

9 Kamal sells 240 ice creams for a total of \$640

$\frac{1}{3}$ of the ice creams he sells are large.

The cost of each large ice cream he sells is \$3.80

All the other ice creams he sells are small.

He sells each small ice cream for the same cost.

Work out the cost of each small ice cream.

\$.....

(Total for Question 9 is 4 marks)

10 (a) Write the ratio 32 : 80 in its simplest form.

.....
(2)

There are only red counters and blue counters in a bag.

In the bag

the number of red counters : the number of blue counters = 5 : 7

(b) What fraction of the counters in the bag are red?

.....
(1)

(Total for Question 10 is 3 marks)



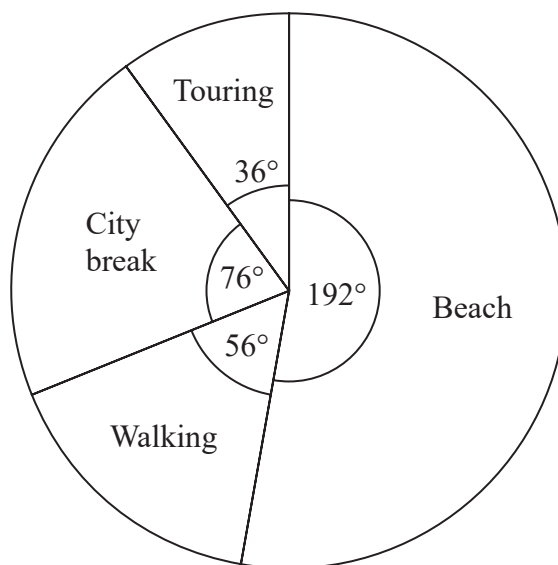
- 11 Kwo asked 40 people where they went on holiday last year.
He is going to draw a pie chart for his results.

16 of the 40 people said they went to Egypt.

- (a) Work out the size of the angle in the pie chart for Egypt.

.....
(2)

Tiffany asked some people what type of holiday they each like the best.
She used her results to draw this pie chart.



48 of the people that Tiffany asked said they like beach holidays the best.

- (b) Work out how many of the people Tiffany asked said they like walking holidays the best.

.....
(2)

(Total for Question 11 is 4 marks)



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12 Sam takes an English exam.
There are two papers in the exam.
Each paper has a maximum mark of 80

To pass the exam, Sam needs to get at least 60% of the total marks.

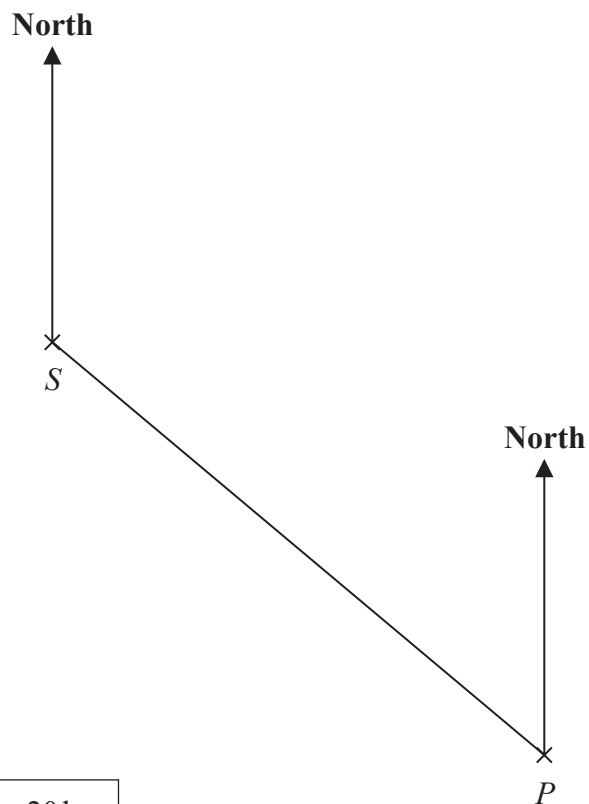
Sam gets 55% of the 80 marks in paper 1

Work out the least number of marks that Sam must get in paper 2 to pass the English exam.

.....
(Total for Question 12 is 4 marks)



- 13 The scale drawing shows the positions of a ship, S , and a port, P .



Scale: 1 cm represents 20 km

- (a) Find the bearing of S from P .

.....
(1)

The ship S now sails directly towards port P .
The ship sails at an average speed of 24 km/h.

- (b) Work out how long it takes the ship to get to P .
Give your answer correct to the nearest hour.

..... hours
(4)

(Total for Question 13 is 5 marks)



14 The point A has coordinates $(5, -4)$
The point B has coordinates $(13, 1)$

(a) Work out the coordinates of the midpoint of AB .

(..... ,)

(2)

Line L has equation $y = 2 - 3x$

(b) Write down the gradient of line L .

.....
(1)

Line L has equation $y = 2 - 3x$

(c) Does the point with coordinates $(100, -302)$ lie on line L ?
You must give a reason for your answer.

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

(Total for Question 14 is 4 marks)



15 (a) Find the highest common factor (HCF) of 28 and 70

.....
(2)

(b) Find the lowest common multiple (LCM) of 28 and 105

.....
(2)

(Total for Question 15 is 4 marks)

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16 The diagram shows a shape.

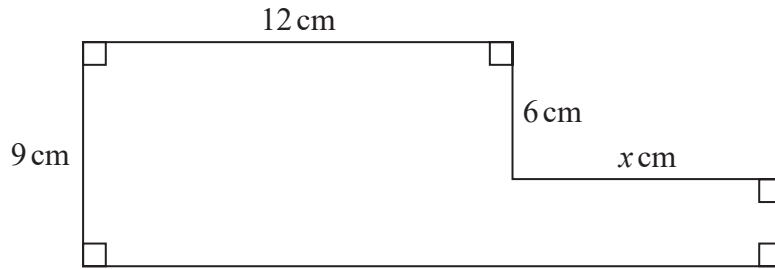


Diagram **NOT** accurately drawn

The shape has area 129 cm^2

Work out the value of x .

$x = \dots\dots\dots$

(Total for Question 16 is 4 marks)



P 5 9 7 5 2 A 0 1 7 2 4