

$px + q = r$

Name: _____ Date: _____

Solve. Undo the addition or subtraction first, then the multiplication.

1. $3n + 4 = 22$

$n = \underline{\hspace{2cm}}$

2. $9m - 13 = 95$

$m = \underline{\hspace{2cm}}$

3. $9x + 13 = 31$

$x = \underline{\hspace{2cm}}$

4. $9x + 8 = 62$

$x = \underline{\hspace{2cm}}$

5. $7x + 1 = 15$

$x = \underline{\hspace{2cm}}$

6. $2k - 7 = 9$

$k = \underline{\hspace{2cm}}$

7. $2t - 8 = 12$

$t = \underline{\hspace{2cm}}$

8. $5m - 8 = 27$

$m = \underline{\hspace{2cm}}$

9. $6m - 11 = 1$

$m = \underline{\hspace{2cm}}$

10. $3k + 10 = 22$

$k = \underline{\hspace{2cm}}$

11. $8y + 7 = 87$

$y = \underline{\hspace{2cm}}$

12. $9k + 13 = 103$

$k = \underline{\hspace{2cm}}$

With negative numbers

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Solve. Some numbers and answers are negative.

1. $6x + 8 = -10$

$x =$ _____

2. $4m - 4 = -24$

$m =$ _____

3. $2k - 1 = -17$

$k =$ _____

4. $7t + 9 = -40$

$t =$ _____

5. $7n - 4 = 10$

$n =$ _____

6. $-9m - 14 = -59$

$m =$ _____

7. $9y - 3 = 69$

$y =$ _____

8. $-4t + 1 = 21$

$t =$ _____

9. $-9n + 2 = 38$

$n =$ _____

10. $-2k + 1 = -3$

$k =$ _____

11. $9y - 1 = 8$

$y =$ _____

12. $-9t + 10 = -8$

$t =$ _____

$p(x + q) = r$

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Solve. Divide both sides first, or distribute and then solve.

1. $7(t - 5) = 7$

$t = \underline{\hspace{2cm}}$

2. $-3(k + 4) = 15$

$k = \underline{\hspace{2cm}}$

3. $2(m + 9) = 32$

$m = \underline{\hspace{2cm}}$

4. $7(n + 4) = 63$

$n = \underline{\hspace{2cm}}$

5. $4(y + 2) = -32$

$y = \underline{\hspace{2cm}}$

6. $8(k + 1) = 40$

$k = \underline{\hspace{2cm}}$

7. $-9(k - 2) = -72$

$k = \underline{\hspace{2cm}}$

8. $8(n + 9) = 32$

$n = \underline{\hspace{2cm}}$

9. $8(x - 1) = -80$

$x = \underline{\hspace{2cm}}$

10. $-7(t - 7) = 119$

$t = \underline{\hspace{2cm}}$

11. $-9(m - 1) = 36$

$m = \underline{\hspace{2cm}}$

12. $-6(y - 4) = 18$

$y = \underline{\hspace{2cm}}$

Division equations

Name: _____ Date: _____

Solve. Undo the addition or subtraction, then multiply.

1. $y \div 2 - 7 = -10$

$y =$ _____

2. $y \div 6 + 9 = 6$

$y =$ _____

3. $y \div 4 + 10 = 16$

$y =$ _____

4. $y \div 5 - 9 = -2$

$y =$ _____

5. $x \div 4 - 2 = 2$

$x =$ _____

6. $m \div 3 - 4 = -9$

$m =$ _____

7. $t \div 6 + 7 = 5$

$t =$ _____

8. $m \div 2 - 12 = -13$

$m =$ _____

9. $m \div 3 + 11 = 4$

$m =$ _____

10. $n \div 5 + 9 = 17$

$n =$ _____

11. $m \div 6 + 8 = 7$

$m =$ _____

12. $t \div 6 - 5 = 1$

$t =$ _____