

Decompose fractions

Review & apply · 8 questions · US Letter

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

1. Write $6/10$ as a sum of two positive fractions with denominator 10.

$1/10 + 5/10$ (other positive sums with denominator 10 are valid)

One possible sum is $1/10 + 5/10$. Any two positive numerators totaling 6, each over 10, work; either order is valid.



2. Write $277/100$ as a sum of two positive fractions with denominator 100.

$1/100 + 276/100$ (other positive sums with denominator 100 are valid)

One possible sum is $1/100 + 276/100$. Any two positive numerators totaling 277, each over 100, work; either order is valid.

Decompose fractions

Review & apply · 8 questions · US Letter

3. Write $\frac{4}{8}$ as a sum of two positive fractions with denominator 8.

$\frac{1}{8} + \frac{3}{8}$ (other positive sums with denominator 8 are valid)

One possible sum is $\frac{1}{8} + \frac{3}{8}$. Any two positive numerators totaling 4, each over 8, work; either order is valid.

4. Write $\frac{7}{6}$ as a sum of two positive fractions with denominator 6. Which reason would help you solve this correctly?

Split the 7 parts into two nonempty groups. Keep the denominator 6.

Decompose fractions

Review & apply · 8 questions · US Letter

5. Split a $6/3$ -meter ribbon into two positive lengths. Write both lengths with denominator 3.

$1/3 + 5/3$ (other positive sums with denominator 3 are valid)

One possible sum is $1/3 + 5/3$. Any two positive numerators totaling 6, each over 3, work; either order is valid.

6. Split a $3/3$ -meter ribbon into two positive lengths. Write both lengths with denominator 3.

$1/3 + 2/3$ (other positive sums with denominator 3 are valid)

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

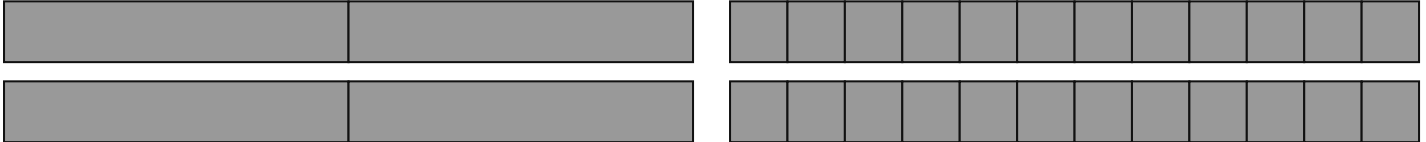
Decompose fractions

Review & apply · 8 questions · US Letter

7. Fill in the missing numerator: $4/2 = ?/12$.

24

$4/2 = (4 \times 6)/(2 \times 6) = 24/12$. The whole and the shaded amount stay the same.



8. Write 4 as a fraction with denominator 8.

32/8

$4 \times 8 = 32$ parts, so $4 = 32/8$.