



EXAM PAPERS PRACTICE

GCSE Edexcel Math
1MA1
Inequalities

Question Paper

*"We will help you to
achieve A Star "*



Question 1

(a) n is an integer.

$$-1 \leq n < 4$$

List the possible values of n .

[2 marks]

Question 2

(c) Solve $y - 2 > 5$

[2 marks]

Question 3

(b) Solve the inequality $8x - 3 \geq 6x + 4$

[2 marks]



Question 4

(b) Solve the inequality $3p - 7 > 11$

[2 marks]

Question 5

(b) Solve $6(x - 2) > 15$

[2 marks]

Question 6

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

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

[2 marks]



Question 7

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

[2 marks]

Question 8

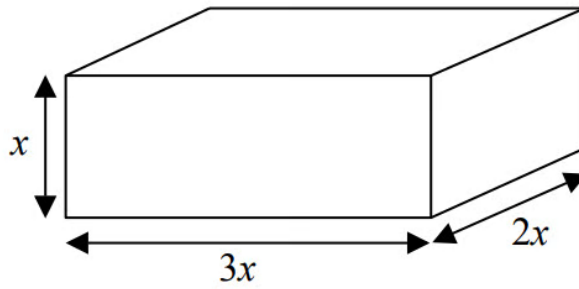
Solve $6x + 4 > x + 17$

[2 marks]



Question 9

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 $x \leq 5$

[3 marks]

Question 10

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

[2 marks]



Question 11

Solve $2x^2 + 3x - 2 > 0$

[3 marks]

Question 12

n is an integer such that $3n + 2 \leq 14$ and $\frac{6n}{n^2 + 5} > 1$

Find all the possible values of n .

[5 marks]

Question 13

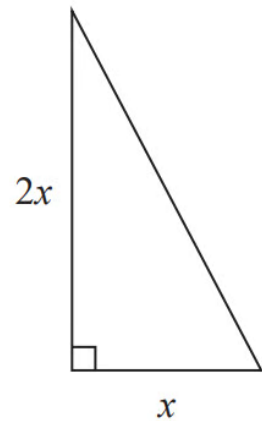
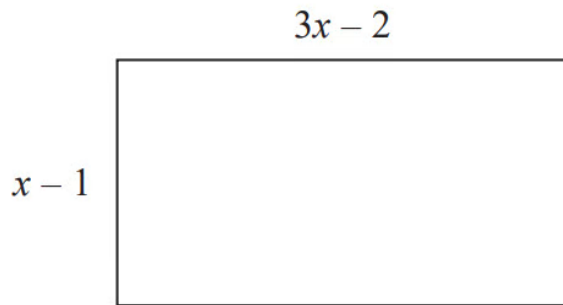
Solve the inequality $x^2 > 3(x + 6)$

[4 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]