

Pearson
Edexcel

Name: _____

BennettMaths Edexcel 1H – Part 1

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1 Work out $4.62 \div 0.12$

.....
(Total for Question 1 is 3 marks)

2 Work out $5\frac{3}{10} - 3\frac{2}{5}$

Give your answer as a mixed number.

.....
(Total for Question 2 is 3 marks)

3 A cube has a total volume of 64 cm^3

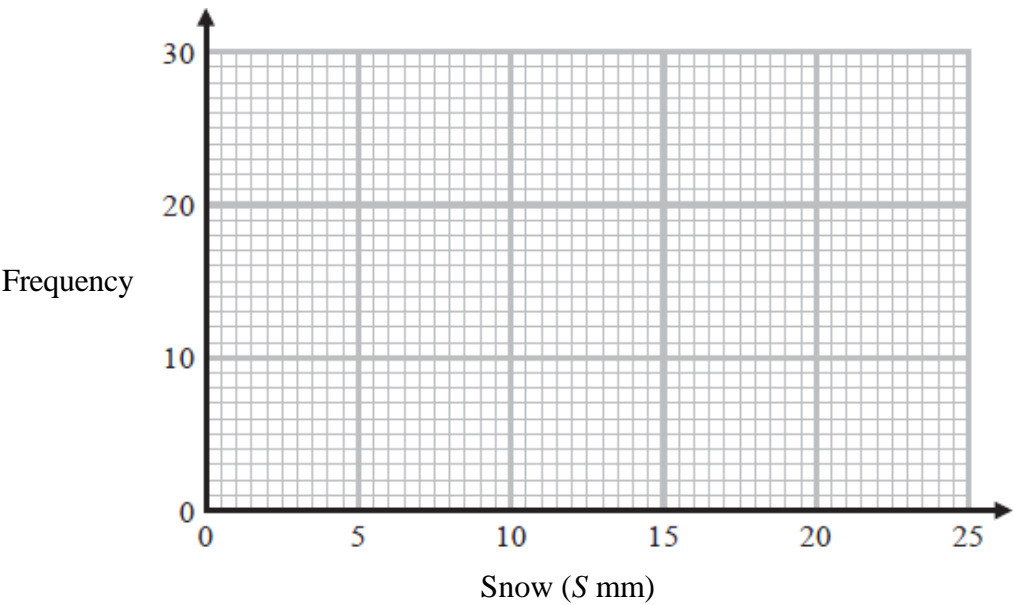
Work out the surface of the cube.

..... cm^2
(Total for Question 3 is 4 marks)

- 4 The table shows information about the amount of snow, in mm, in a town for 70 days in winter.

Snow (S mm)	Frequency
$0 \leq S < 5$	2
$5 \leq S < 10$	22
$10 \leq S < 15$	17
$15 \leq S < 20$	14
$20 \leq S < 25$	9

Draw a frequency polygon for this information.



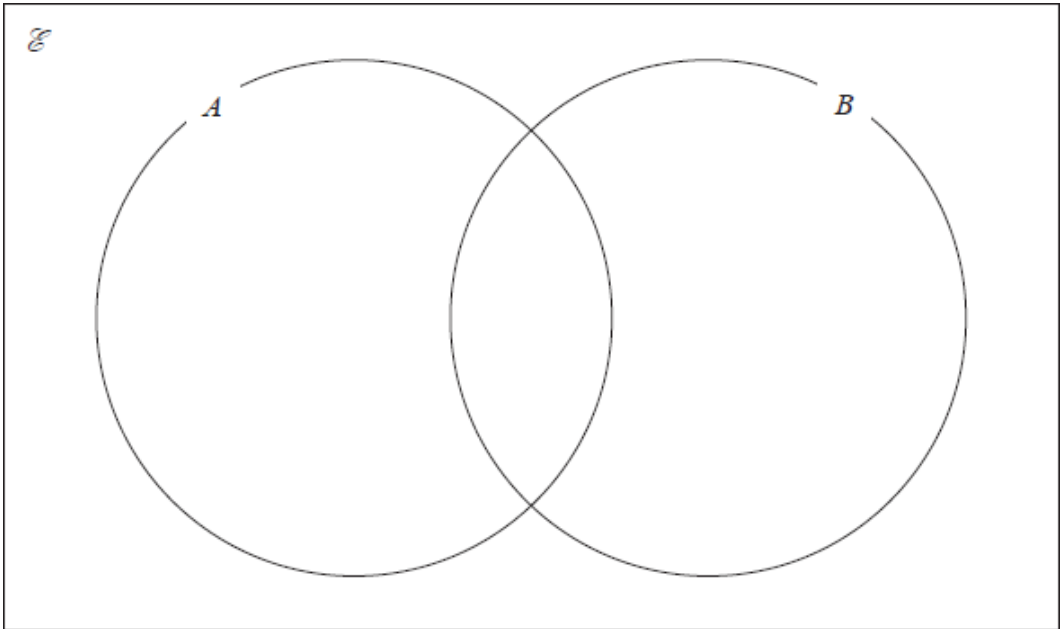
(Total for Question 4 is 2 marks)

5 $\mathcal{E} = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

$A = \{\text{even numbers}\}$

$B = \{\text{square numbers}\}$

(a) Complete the Venn diagram for this information.



(3)

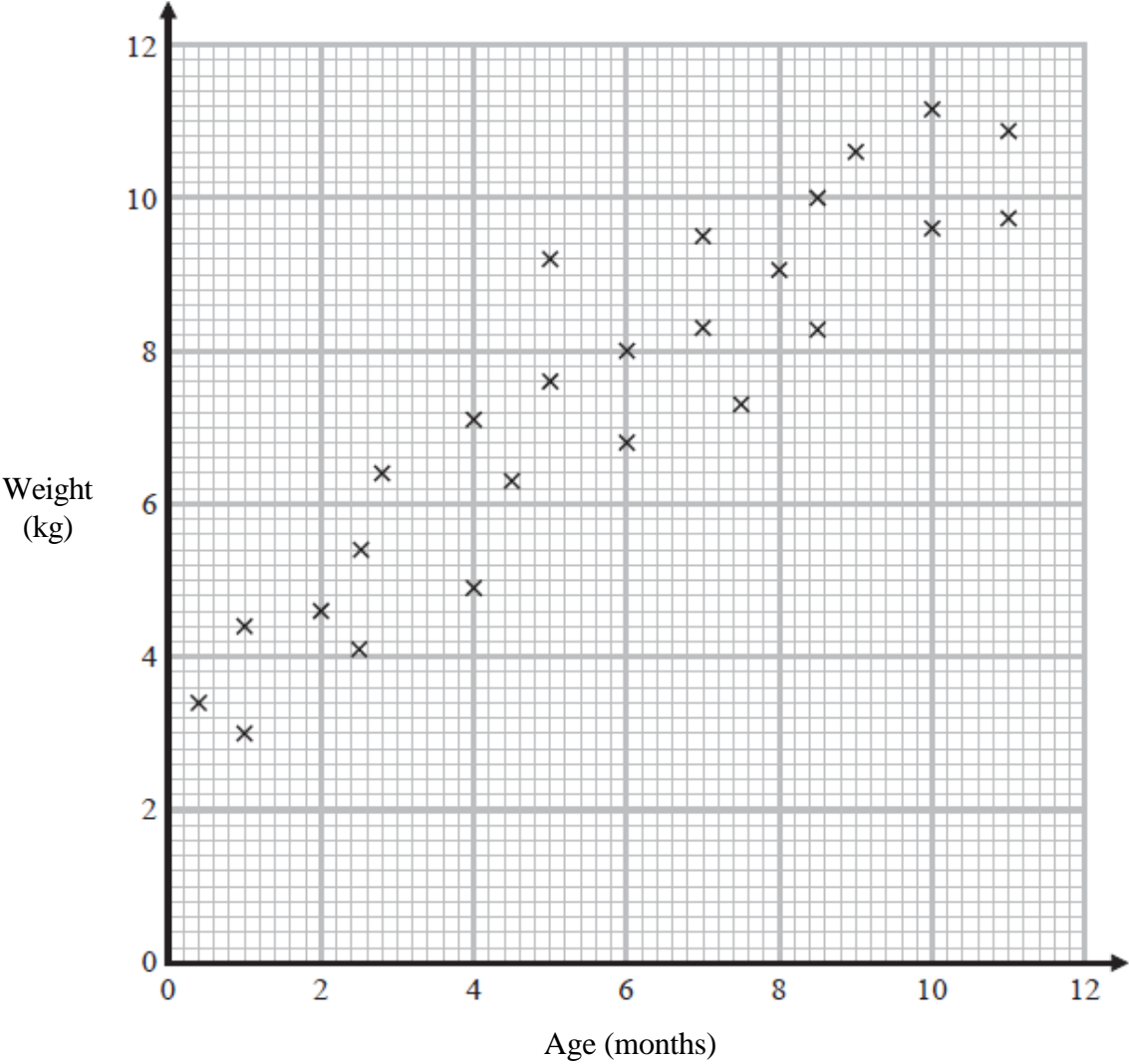
A number is chosen at random from the universal set \mathcal{E} .

(b) Find the probability that this number is in the set A'

.....
(2)

(Total for Question 5 is 5 marks)

6 The scatter graph shows information about the ages and weights of some newborn monkeys.



(a) Describe the relationship between the age and the weight of the monkeys.

.....
.....
.....
(1)

Another monkey has a weight of 8.4 kg

(b) Using the scatter graph, find an estimate for the age of this monkey.

..... months
(2)

(Total for Question 6 is 3 marks)

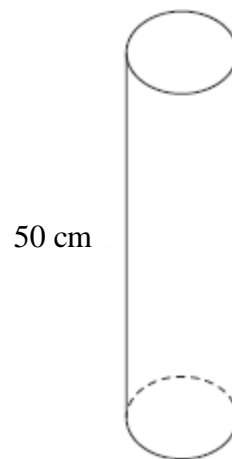
- 7** The price of a console increases by 15%
This 15% increase adds £375 to the price of the console.

Work out the price of the console before the increase.

£.....

(Total for Question 7 is 2 marks)

- 8 The diagram shows a solid cylinder on a horizontal floor.



$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

The cylinder has a

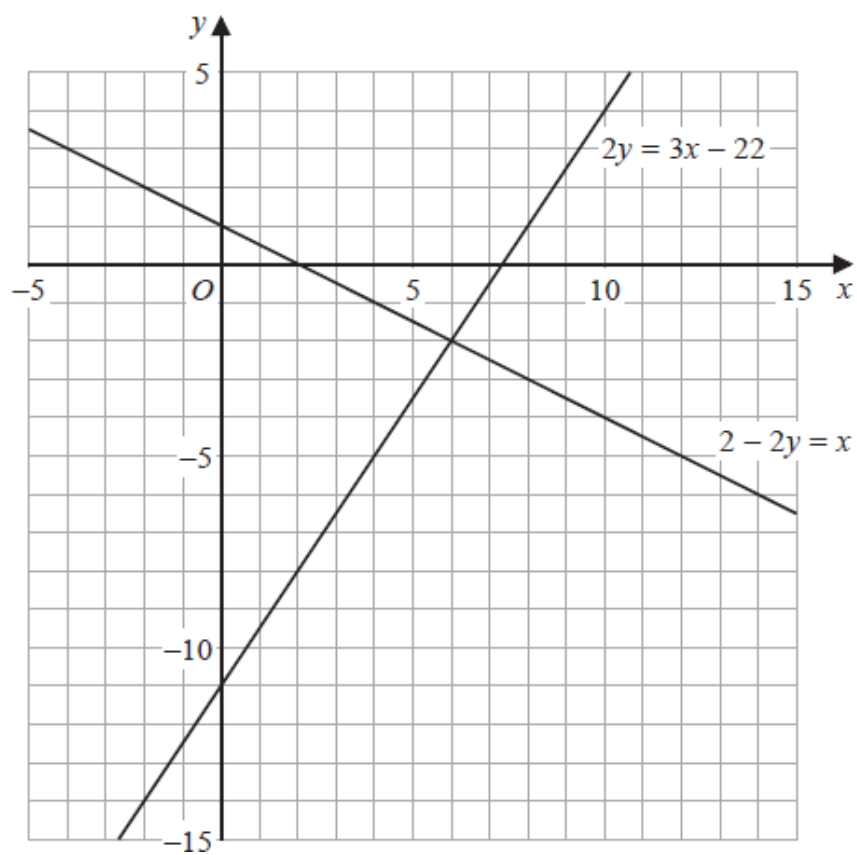
volume of 1500 cm^3
height of 50 cm.

The cylinder exerts a force of 120 newtons on the floor.
Work out the pressure on the floor due to the cylinder.

..... newtons/cm²

(Total for Question 8 is 3 marks)

9



Use these graphs to solve the simultaneous equations

$$2y = 3x - 22$$

$$2 - 2y = x$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for Question 9 is 1 mark)
