

 MATHS TEACHER HUB
GCSE Foundation revision sheet - 17

1. Fill in the boxes

$$\frac{3}{4} = \frac{\square}{12} = \frac{60}{\square}$$

2. Work out

$$2^3 + 3^2$$

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3. How many minutes are in 3 and a quarter hours?

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4. Simplify

$$h + h + h - h + h$$

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5. Simplify the ratio 50 : 20 in the form $n : 1$

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6. Factorise

$$w^2 + 4w$$

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7. There are 15 players in a squad.
3 of them are left footed.
What percentage are left footed?

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8. Expand and simplify

$$(e - 2)(e - 5)$$

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9. Use your calculator to work out

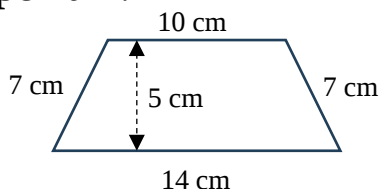
$$\frac{\sqrt{12.7 \times 8.2}}{4.3^2}$$

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10. A PC has been reduced by 15%.
It is now priced at £289.
Work out the price before the reduction.

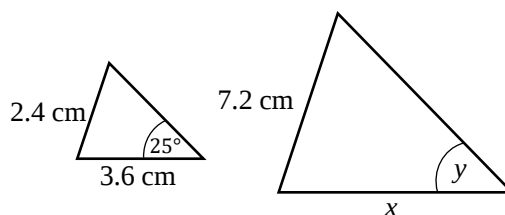
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11. Work out the area of the trapezium.



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12. The triangles below are similar.
Work out the value of x and y .



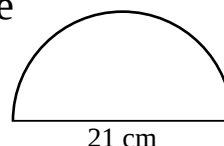
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13. The density of a house brick is 1.83 g/cm^3
Each brick has a volume of 1900 cm^3

Work out the mass of a house brick.

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14. Work out the area of this semi-circle

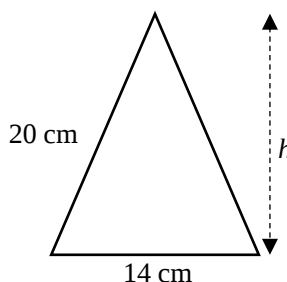


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15. In a class there are 8 girls and 6 boys.
The mean height of the girls is 154cm
The mean height of the boys is 160cm.
Work out the mean height of the class.

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16. Here is an isosceles triangle.
Work out the height.



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