

## Basic Solving Practice #2

1.  $x + 14 = -5$

2.  $11x = 2$

3.  $\frac{x}{7} = -5$

4.  $x - 2 = 10$

5.  $x + 3.2 = 9$

6.  $8x = 7$

7.  $x - 2 = -1$

8.  $\frac{x}{1.8} = 5$

9.  $x + 4.5 = 3$

10.  $1.5x = 6$

11.  $10x + 7 = -4$

12.  $3x - 8 = -1$

13.  $10x + 5 = -8$

14.  $10 - 12x = 2$

15.  $7x - 7 = -3$

16.  $12x + 5 = 9$

17.  $2x - 4 = 2$

18.  $5 + 9x = -9$

19.  $5x + 1 = -9$

20.  $12x + 3 = 5$

## Answers: Basic Solving Practice #2

- |     |                     |                                           |             |             |                    |
|-----|---------------------|-------------------------------------------|-------------|-------------|--------------------|
| 1.  | $x + 14 = -5$       | $x + 14 - 14 = -5 - 14$                   | $x = -19$   |             |                    |
| 2.  | $11x = 2$           | $11x \div 11 = 2 \div 11$                 | $x = 0.182$ | or          | $\frac{2}{11}$     |
| 3.  | $\frac{x}{7} = -5$  | $\frac{x}{7} \times 7 = -5 \times 7$      | $x = -35$   |             |                    |
| 4.  | $x - 2 = 10$        | $x - 2 + 2 = 10 + 2$                      | $x = 12$    |             |                    |
| 5.  | $x + 3.2 = 9$       | $x + 3.2 - 3.2 = 9 - 3.2$                 | $x = 5.8$   |             |                    |
| 6.  | $8x = 7$            | $8x \div 8 = 7 \div 8$                    | $x = 0.875$ | or          | $\frac{7}{8}$      |
| 7.  | $x - 2 = -1$        | $x - 2 + 2 = -1 + 2$                      | $x = 1$     |             |                    |
| 8.  | $\frac{x}{1.8} = 5$ | $\frac{x}{1.8} \times 1.8 = 5 \times 1.8$ | $x = 9$     |             |                    |
| 9.  | $x + 4.5 = 3$       | $x + 4.5 - 4.5 = 3 - 4.5$                 | $x = -1.5$  |             |                    |
| 10. | $1.5x = 6$          | $\frac{1.5x}{1.5} = \frac{6}{1.5}$        | $x = 4$     |             |                    |
| 11. | $10x + 7 = -4$      | $10x + 7 - 7 = -4 - 7$                    | $10x = -11$ | $x = -1.1$  | $= -\frac{11}{10}$ |
| 12. | $3x - 8 = -1$       | $3x - 8 + 8 = -1 + 8$                     | $3x = 7$    | $x = 2.333$ | $= \frac{7}{3}$    |
| 13. | $5 + 9x = 9$        | $5 - 5 + 9x = 9 - 5$                      | $9x = 4$    | $x = 0.556$ | $= \frac{4}{9}$    |
| 14. | $10x + 5 = -8$      | $10x + 5 - 5 = -8 - 5$                    | $10x = -13$ | $x = -1.3$  | $= -\frac{13}{10}$ |
| 15. | $2 = 10 - 12x$      | $2 - 10 = 10 - 10 - 12x$                  | $-8 = -12x$ | $x = 0.667$ | $= \frac{2}{3}$    |
| 16. | $7x - 7 = 3$        | $7x - 7 + 7 = 3 + 7$                      | $7x = 10$   | $x = 1.429$ | $= \frac{10}{7}$   |
| 17. | $12x + 5 = 9$       | $12x + 5 - 5 = 9 - 5$                     | $12x = 4$   | $x = 0.333$ | $= \frac{1}{3}$    |
| 18. | $2 = 2x - 4$        | $2 + 4 = 2x - 4 + 4$                      | $6 = 2x$    | $x = 3$     |                    |
| 19. | $5x + 1 = -9$       | $5x + 1 - 1 = -9 - 1$                     | $5x = -10$  | $x = -2$    |                    |
| 20. | $3 + 12x = 5$       | $3 - 3 + 12x = 5 - 3$                     | $12x = 2$   | $x = 0.167$ | $= \frac{1}{6}$    |

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.