SOLVING LINEAR EQUATIONS

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1. $2x + 3 = 7$ $x = 2$
2. $5x - 4 = 11$ $x = 3$
3. $7x + 1 = 15$ $x = 2$
4. $4x - 5 = 3$ $x = 2$
5. $3x + 4 = 10$ $x = 2$
6. $6x - 7 = 11$ $x = 3$
7. $8x + 3 = 19$ $x = 2$
8. $9x - 2 = 16$ $x = 2$
9. $5x + 6 = 21$ $x = 3$
10. $10x - 4 = 26$ $x = 3$
11. $12x + 5 = 29$ $x = 2$
12. $15x - 8 = 37$ $x = 3$
13. $20x + 10 = 50$ $x = 2$
14. $25x - 15 = 60$ $x = 3$
15. $30x + 20 = 80$ $x = 2$

MASTER QUESTIONS

M1. A number multiplied by 4 and then added to 5 gives 17. Find the number.   The number is 3

M2. The sum of three consecutive integers is 18. Find the integers.   The integers are 5, 6, and 7

M3. A train travels 300 miles in 5 hours. Find its speed in miles per hour.

The speed is 60 mph

M4. The perimeter of a square is 20cm. Find the length of one side.

The length is 5cm

M5. A book costs £12 more than a pen. Together they cost £20. Find the cost of the pen.

The pen costs £4