

Math 7
5.1 Addition of Fractions

NAME:
Date:

After a long day of marking tests Mr. Trask has worked up quite the appetite. He eats $\frac{1}{4}$ of a blueberry pie and then $\frac{1}{3}$ of an apple pie. How much pie did he eat in total?

$\frac{1}{4}$ ← numerator
 $\frac{1}{4}$ ← denominator
equivalent fractions
 $\frac{3}{12}$

$\frac{1}{3}$
 $\frac{4}{12}$

$\frac{1}{4} + \frac{1}{3} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12}$

*note - need common denominator

Look at the pattern in our equivalent fractions.

$\frac{1}{4} \times 3 = \frac{3}{12}$
 $\frac{1}{3} \times 4 = \frac{4}{12}$

To get an equivalent fractions we multiply the numerator and denominator by the same number.

Ex.

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

Lowest common denominator = LCD

① Find the multiples = LCM

6: 6, 12, 18, 24, 30, 36

9: 9, 18, 27, 36, 45

② Create equivalent fractions

$\frac{4}{9} \times 2 = \frac{8}{18}$

$\frac{5}{6} \times 3 = \frac{15}{18}$

improper

③ Add it up!
 $\frac{8}{18} + \frac{15}{18} = \frac{23}{18}$

Homework: p. 179 #1,2 odd, 3, 4 and 5 odd, 6