

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

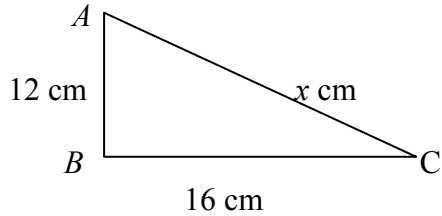
13. Multiply out $(y + 3)(y + 1)$ _____

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

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

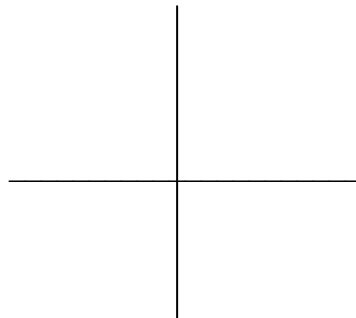
$$t = \text{-----}$$

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

19. Look at the equation

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

Work out the value of b .

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

Give your answer in standard form.

Mark _____
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