

Comparing fractions

National curriculum attainment targets

- Compare and order unit fractions, and fractions with the same denominators
- Solve problems that involve the above

Lesson objectives

- Compare and order fractions with the same denominators
- Solve fraction problems and reason mathematically

Previous related lesson

Unit 6, Week 2, Lesson 3

Prerequisites for learning

Pupils need to:

- understand unit and non-unit fractions

Vocabulary

numerator, denominator, compare

Future related lessons

None

Success criteria

Pupils can:

- create a pizza using two toppings
- say the fraction for each topping
- compare their pizzas using fractions



Getting Started

- Choose an activity from Number – Fractions.

Collins
Connect
Year 3, Unit 8,
Week 2

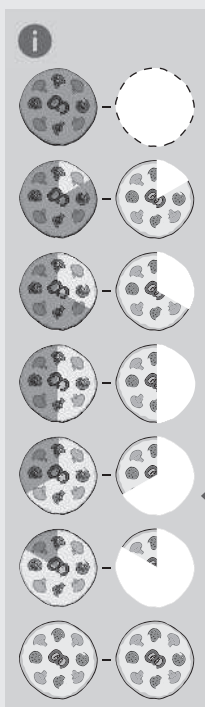
Teach

Resources

mini whiteboard, pen and erase (per child)



- Display: Slide 1.
- Say: **We are going to be making pizza fractions.**
- Say: **Let's choose two toppings for our pizza.** Select two out of the three choices.
- Ask: **What topping will my first slice have?** Draw the ingredients on the slice.
- Say: **Now copy the pizza and choose what toppings you would like the rest of the slices to have. Use the same toppings we have already chosen.**
- Choose three different children's pizzas and ask them to come to the front to show the pizzas to the class.
- Say: **I want to put the pizzas in some kind of order. How could I do that?**
- Share children's ideas. Focus on one type of topping and order the pizzas using fractions, for example, say: **This pizza is first as it has two-sixths mushroom and this one has four-sixths mushroom.**
- Ask children to write the fractions on their whiteboards as you order them for their pizza.
- Say: **Look at your pizza and think how it would fit in with the order. Write the fraction on your board.**
- Ask some children to come and stand in the correct place at the front.
- Ask: **Have we now got all the possible pizzas using those two toppings?** Discuss how you can see if all the possible pizzas have/have not been found.
- Draw any missing pizzas and put them in the appropriate place in the order.
- There are seven possible pizzas including the pizza that is made up of one of the flavours only. (9)
- Display: Slide 2.
- Say: **Draw these pizzas in order.**
- Say: **Explain to your partner how you ordered the pizzas.**
- Discuss ordering as a class. Establish that the pizza could be ordered using either the mushrooms or the pepperoni.



Individualised Learning

Refer to Activity 1 from the Learning activities on page 320.

Pupil Book 3B – Page 48: Pizza puzzle

Resources 39, 40 and 41: Pizza quarters, Pizza eighths, Pizza tenths

Progress Guide 3 – Extension, Year 3, Unit 8, Week 2, Lesson 1: Pizza problem

Plenary



- Display: Slide 3.
- Say: **I want to put some pepperoni on each of these pizzas. The first pizza needs to be one quarter pepperoni.**
- Ask: **How will I divide up the pizza into quarters?**
- Ask a child to draw a quarter of pepperoni on one of the pizzas. Write $\frac{1}{4}$ next to it.
- Repeat for a sixth, a third and an eighth.
- Ask: **Which pizza has the smallest amount of pepperoni? And the largest?**
- Ask: **How do we order fractions with different denominators?** Ask some pairs to feed back their ideas.



Homework Guide 3

Year 3, Unit 8, Week 2, Lesson 1:
Making pizzas

Resources: coloured pencils
(per child)