

Adding Common Fractions

CAPS: Grade 4, Term 3

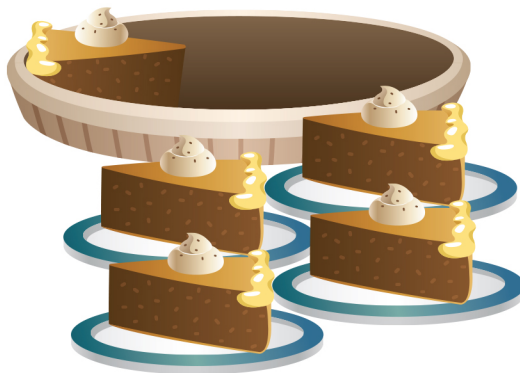
Numbers, Operations, Relationships

Calculations with fractions: Adding common fractions with same denominators.

Note

A common fraction is a fraction where both the numerator and denominator are whole numbers (integers).

numerator	→	6	←	(number of pieces there are)
denominator	→	8	←	(number of equal pieces an object has been divided into)



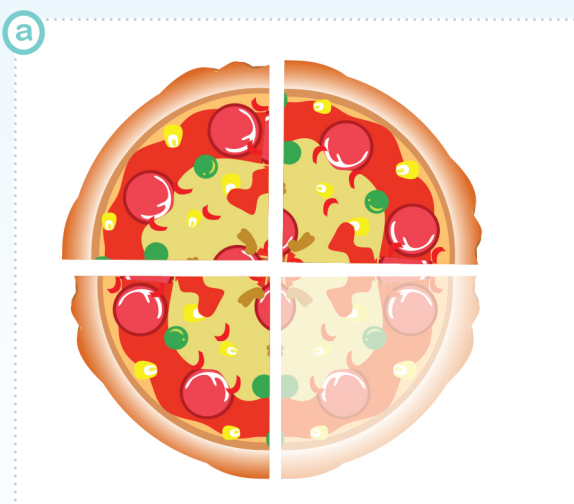
← This cake has been divided into 5 equal pieces. There is 1 piece left. $\frac{1}{5}$.

← Kate and her friends have taken 4 pieces. We say they have taken $\frac{4}{5}$.

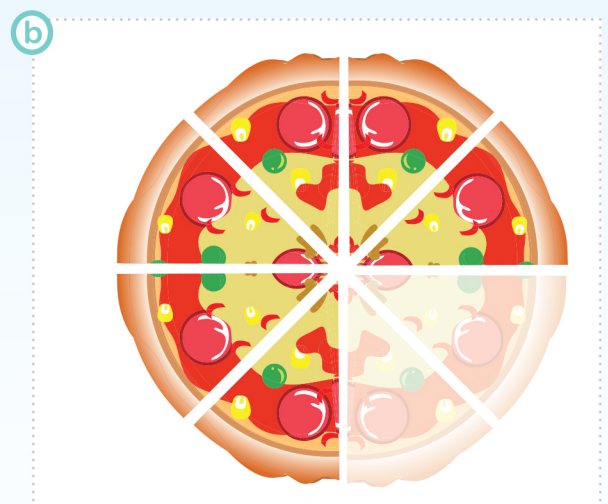
Activity 1

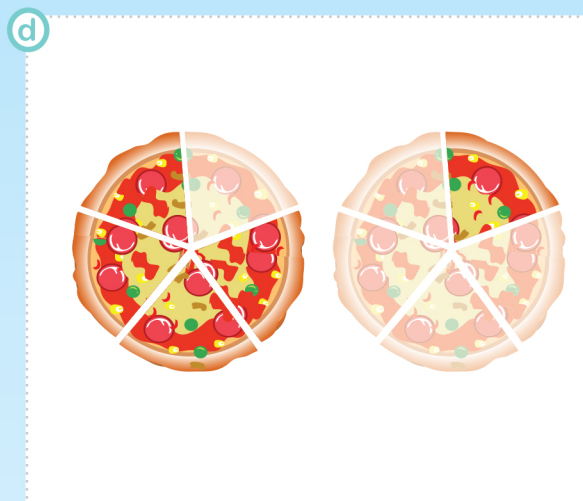
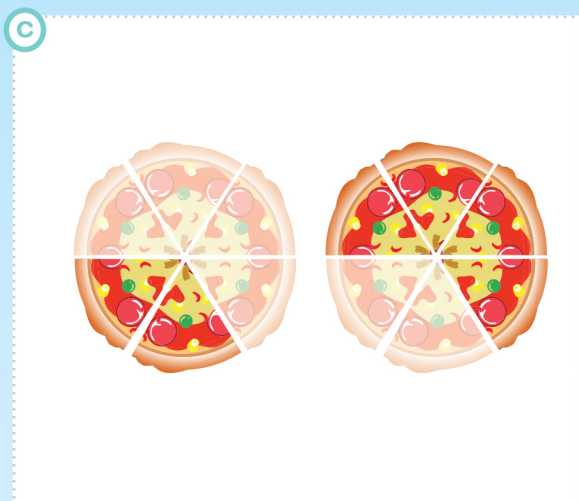
Write the common fraction for each picture. One has been done for you.

(the remaining/uneaten slices)	→	numerator
(the number of equal pieces the pizza has been divided into)	→	denominator



$\frac{3}{4}$

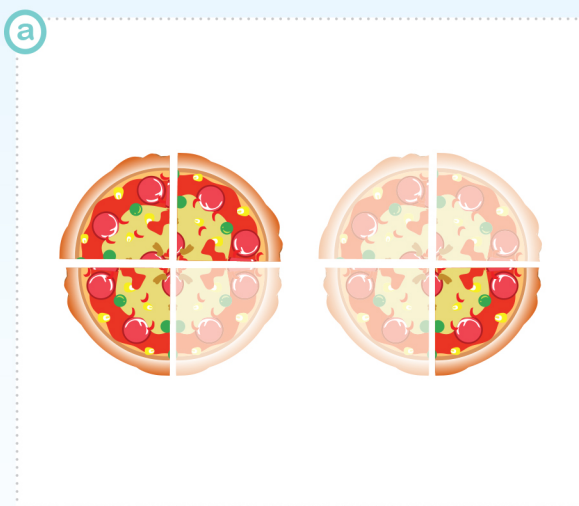
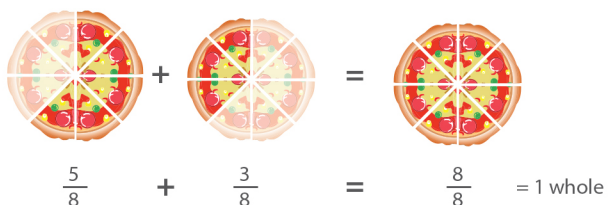




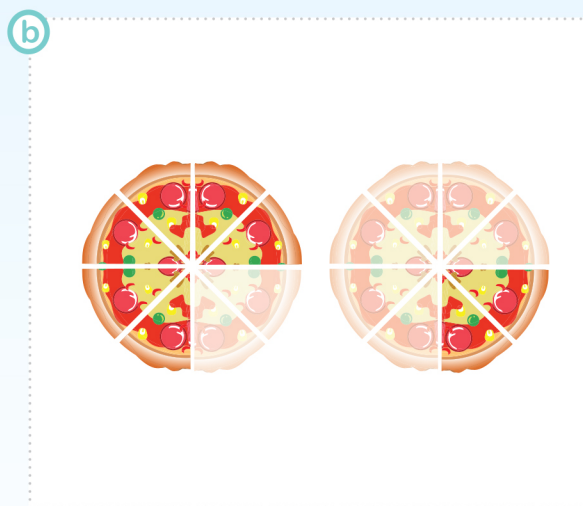
Activity 2

Complete the common fraction addition sum. When we add common fractions, we add the numerator. We are adding the 'pieces'.

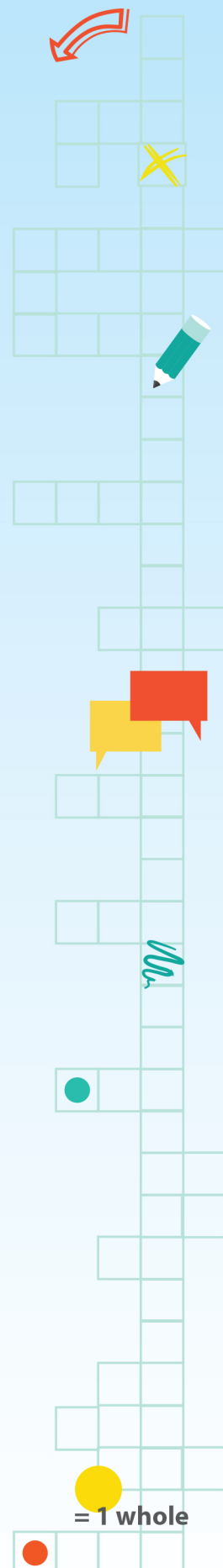
Example



$$\frac{3}{4} + \underline{\hspace{2cm}} = \frac{4}{4} = 1 \text{ whole}$$



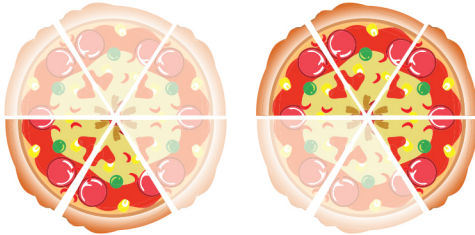
$$\frac{6}{8} + \underline{\hspace{2cm}} = \frac{8}{8}$$



= 1 whole

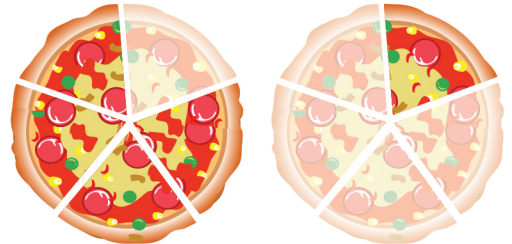


c



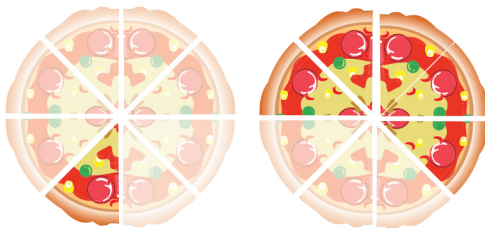
$$\frac{2}{6} + \underline{\hspace{2cm}} = \frac{6}{6} = 1 \text{ whole}$$

d



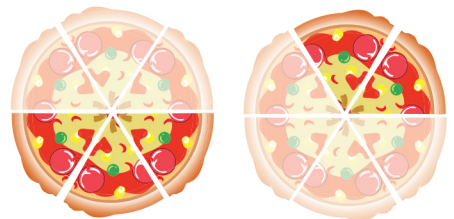
$$\frac{4}{5} + \underline{\hspace{2cm}} = \frac{5}{5} = 1 \text{ whole}$$

e



$$\frac{1}{8} + \underline{\hspace{2cm}} = \frac{6}{8}$$

f



$$\frac{3}{6} + \underline{\hspace{2cm}} = \frac{5}{6}$$

Activity 3

Remember, when adding fractions with the same denominators, you add the numerators and leave the denominators as they are.

Example

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



Note

Always remember: When we add common fractions we always add the numerator – 'to count the pieces'.

The numerator is the number at the top and the denominator is the number at the bottom.

Tip: When the numerator and the denominator are the same, example, $\frac{8}{8}$. This means 1 whole.

The object has been divided equally into 8 pieces (denominator) and the numerator says you have all 8 pieces. That means you have the whole amount.

Therefore $\frac{8}{8} = 1$ whole.

a	$\frac{4}{8} + \frac{2}{8} =$	Answer:	b	$\frac{3}{5} + \frac{2}{5} =$	Answer:
c	$\frac{2}{6} + \frac{1}{6} =$	Answer:	d	$\frac{1}{8} + \frac{3}{8} =$	Answer:
e	$\frac{1}{4} + \frac{1}{4} =$	Answer:	f	$\frac{1}{2} + \frac{1}{2} =$	Answer:
g	$\frac{5}{10} + \frac{3}{10} =$	Answer:	h	$\frac{6}{12} + \frac{4}{12} =$	Answer:
i	$\frac{3}{9} + \frac{4}{9} =$	Answer:	j	$\frac{8}{12} + \frac{1}{12} =$	Answer:
k	$\frac{4}{8} + \frac{4}{8} =$	Answer:	l	$\frac{4}{10} + \frac{5}{10} =$	Answer:
m	$\frac{2}{4} + \frac{1}{4} =$	Answer:	n	$\frac{1}{8} + \frac{2}{8} =$	Answer:
o	$\frac{6}{8} + \frac{1}{8} =$	Answer:	p	$\frac{3}{5} + \frac{1}{5} =$	Answer:
q	$\frac{1}{10} + \frac{7}{10} =$	Answer:	r	$\frac{3}{12} + \frac{3}{12} =$	Answer:

Teacher Tip

Common fractions- numerator and denominator are whole numbers. When the numerator and denominator are the same $\frac{4}{4}$ - it is equal to 1 whole. If the numerator is bigger than the denominator it is an improper fraction $\frac{7}{5}$ or a mixed number $1\frac{2}{5}$.

