Pizza puzzle

Compare and order fractions with the same denominator

You will need:
- Resource 39: Pizza quarters
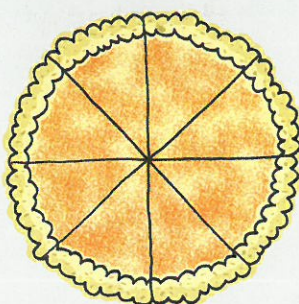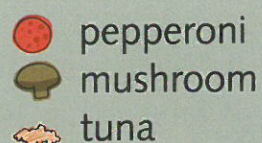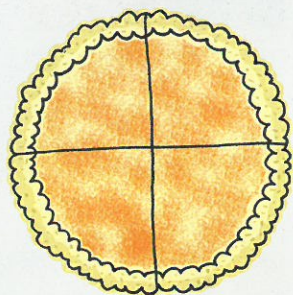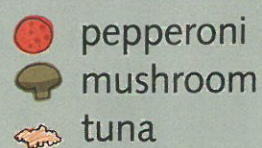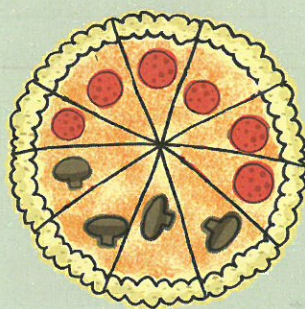- Resource 40: Pizza eighths
- Resource 41: Pizza tenths

pepperoni
mushroom
tuna
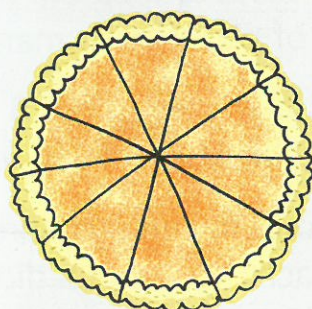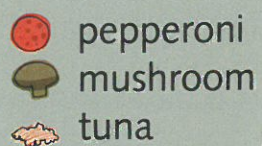
Challenge 1

1 Choose different toppings. Using pizzas that are divided into quarters, how many different combinations can you create? Remember you can only use one topping per slice!

2 For each pizza, write the fraction for one of the toppings.

pepperoni
mushroom
tuna

Challenge 2

1 Choose different toppings. Using pizzas that are divided into eighths, how many different combinations can you create? Remember you can only use one topping per slice!

2 For each pizza, write the fraction for one of the toppings.

pepperoni
mushroom
tuna

Challenge 3

1 Choose different ingredients. Using pizzas that are divided into tenths, how many different combinations can you create? Remember you can only use one topping per slice!

2 For each pizza, write the fraction for one of the toppings.

3 Write a fraction addition for each pizza.

Example

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

Subtracting fractions

Subtract fractions within one whole

You will need:
- interlocking cubes of 2 different colours
- coloured pencils

Challenge 1

1 Make a rod using 6 cubes in two different colours. Put cubes of the same colour together.

   a Draw it in your book.

   b Write a fraction subtraction to show the answer when the cubes of one colour are removed from the whole rod.

   c Repeat the above twice more with different numbers of each colour.

Example

$\frac{6}{6} - \frac{1}{6} = \frac{5}{6}$

2 Make one more rod using 5 cubes. Put cubes of the same colour together. Draw it in your book. Write a fraction subtraction to show the answer when the cubes of one colour are removed from the whole rod.

Challenge 2

1 Look at these rods. Write a fraction subtraction to show the answer when the cubes of one colour are removed from the whole rod.

a   b   c
d   e   f

2 Draw three rods of your own and colour each one in two colours. Write a fraction subtraction to show the answer when the cubes of one colour are removed from the whole rod.

Challenge 3

1 a $\frac{4}{4} - \frac{1}{4} =$ b $\frac{5}{5} - \frac{4}{5} =$ c $\frac{6}{6} - \frac{2}{6} =$ d $\frac{8}{8} - \frac{3}{8} =$ e $\frac{10}{10} - \frac{3}{10} =$

2 Explain why $\frac{8}{8}$ is the same as one whole.

3 a $\frac{3}{3} -$ ___ $= \frac{1}{3}$ b $\frac{5}{5} -$ ___ $= \frac{3}{5}$ c $\frac{6}{6} -$ ___ $= \frac{5}{6}$ d $\frac{8}{8} -$ ___ $= \frac{6}{8}$