

SOLVING ONE AND TWO STEP INEQUALITIES – ANSWERS

SPIRAL



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