

Split the middle term; factor by grouping

Name:

Side 1 of 2

GCF FIRST > PRODUCT ac , SUM b > SPLIT > GROUP > FACTOR > CHECK

E1. Find the pair; then vote.

Product 18; sum 11.

E2. Factor; then vote.

$$3x(2x + 3) + (2x + 3)$$

W1. Follow the worked example.

$$6x^2 + 11x + 3$$

Pair, split, groups, product, and check:

P1. Try the method yourself.

$$6x^2 + 7x + 2$$

Pair, split, groups, product, and check:

H1. Choose a split in Top Hat. Explain both conditions.

$$6x^2 + x - 2$$

What product and sum do you need?

W2. Continue H1: group, factor, and check the negative sign.

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Show your work. The exit check is at the bottom.

Side 2 of 2

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W3. GCF first: follow the example.

$$6x^2 + 15x + 9$$

P2. Work; then explain to a partner.

$$6x^2 - 15x + 9$$

P3. Use the full method independently. Expand to check.

$$4x^2 - 4x - 3$$

EXIT CHECK | Independent work. Cover earlier work; no notes.

X1. Split, group, factor, and check.

$$6x^2 - 7x - 3$$

X2. Correct the sign error; factor.

$$6x^2 - x - 2$$

$$= 3x(2x + 1) - 2(2x - 1)$$

Explain why the sign must change.