

QT Quick Test 5D

Non Calculator



1. $6x^2 = 384$. Find the value of x .

(2 marks)

2. Find the lowest common multiple (LCM) of 84 and 120.

(3 marks)

3. A team of road workers can resurface $\frac{5}{6}$ km of a road each day. How many days will it take to resurface a road of length 30km?

(3 marks)

4. Work out the value of $0.000035 \div 0.0007$

(2 marks)

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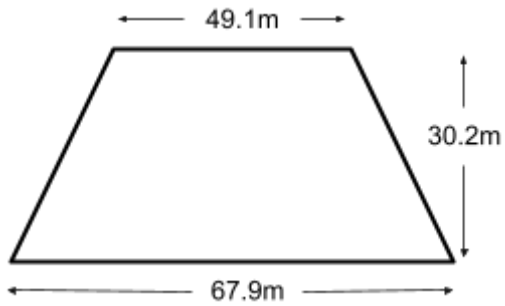
Non Calculator



5. A farmer has a field in the shape of a trapezium as shown.

(a) Work out an estimate for the area of the field.

(3 marks)



(b) Is your answer an overestimate or underestimate? Give a reason for your answer.

(1 mark)

6. Work out, giving your answers in standard form

(a) $4.6 \times 10^3 + 6.7 \times 10^5$

(2 marks)

(b) $9.8 \times 10^6 - 5.1 \times 10^4$

(2 marks)

7. Write down $\frac{2}{11}$ as a recurring decimal.

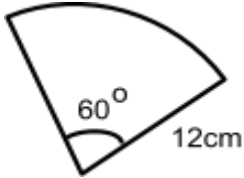
(1 mark)

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8. Work out the area of the sector of the circle radius 12cm shown. Give your answer in terms of π , in its simplest form . (3 marks)



9. Find the equation of the straight line which passes through the points (3,2) and (6,11) (3 marks)

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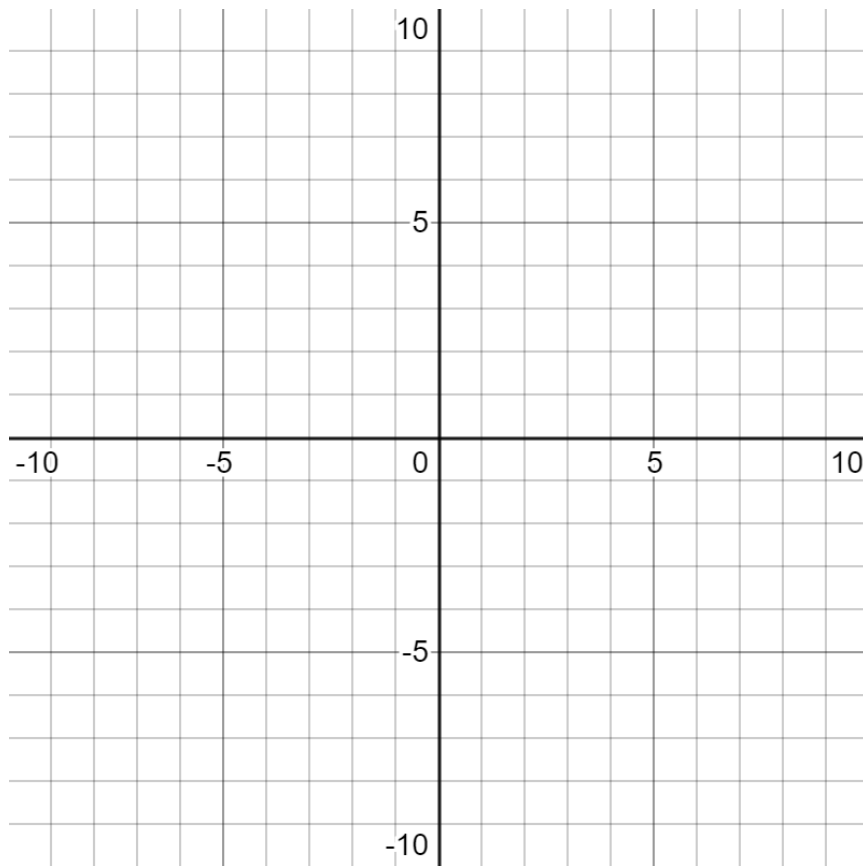
10 (a) Complete the table of values for $y = x^2 - x - 4$

x	-3	-2	-1	0	1	2	3
y				-4	-4		

(b) On the grid, draw the graph $y = x^2 - x - 4$ (3 marks)

(c) Use the graph to estimate the values of x when $y = 4$ (1 mark)

(d) Use the graph to estimate the turning point of $y = x^2 - x - 4$ (1 mark)



(Total 30 marks)