# Add Linear Expressions

You can add expressions using the properties of operations.

Let's try it! Simplify (2x – 15) + (–5x + 9).

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|---|---|
| (2x – 15) + (–5x + 9) | *Identify like terms.* |
| [2x + (–5x)] + (–15 + 9) | *Use the commutative and associative properties to reorder and group like terms.* |
| –3x + (–6) | *Combine like terms.* |
| –3x – 6 | *Rewrite addition as subtraction to simplify the final expression.* |

## Try it yourself! Find each sum.

**1.** (–3m + 7) + (4m – 12)

m – 5

**2.** (–2h + 8) + (–6h + 4)

–8h + 12

**3.** (9p – 3) + (–11p – 8)

–2p – 11

**4.** (–t – 14) + (8t + 6)

7t – 8

**5.** (4c + 13) + (–c + 5d – 7)

3c + 5d + 6

**6.** (3v – 8w + 19) + (6w – 6)

3v – 2w + 13

**7.** (2j + 10k – 7) + (–5j – 6k + 9)

–3j + 4k + 2

**8.** (3f – 20g – 1) + (–f + 4g – 9)

2f – 16g – 10

**9.** (–0.2n – 6.5) + (5.3n + 9.4)

5.1m + 2.9

**10.** $\left(\frac{3}{4}z - \frac{3}{8}\right) + \left(\frac{1}{4}z + \frac{7}{8}\right)$

$z + \frac{1}{2}$

**11.** (–3.1a + 5.26) + (–2.5a + 4.75b – 12.4)

–5.6a + 4.75b – 7.14

**12.** $\left(\frac{2}{5}x - \frac{5}{6}y - 9\right) + \left(-\frac{4}{5}x + 4\right)$

$-\frac{2}{5}x - \frac{5}{6}y - 5$