

PIZZA SLICES ADDED

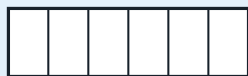
- 1 Find a common denominator for $\frac{1}{3}$ and $\frac{1}{4}$. Twelfths work because $3 \times 4 = 12$.
- 2 Rewrite $\frac{1}{3}$ as $\frac{4}{12}$ by multiplying top and bottom by 4.
- 3 Rewrite $\frac{1}{4}$ as $\frac{3}{12}$ by multiplying top and bottom by 3.
- 4 Add the rewritten fractions: $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$.

WARM-UP

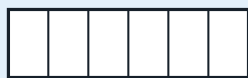
Shade the matching fraction strips to show each calculation.



$\frac{1}{2} = \frac{\quad}{6} \text{ (shade)}$



$\frac{1}{3} = \frac{\quad}{6} \text{ (shade)}$



$\text{sum} = \frac{\quad}{6} \text{ (combine shading)}$

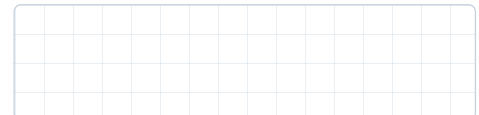


$\frac{3}{4} - \frac{1}{3} = \frac{\quad}{12} \text{ (work on this strip)}$

1. Shade the strips to show $\frac{1}{2} + \frac{1}{5}$ rewritten over tenths
2. Shade the strips to show $\frac{3}{4} - \frac{1}{3}$ rewritten over twelfths
3. Shade the strips to show $\frac{2}{5} + \frac{3}{10}$ rewritten over tenths

PRACTICE

- 1 I ate $\frac{1}{4}$ of the pizza and my friend ate $\frac{1}{5}$ of the pizza. How much of the pizza did we eat between us?
- 2 At the market stall I bought $\frac{1}{2}$ kg of apples and then $\frac{1}{4}$ kg of pears. How much fruit did I buy in total?
- 3 A bottle held $\frac{5}{6}$ litre of fresh juice. We poured out $\frac{1}{2}$ litre for breakfast. How much juice remains in the bottle?



? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. Fractions with different denominators can be added after both are rewritten with a common denominator
- b. The common denominator must be the product of the two denominators
- c. After adding over a common denominator, the answer simplifies.
- d. Two fractions with different denominators add to a fraction whose denominator is the sum of the two denominators