

GCSE Grade 4

Maths

Booklet 1

Paper 2H

Calculator

www.ggmaths.co.uk

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 (a) Simplify $m^3 \times m^4$

.....
(1)

(b) Simplify $(5np^3)^3$

.....
(2)

(c) Simplify $\frac{32q^9r^4}{4q^3r}$

.....
(2)

(Total for Question 1 is 5 marks)

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- 2 (a) Find the lowest common multiple (LCM) of 40 and 56

.....
(2)

$$A = 2^3 \times 3 \times 5$$

$$B = 2^2 \times 3 \times 5^2$$

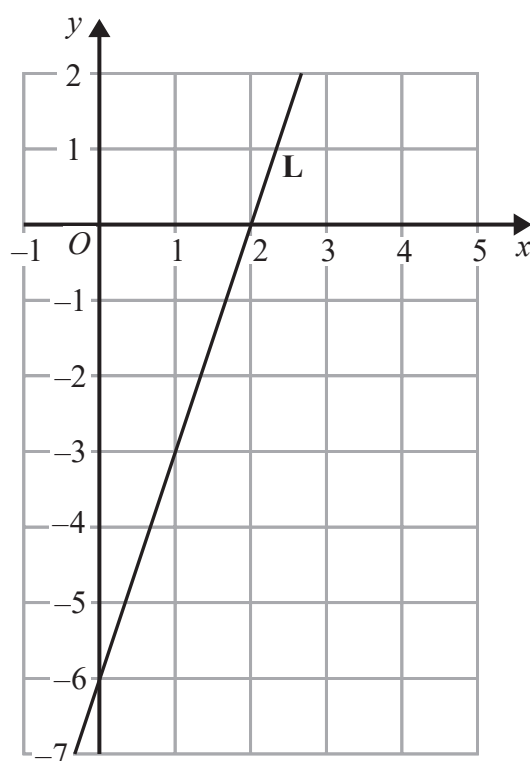
- (b) Write down the highest common factor (HCF) of A and B .

.....
(1)

(Total for Question 2 is 3 marks)



- 3 The line **L** is shown on the grid.



Find an equation for **L**.

(Total for Question 3 is 3 marks)



- 4 Raya buys a van for £8500 plus VAT at 20%

Raya pays a deposit for the van.

She then pays the rest of the cost in 12 equal payments of £531.25 each month.

Find the ratio of the deposit Raya pays to the total of the 12 equal payments.

Give your answer in its simplest form.

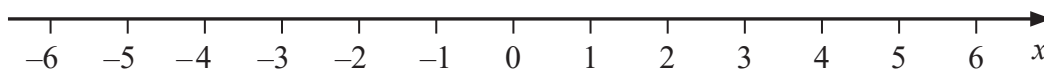
(Total for Question 4 is 5 marks)



5 (a) Solve $14n > 11n + 6$

(2)

(b) On the number line below, show the set of values of x for which $-2 < x + 3 \leq 4$



(3)

(Total for Question 5 is 5 marks)

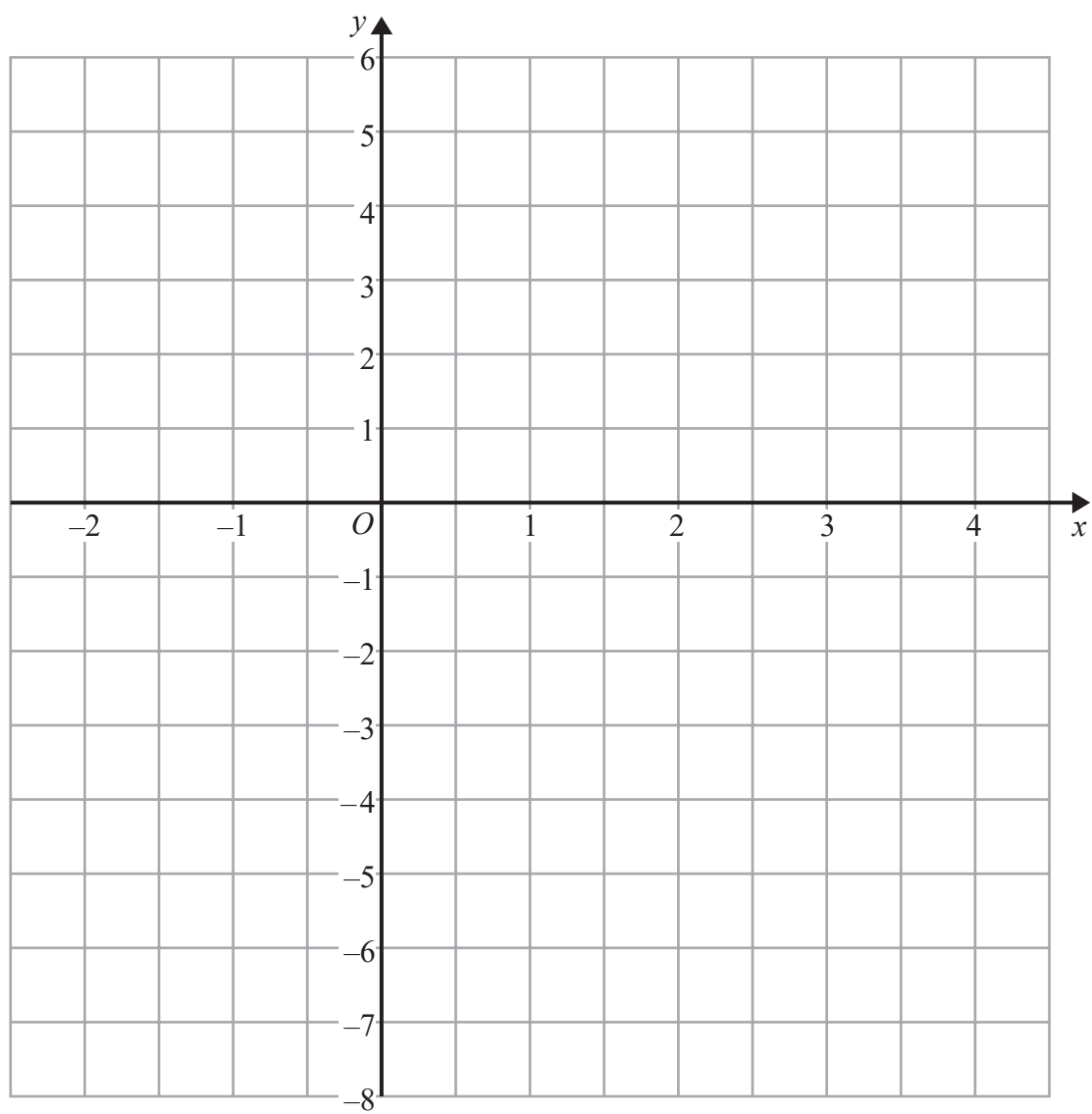


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6 On the grid below, draw the graph of $y = 2x - 3$ for values of x from -2 to 4



(Total for Question 6 is 3 marks)



7 Hannah is planning a day trip for 195 students.

She asks a sample of 30 students where they want to go.
Each student chooses one place.

The table shows information about her results.

Place	Number of students
Theme Park	10
Theatre	5
Sports Centre	8
Seaside	7

(i) Work out how many of the 195 students you think will want to go to the Theme Park.

.....
(2)

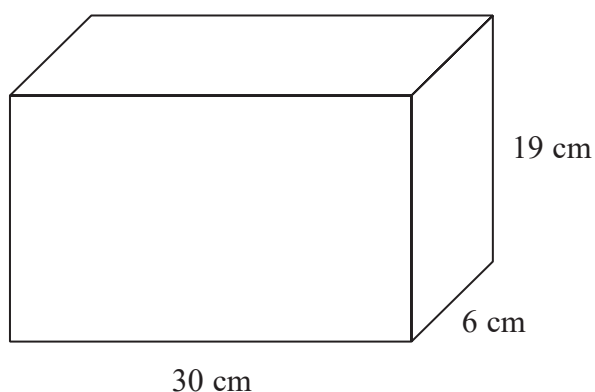
(ii) State any assumption you made **and** explain how this may affect your answer.

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

(Total for Question 7 is 3 marks)



- 8 A container is in the shape of a cuboid.



The container is $\frac{2}{3}$ full of water.

A cup holds 275 ml of water.

What is the greatest number of cups that can be completely filled with water from the container?

(Total for Question 8 is 4 marks)

