

MATHS TEACHER HUB
GCSE Higher revision sheet - 8

1. Work out

$$23.22 \div 18$$

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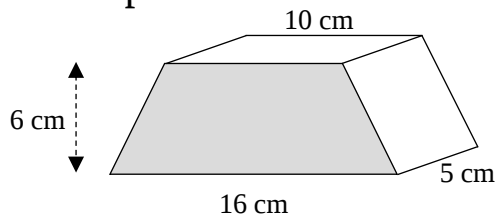
2. $a = 3^2 \times 5 \times 7$

$$b = 2^2 \times 3 \times 7$$

Find the lowest common multiples of a and b .

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3. Work out the volume of the trapezoid.



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

$$-9, -4, -1, 3,$$

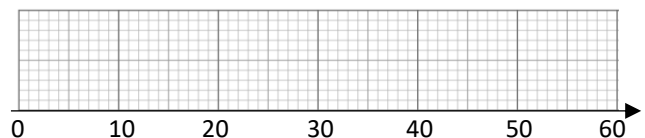
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5. Work out $3\frac{4}{5} \times 2\frac{1}{3}$

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6. Draw a box plot for the following information.

Min	LQ	IQR	Median	Range
7	12	19	27	52

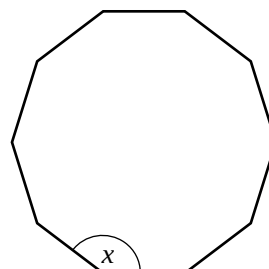


7. Simplify

$$4y + 3 < 10y - 2$$

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



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9. Complete the table for the graph
 $y = 5x - 2x^2$

x	-3	-2	-1	0	1	2
y		-18			3	

10. A van has been reduced in price to £11408
The original price was £12400
What % has the van been reduced by?

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



12. $e = 2.8$ correct to 1 decimal place.
 $f = 3.5$ correct to 1 decimal place.
Work out the upper bound of g .

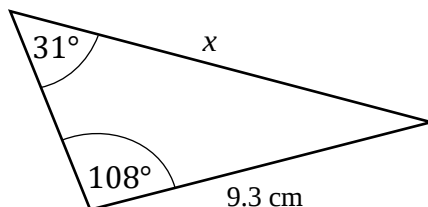
$$g = \frac{e^2}{f}$$

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13. Solve $2x^2 + 9x + 10 > 0$

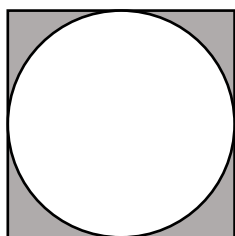
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14. Work out the value of x .



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15. The area of the circle is 154cm^2
Work out the area of the shaded region.



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16. The curve with equation $y = f(x)$ has a turning point of $(5, -2)$

Write down the coordinates of the turning point of the curve with an equation of $y = f(x - 1) + 3$

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