

Problem 4: The Pizza Party

Teaching and observation points

- identifying fractions with related denominators
- using equivalent fractions
- counting or adding fractions
- working systematically
- drawing pictures

Resources: There is a short video in which Ann shows three methods of recording. This can be used to show and discuss methods for recording and representing this problem either prior to students beginning work on the problem or at the reflection stage. Resource Sheet 6 includes a statement of the problem that you can share with the class before watching the video.

Star

Sort out

What is the problem about?
How many friends are there? What are their names?
What is the important information in this problem?
How many friends did Lucy invite?
How did Lucy's mum cut the pizzas?
Which pieces of pizza shown in the picture might Lucy have taken?
What is another way of saying $\frac{2}{4}$, $\frac{3}{4}$, $\frac{2}{6}$, $\frac{3}{6}$?
What are you being asked to find out?

Think about

How could you get started on this problem?
How might sorting the fractions/drawing pizzas/using open number lines or chunking help?
How will you know if you have used all the fraction clues?

Action

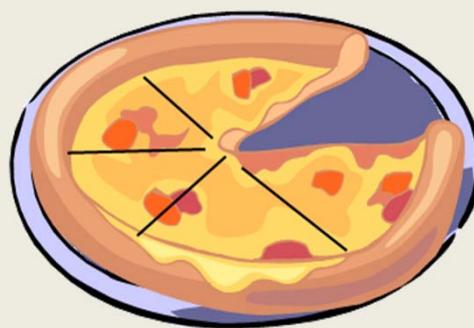
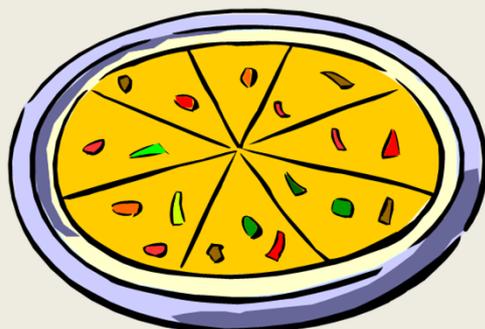
Reflect on

Which strategy is easiest for you? Why is that?
Which strategy was most efficient do you think? Why?
Why was it a good idea to put all of the eights and quarters together?
How did adding all of the sixths together prove helpful?
Which strategy makes it easiest to check that all of the clues have been correctly used?

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Last Saturday, Lucy had a pizza party and invited six friends. Her Mum ordered four fancy pizzas and cut two into eighths and two into sixths.



But Kym was late and there was less than half a pizza left for her. Lucy was upset because she had allowed half a pizza for each friend. Someone had been greedy!

Lucy ate a quarter of one pizza and then a sixth of another.

Jamie ate half of one pizza and then a sixth of another.

Tomic ate an eighth of one pizza, a quarter of another and half of another.

Erin ate an eighth of one pizza, a sixth of another and a quarter of another.

Cliff ate a half of one pizza and then a sixth of another.

Grant ate a third of one pizza and then a quarter of another.



What fraction of a pizza was left for Kym?

Who ate the most pizza?