

Basic Solving Practice #3

1. $6x = 10$

2. $x - 3.4 = 12$

3. $x + 7 = 6$

4. $3x = 8$

5. $\frac{x}{4} = 1$

6. $14x = 9$

7. $x - 13 = -5$

8. $\frac{x}{1.2} = -5$

9. $x - 4 = 12$

10. $2.4x = 6$

11. $4x - 7 = 5$

12. $5 + 2x = 9$

13. $2.5x + 1 = 2$

14. $4x - 2 = 3$

15. $-6 = 8x - 2$

16. $2x + 3 = 5$

17. $3x - 1 = 7$

18. $5x - 9 = 2$

19. $4x + 5 = 10$

20. $8 = 2x - 5$

Answers: Basic Solving Practice #3

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|-----|----------------------|--|---------------------------------------|
| 1. | $6x = 10$ | $6x \div 6 = 10 \div 6$ | $x = 1.667$ or $\frac{5}{3}$ |
| 2. | $x - 3.4 = 12$ | $x - 3.4 + 3.4 = 12 + 3.4$ | $x = 15.4$ |
| 3. | $x + 7 = 6$ | $x + 7 - 7 = 6 - 7$ | $x = -1$ |
| 4. | $3x = 8$ | $3x \div 3 = 8 \div 3$ | $x = 2.667$ or $\frac{8}{3}$ |
| 5. | $\frac{x}{4} = 1$ | $\frac{x}{4} \times 4 = 1 \times 4$ | $x = 4$ |
| 6. | $14x = 9$ | $14x \div 14 = 9 \div 14$ | $x = 0.643$ or $\frac{9}{14}$ |
| 7. | $x - 13 = -5$ | $x - 13 + 13 = -5 + 13$ | $x = 8$ |
| 8. | $\frac{x}{1.2} = -5$ | $\frac{x}{1.2} \times 1.2 = -5 \times 1.2$ | $x = -6$ |
| 9. | $x - 4 = 12$ | $x - 4 + 4 = 12 + 4$ | $x = 16$ |
| 10. | $2.4x = 6$ | $\frac{2.4x}{2.4} = \frac{6}{2.4}$ | $x = 2.5$ or $\frac{5}{2}$ |
| 11. | $4x - 7 = 5$ | $4x - \cancel{7} + \cancel{7} = 5 + 7$ | $4x = 12$ $x = 3$ |
| 12. | $5 + 2x = 9$ | $\cancel{5} - \cancel{5} + 2x = 9 - 5$ | $2x = 4$ $x = 2$ |
| 13. | $2.5x + 1 = 2$ | $2.5x + \cancel{1} - \cancel{1} = 2 - 1$ | $2.5x = 1$ $x = 0.4$ $= \frac{2}{5}$ |
| 14. | $4x - 2 = 3$ | $4x - \cancel{2} + \cancel{2} = 3 + 2$ | $4x = 5$ $x = 1.25$ $= \frac{5}{4}$ |
| 15. | $-6 = 8x - 2$ | $-6 + 2 = 8x - \cancel{2} + \cancel{2}$ | $-4 = 8x$ $x = -0.5$ $= -\frac{1}{2}$ |
| 16. | $2x + 3 = 5$ | $2x + \cancel{3} - \cancel{3} = 5 - 3$ | $2x = 2$ $x = 1$ |
| 17. | $3x - 1 = 7$ | $3x - \cancel{1} + \cancel{1} = 7 + 1$ | $3x = 8$ $x = 2.667$ $= \frac{8}{3}$ |
| 18. | $5x - 9 = 2$ | $5x - \cancel{9} + \cancel{9} = 2 + 9$ | $5x = 11$ $x = 2.2$ $= \frac{11}{5}$ |
| 19. | $4x + 5 = 10$ | $4x + \cancel{5} - \cancel{5} = 10 - 5$ | $4x = 5$ $x = 1.25$ $= \frac{5}{4}$ |
| 20. | $8 = 2x - 5$ | $8 + 5 = 2x - \cancel{5} + \cancel{5}$ | $13 = 2x$ $x = 6.5$ $= \frac{13}{2}$ |

It is preferable to leave answers in improper fraction form, provided it is simplified and any negative sign is on the numerator. Decimal form is not better, although still acceptable.