

SOLVING NEGATIVE INEQUALITIES

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

MAIN QUESTIONS

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|-----------------------|------------------------|
| 1. $-2x > 4$ | 2. $-3x \leq 9$ |
| 3. $-5x + 2 > 12$ | 4. $-4x - 3 \leq 5$ |
| 5. $7 - 2x < 11$ | 6. $-x/2 > 3$ |
| 7. $-3x/4 \leq 6$ | 8. $2 - 5x \geq 17$ |
| 9. $-6x + 7 < -5$ | 10. $-9x - 4 > 14$ |
| 11. $8 - 3x \leq -4$ | 12. $-5x + 10 \geq 25$ |
| 13. $-2x/3 + 1 < 5$ | 14. $-4x - 7 > 9$ |
| 15. $6 - 8x \leq -10$ | 16. $-7x + 3 \geq -18$ |

MASTER QUESTIONS



- M1.** A number multiplied by -3 and then increased by 5 is less than 11 . Find the possible values of the number.
- M2.** The product of -4 and a number is greater than or equal to 20 . Find the possible values of the number.
- M3.** Twice a number subtracted from 10 is less than -6 . Find the possible values of the number.

- M4.** A taxi fare costs £2.50 plus £1.50 per mile. If you have £20, what is the maximum number of miles you can travel without exceeding your budget?