EXAM PAPERS PRACTICE

GCSE OCR Math J560

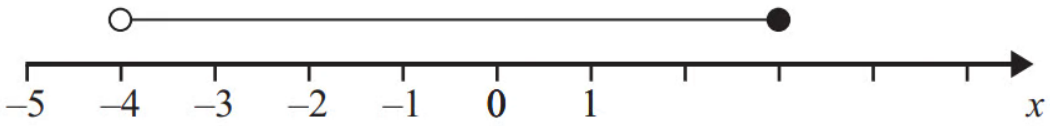
Inequalities

Question Paper

"We will help you to achieve A Star "

Question 1

(b)



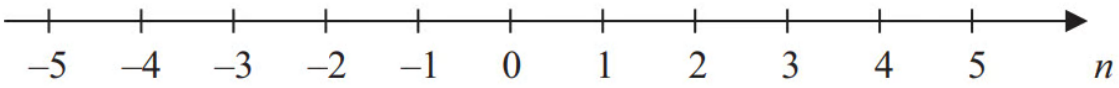
Write down the inequality shown in the diagram.

[2 marks]

Question 2

$-2 < n \leqslant 3$

(a) Represent this inequality on the number line.



[2 marks]

Question 3

$-3 < n \leqslant 1$

n is an integer.

(a) Write down all the possible values of n.

[2 marks]

Question 4

$-5 < y \leqslant 0$

y is an integer.

(a) Write down all the possible values of y.

[2 marks]

Question 5

Solve $3x - 5 < 16$

[2 marks]

Question 6

(b) Solve the inequality $4x - 7 \geqslant 13$

[2 marks]

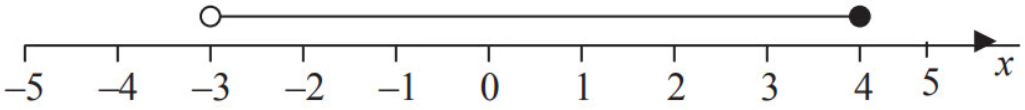
Question 7

(b) Solve $7x - 9 < 3x + 4$

[2 marks]

Question 8

(b) Here is an inequality, in x, shown on a number line.



Write down the inequality.

[2 marks]

Question 9

n is an integer with $-5 < 2n \leqslant 6$

Write down all the values of n

[2 marks]

Question 10

m is an integer such that $-2 < m \leqslant 3$

(a) Write down all the possible values of m.

[2 marks]

Question 11

(a) Solve the inequality $6y + 5 > 8$

[2 marks]

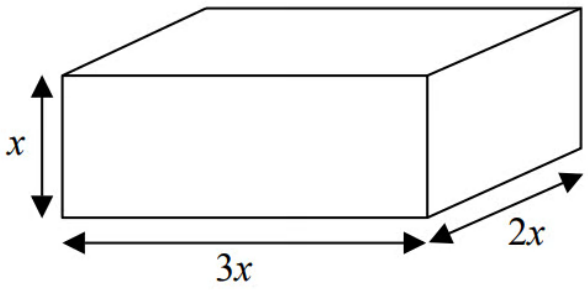
Question 12

Solve $6x + 4 > x + 17$

[2 marks]

Question 13

Here is a cuboid.



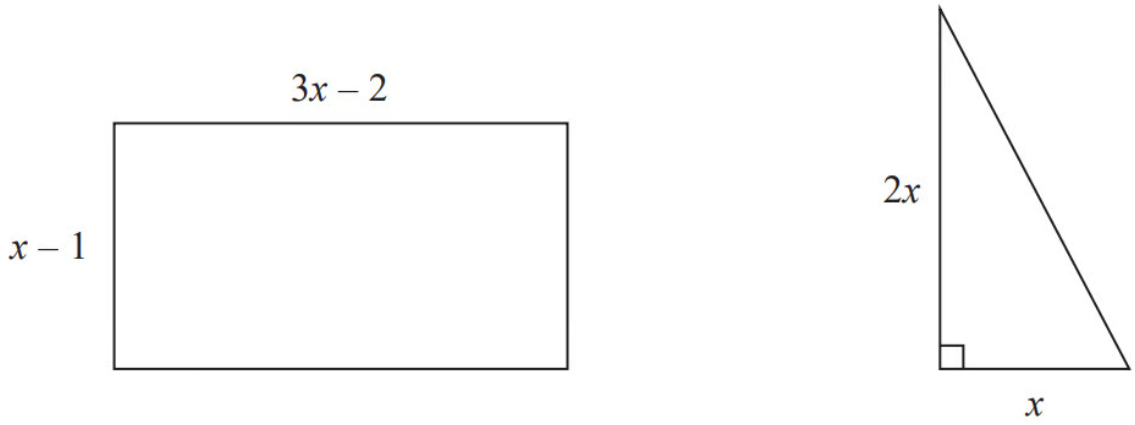
All measurements are in centimetres.
x is an integer.
The total volume of the cuboid is less than 900 cm^3

Show that $x \leqslant 5$

[3 marks]

Question 14

Here is a rectangle and a right-angled triangle.



All measurements are in centimetres.
The area of the rectangle is greater than the area of the triangle.

Find the set of possible values of x.

[5 marks]

Question 15

Solve $x^2 > 3x + 4$

[3 marks]