

Intermediate Algebra
Skill-BUILDER # PF - 3
Finding Two Numbers that Multiply to One Number and Add Up to Another

Examples

1.

$$\begin{array}{c} \diagup \quad + \quad \diagdown \\ ? \quad 12 \quad ? \\ \cdot \\ 35 \\ \diagdown \end{array} \Rightarrow \begin{array}{c} \diagup \quad + \quad \diagdown \\ 7 \quad 12 \quad 5 \\ \cdot \\ 35 \\ \diagdown \end{array}$$

2.

$$\begin{array}{c} \diagup \quad + \quad \diagdown \\ ? \quad 9 \quad ? \\ \cdot \\ -22 \\ \diagdown \end{array} \Rightarrow \begin{array}{c} \diagup \quad + \quad \diagdown \\ 11 \quad 9 \quad -2 \\ \cdot \\ -22 \\ \diagdown \end{array}$$

3.

$$\begin{array}{c} \diagup \quad + \quad \diagdown \\ ? \quad -11 \quad ? \\ \cdot \\ -60 \\ \diagdown \end{array} \Rightarrow \begin{array}{c} \diagup \quad + \quad \diagdown \\ -15 \quad -11 \quad 4 \\ \cdot \\ -60 \\ \diagdown \end{array}$$

4.

$$\begin{array}{c} \diagup \quad + \quad \diagdown \\ ? \quad -18 \quad ? \\ \cdot \\ 45 \\ \diagdown \end{array} \Rightarrow \begin{array}{c} \diagup \quad + \quad \diagdown \\ -15 \quad -18 \quad -3 \\ \cdot \\ 45 \\ \diagdown \end{array}$$

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Finding Two Numbers that Multiply to One Number and Add Up to Another

Find two numbers that add to the top number and multiply to the bottom number.

1.

$$\begin{array}{c} + \\ ? \quad 13 \quad ? \\ \cdot \\ 42 \end{array}$$

2.

$$\begin{array}{c} + \\ ? \quad -12 \quad ? \\ \cdot \\ -64 \end{array}$$

3.

$$\begin{array}{c} + \\ ? \quad 2 \quad ? \\ \cdot \\ -63 \end{array}$$

4.

$$\begin{array}{c} + \\ ? \quad -17 \quad ? \\ \cdot \\ 72 \end{array}$$

5.

$$\begin{array}{c} + \\ ? \quad -11 \quad ? \\ \cdot \\ -42 \end{array}$$

6.

$$\begin{array}{c} + \\ ? \quad 24 \quad ? \\ \cdot \\ 63 \end{array}$$

7.

$$\begin{array}{c} + \\ ? \quad 27 \quad ? \\ \cdot \\ -90 \end{array}$$

8.

$$\begin{array}{c} + \\ ? \quad -11 \quad ? \\ \cdot \\ -80 \end{array}$$

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Finding Two Numbers that Multiply to One Number and Add Up to Another

Answers

1. 6 and 7

2. -16 and 4

3. 9 and -7

4. -8 and -9

5. -14 and 3

6. 21 and 3

7. 30 and -3

8. -16 and 5

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