

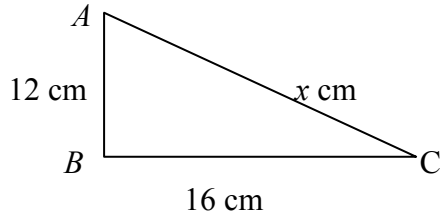
1. Solve the equation  $4x = 38$   $x =$  \_\_\_\_\_
  
2. Work out  $\frac{3}{5}$  of £90 £ \_\_\_\_\_
  
3. A car did a journey of 220 miles on 12 gallons of petrol.  
Work out the average number of miles per gallon done by the car.  
Give your answer to two decimal places \_\_\_\_\_ mpg
  
4. Solve the equation  $7y + 13 = 27$   $y =$  \_\_\_\_\_
  
5. There are 8 furlongs in a mile.  
How many furlongs are there in  $9\frac{1}{2}$  miles. \_\_\_\_\_ furlongs.
  
6. Work out  $£7.32 \times 43$  £ \_\_\_\_\_
  
7. George was given £70 for his birthday. He spent 6 times as much of it as he saved. Work out how much of it he saved. £ \_\_\_\_\_
  
8. Solve the equation  $4x + 1 = 2x + 6$  \_\_\_\_\_
  
9. The cost of hiring a coach is £50 plus £5 for every mile travelled.  
Work out the cost of hiring a coach and travelling 350 miles in it. £ \_\_\_\_\_
  
10. How many sixths are there in  $6\frac{1}{2}$  \_\_\_\_\_
  
11. I have two fair 4-sided dice,  
One dice is numbered 2, 4, 7 and 8. The other is numbered 3, 3, 4 and 6.  
I throw both dice and add the scores.  
What is the probability that the total is even. \_\_\_\_\_
  
12. The heights of Spanish dolls are in the ratio 4 : 6 : 8  
In a set of dolls, the height of the middle doll is 15 cm.  
What are the heights of the other dolls. \_\_\_\_\_ cm , \_\_\_\_\_ cm
  
13. Multiply out  $(y + 3)(y + 1)$  \_\_\_\_\_

14. Re-arrange the equation to make  $t$  the subject.

$$5(3 - t) = u.$$

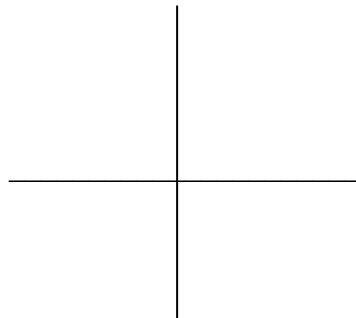
$$t = \text{-----}$$

15. Work out the length of  $AC$



----- cm

16. Sketch the graph of  $y = x^3$



17. Solve the equation

$$\frac{4(x + 1)}{3x} = 2$$

$$x = \text{-----}$$

18. Find the value of  $5^0$

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19. Look at the equation

$$80 = 5 \times 2^b$$

Work out the value of  $b$ .

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20. Work out  $30\,000\,000 \times 10^{-4}$ .

Give your answer in standard form.

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**Mark** \_\_\_\_\_  
**20**