

$px + q = r$

Name: _____ Date: _____

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

1. $4n + 20 = 48$

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

2. $3k - 1 = 32$

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

3. $6m + 8 = 68$

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

4. $9t + 18 = 108$

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

5. $4t - 5 = 15$

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

6. $8k + 3 = 19$

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

7. $2k - 1 = 11$

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

8. $9y - 13 = 86$

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

9. $8m - 15 = 73$

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

10. $7n + 2 = 23$

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

11. $6n - 14 = 58$

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

12. $8y + 13 = 93$

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

With negative numbers

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Solve. Some numbers and answers are negative.

1. $-4y + 13 = -15$

$y =$ _____

2. $9k + 7 = -56$

$k =$ _____

3. $-3t + 11 = -19$

$t =$ _____

4. $6x - 13 = 47$

$x =$ _____

5. $-7y + 13 = -8$

$y =$ _____

6. $-9n - 2 = 7$

$n =$ _____

7. $-6m + 4 = 58$

$m =$ _____

8. $-8k + 7 = -9$

$k =$ _____

9. $7y - 14 = -35$

$y =$ _____

10. $-9y - 12 = 60$

$y =$ _____

11. $8k + 15 = -57$

$k =$ _____

12. $4n + 4 = 0$

$n =$ _____

$p(x + q) = r$

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

1. $-5(y - 8) = 40$

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

2. $2(y - 5) = -6$

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

3. $5(m + 7) = 45$

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

4. $8(t - 6) = 24$

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

5. $-2(t + 4) = -4$

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

6. $8(k + 1) = -72$

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

7. $9(m + 1) = -81$

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

8. $9(m - 5) = -126$

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

9. $2(t - 1) = 8$

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

10. $9(x - 8) = -162$

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

11. $3(y - 6) = -48$

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

12. $-5(k + 7) = -20$

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

Division equations

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Solve. Undo the addition or subtraction, then multiply.

1. $t \div 4 - 2 = -3$

$t =$ _____

2. $n \div 5 - 9 = -14$

$n =$ _____

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

$k =$ _____

4. $n \div 5 - 10 = -13$

$n =$ _____

5. $y \div 3 + 2 = 12$

$y =$ _____

6. $y \div 3 - 11 = -16$

$y =$ _____

7. $k \div 3 + 6 = 8$

$k =$ _____

8. $n \div 4 + 8 = 10$

$n =$ _____

9. $x \div 6 + 6 = 9$

$x =$ _____

10. $n \div 5 + 4 = 5$

$n =$ _____

11. $y \div 5 + 8 = 11$

$y =$ _____

12. $m \div 4 + 6 = 11$

$m =$ _____