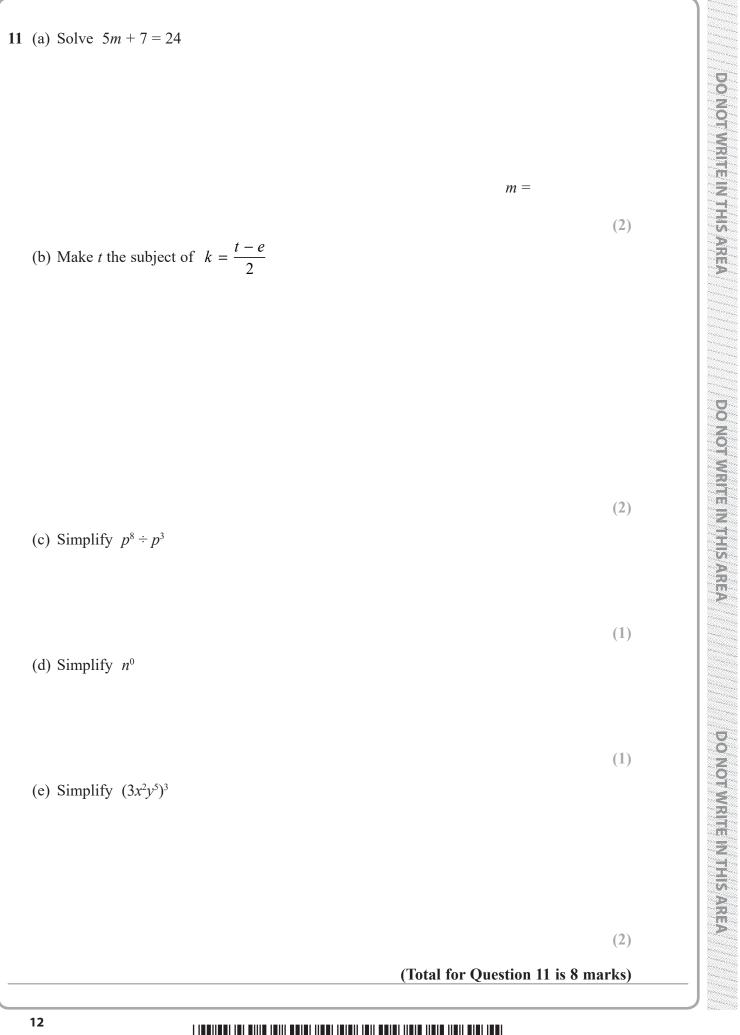
You must give a reason for your answer.

(1)

(Total for Question 10 is 5 marks)



DO NOT WRITE IN THIS AREA



P 5 9 0 1 8 A 0 1 2 2 4

- DO NOT WRITE IN THIS AREA **BO NOT WRITE IN THIS AREA DO NOT WRITE IN THIS AREA**
- 12 A circle has radius 9 cm.
 - (a) Work out the circumference of the circle. Give your answer correct to 1 decimal place.

The diagram shows the pentagon ABCDE.

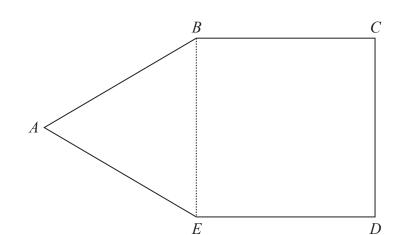


Diagram **NOT** accurately drawn

(2)

cm

ABE is an equilateral triangle.

BCDE is a square with area $169 \,\mathrm{cm}^2$

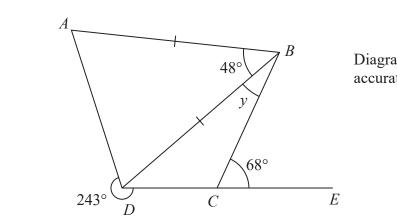
(b) Work out the perimeter of ABCDE.

cm

(3)

(Total for Question 12 is 5 marks)





ABD is an isosceles triangle with AB = DB. DCE is a straight line.

Angle $ABD = 48^{\circ}$ Angle $BCE = 68^{\circ}$ Reflex angle $ADC = 243^{\circ}$

13

Work out the size of the angle marked *y*. Give a reason for each stage in your working.

0

(Total for Question 13 is 5 marks)



14 Toy cars are made in a factory.

300 cars per hour are made in the factory. Cars are made in the factory for $9\frac{1}{2}$ hours each day. 8% of the cars made in the factory are faulty. The rest of the cars made in the factory are **not** faulty.

Work out how many of the cars made each day are not faulty.

(Total for Question 14 is 4 marks)



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

You must show al	npasses only to construct th Il of your construction lines	e perpendicular bisector of the line <i>AB</i> .	
	,		
	A	B	
		(Total for Question 15 is 2 marks)	
16			

16 The table shows information about the number of birds each of 40 people counted in their garden one morning.

Number of birds	Frequency
1 - 5	5
6 - 10	10
11 - 15	16
16 - 20	9

(a) Write down the modal class.

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

(b) Work out an estimate for the mean number of birds.

(4)

(1)

(Total for Question 16 is 5 marks)



17