

Equivalent fractions

1 Draw lines to match the equivalent fractions.

$\frac{2}{3}$	$\frac{4}{11}$	$\frac{25}{50}$	$\frac{6}{7}$	$\frac{9}{12}$
$\frac{18}{21}$	$\frac{1}{2}$	$\frac{10}{15}$	$\frac{3}{4}$	$\frac{16}{44}$

Write the missing numbers in the equations below each strip.

$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
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2 $\frac{1}{3} = \frac{\square}{12}$

3 $\frac{2}{3} = \frac{\square}{12}$

$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
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4 $\frac{1}{4} = \frac{\square}{12}$

5 $\frac{3}{4} = \frac{\square}{12}$

$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$	$\frac{1}{12}$
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6 $\frac{1}{6} = \frac{\square}{12}$

7 $\frac{5}{6} = \frac{\square}{12}$

Add these fractions using equivalent fractions.

8 $\frac{2}{3} + \frac{3}{4}$

9 $\frac{5}{6} + \frac{1}{4}$

10 $\frac{1}{6} + \frac{3}{4}$

11 $\frac{2}{3} + \frac{1}{2}$

12 $\frac{5}{6} + \frac{1}{12}$

Think about it

Sam used this method for adding fractions:

$$\frac{5}{6} + \frac{3}{4} =$$

	5	6	
3	3 × 5 = 15	3 × 6 = 18	18 + 20 = 38 (this is the numerator)
4	4 × 5 = 20	4 × 6 = 24	

$\frac{5}{6} + \frac{3}{4} = \frac{38}{24}$ (24 is the denominator)

$$\frac{38}{24} = 1\frac{14}{24} = 1\frac{7}{12}$$

Can you see how this works?

13 Choose one of the additions you did before and try it out...

$\frac{2}{3} + \frac{3}{4}$

$\frac{5}{6} + \frac{1}{4}$

$\frac{1}{6} + \frac{3}{4}$

$\frac{2}{3} + \frac{1}{2}$

$\frac{5}{6} + \frac{1}{12}$

- 1) Draw a hash tag sign (big enough to write in).
- 2) Write one of the fractions across the top.
- 3) Write the other fraction down the side.
- 4) Cross out the middle box.
- 5) Multiply as you would in grid multiplication and complete the hash tag.
- 6) Add the highlighted numbers and put them over the denominator, which is in the bottom-right box.

Now try it on these two or use another method.

14 $\frac{1}{3} + \frac{6}{7} =$

15 $\frac{3}{5} + \frac{5}{6} =$

16 Can you explain how the hash tag method for adding fractions works?

I found this:



Easy



Challenging



I needed help