

SOLVING ONE AND TWO STEP INEQUALITIES – ANSWERS

SPIRAL



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| S1. Find the mean of 5, 7 and 9 | S2. A shirt costs £20. What is the price after a 10% increase? |
| 7 | £22 |
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| S3. Simplify $3a + 2b + a - b$ | S4. Calculate 1.5×0.4 |
| $4a + b$ | 0.6 |

DEVELOP

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|----------------------------|------------|-----------------------------|-------------|
| 1. $x + 3 > 5$ | $x > 2$ | 2. $2x \leq 10$ | $x \leq 5$ |
| 3. $4x + 2 < 18$ | $x < 4$ | 4. $5x - 3 \geq 12$ | $x \geq 3$ |
| 5. $3x + 5 \leq 20$ | $x \leq 5$ | 6. $x - 4 \leq 7$ | $x \leq 11$ |
| 7. $6x \geq 24$ | $x \geq 4$ | 8. $x/3 < 5$ | $x < 15$ |
| 9. $2x + 5 > 13$ | $x > 4$ | 10. $7x - 3 \leq 25$ | $x \leq 4$ |

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| 11. | $x + 8 \geq 12$ | $x \geq 4$ | 12. | $9x < 45$ | $x < 5$ |
| 13. | $x/4 \geq 6$ | $x \geq 24$ | 14. | $5x + 7 \leq 22$ | $x \leq 3$ |
| 15. | $4x - 2 > 14$ | $x > 4$ | 16. | $x/2 + 3 \leq 8$ | $x \leq 10$ |
| 17. | $8x + 4 \geq 28$ | $x \geq 3$ | 18. | $2x - 5 < 7$ | $x < 6$ |
| 19. | $x/5 + 1 > 4$ | $x > 15$ | 20. | $6x + 3 \leq 21$ | $x \leq 3$ |
| 21. | $3x - 4 \geq 11$ | $x \geq 5$ | 22. | $x/6 + 2 < 5$ | $x < 18$ |
| 23. | $10x + 7 > 47$ | $x > 4$ | 24. | $5x - 2 \leq 23$ | $x \leq 5$ |
| 25. | $x/7 - 1 \geq 2$ | $x \geq 21$ | | | |

APPLY



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|-----|---|-----------------|
| A1. | Tom saves £5 each week. How many weeks until he has at least £50? | 10 weeks |
| A2. | A bus can carry 60 people. 42 are already on board. How many more people can board? | Up to 18 people |
| A3. | A taxi charges £3 plus £2 per mile. You have £15. What is the maximum miles you can travel? | 6 miles |
| A4. | A bookshelf holds 8 books per shelf. How many shelves are needed for 30 books? | 4 shelves |
| A5. | Pens cost £2 each. How many can be bought with £15? | 7 pens |