SOLVING LINEAR EQUATIONS WHERE THE SOLUTIONS ARE NEGATIVES

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

MAIN QUESTIONS

1. $x + 5 = 0$ $x = -5$
2. $2x - 3 = -7$ $x = -2$
3. $4x + 8 = -4$ $x = -3$
4. $5x - 2 = -17$ $x = -3$
5. $3x + 10 = -5$ $x = -5$
6. $7x - 4 = -25$ $x = -3$
7. $6x + 12 = -6$ $x = -3$
8. $9x - 5 = -32$ $x = -3$
9. $8x + 16 = -8$ $x = -3$
10. $10x - 7 = -47$ $x = -4$
11. $12x + 24 = -12$ $x = -3$
12. $15x - 10 = -55$ $x = -3$
13. $20x + 40 = -20$ $x = -3$
14. $25x - 15 = -90$ $x = -3$
15. $30x + 60 = -30$ $x = -3$

MASTER QUESTIONS

M1. A number multiplied by 4 and then subtracted by 5 equals -17. Find the number.   The number is -3

M2. The sum of three times a number and 10 is -5. What is the number?

The number is -5

M3. A rectangle has a perimeter of 20cm and a length that is 2cm more than its width. Find the dimensions.

The rectangle is 6cm by 4cm

M4. If you subtract 7 from twice a number, the result is -15. What is the number?

The number is -4

M5. A train travels at a constant speed. If it covers 300 miles in 5 hours, how long will it take to cover 450 miles?

It will take 7.5 hours