

MATHS TEACHER HUB
GCSE Higher revision sheet - 2

1. Work out

$$15 \times \text{£}2.75$$

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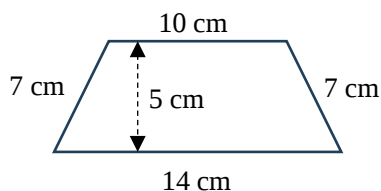
2. $a = 2^2 \times 3 \times 7$

$$b = 2 \times 5 \times 7$$

Find the highest common factor of a and b .

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3. Work out the area of the trapezium.



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4. Work out the n th term of this arithmetic sequence

$$18, 15, 12, 9$$

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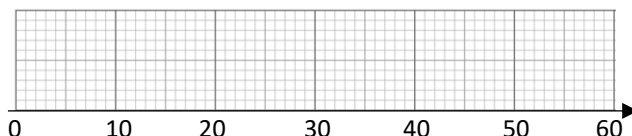
5. Solve

$$8m + 2 > 2m - 10$$

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6. Draw a box plot for the following information.

Min	IQR	LQ	Median	Max
12	21	25	34	49

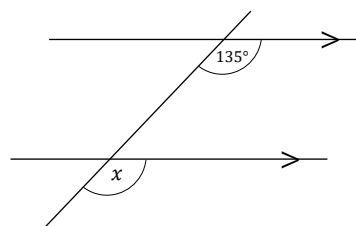


7. Simplify

$$2\frac{1}{2} \div \frac{4}{5}$$

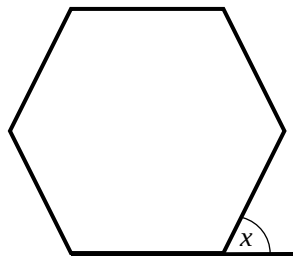
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8. Work out the value of x .
 Give a reason for your answer.



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9. Below is a regular polygon.
Work out the value of x



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10. Complete the table for the graph
 $y = 2x^2 + 3x$

x	-2	-1	0	1	2	3
y		-1			14	

11. A motorcycle has been reduced
from £8500 to £8075.
What percentages has the bike
been reduced by?

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12. Sketch the graph of $y = \sin(x)$
for $0 \leq x < 360$.



13. $a = 1.4$ correct to 1 decimal place.
 $b = 0.7$ correct to 1 decimal place.
Work out the upper bound of c .

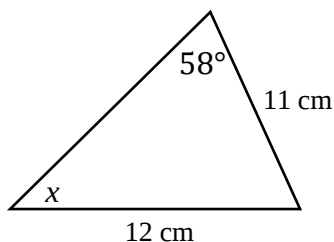
$$c = \frac{a}{b}$$

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14. Solve $x^2 - 5x - 24 > 0$

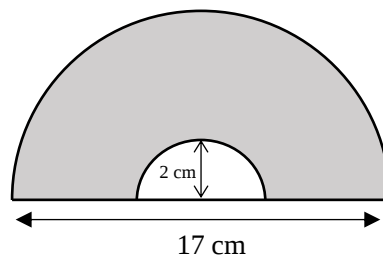
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15. Work out the value of x .



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16. Work out the area of the shaded
region in the semi-circle.



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