

Decompose fractions

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Use the explanations to discuss the idea. A worked answer is one example; equivalent answers may also be valid.

1. Write $\frac{3}{5}$ as a sum of two positive fractions with denominator 5.

$\frac{1}{5} + \frac{2}{5}$ (other positive sums with denominator 5 are valid)

One possible sum is $\frac{1}{5} + \frac{2}{5}$. Any two positive numerators totaling 3, each over 5, work; either order is valid.



2. Write $\frac{2}{2}$ as a sum of two positive fractions with denominator 2.

$\frac{1}{2} + \frac{1}{2}$ (other positive sums with denominator 2 are valid)

One possible sum is $\frac{1}{2} + \frac{1}{2}$. Any two positive numerators totaling 2, each over 2, work; either order is valid.



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3. Write $87/100$ as a sum of two positive fractions with denominator 100.

$1/100 + 86/100$ (other positive sums with denominator 100 are valid)

One possible sum is $1/100 + 86/100$. Any two positive numerators totaling 87, each over 100, work; either order is valid.

4. Write $4/10$ as a sum of two positive fractions with denominator 10.

$1/10 + 3/10$ (other positive sums with denominator 10 are valid)

One possible sum is $1/10 + 3/10$. Any two positive numerators totaling 4, each over 10, work; either order is valid.

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5. Write $\frac{2}{3}$ as a sum of two positive fractions with denominator 3.

$\frac{1}{3} + \frac{1}{3}$ (other positive sums with denominator 3 are valid)

One possible sum is $\frac{1}{3} + \frac{1}{3}$. Any two positive numerators totaling 2, each over 3, work; either order is valid.

6. Write $\frac{10}{4}$ as a sum of two positive fractions with denominator 4. Which reason would help you solve this correctly?

Split the 10 parts into two nonempty groups. Keep the denominator 4.

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7. Split a $13/5$ -meter ribbon into two positive lengths. Write both lengths with denominator 5.

$1/5 + 12/5$ (other positive sums with denominator 5 are valid)

One possible sum is $1/5 + 12/5$. Any two positive numerators totaling 13, each over 5, work; either order is valid.

8. Write 2 as a fraction with denominator 8.

$16/8$

$2 \times 8 = 16$ parts, so $2 = 16/8$.