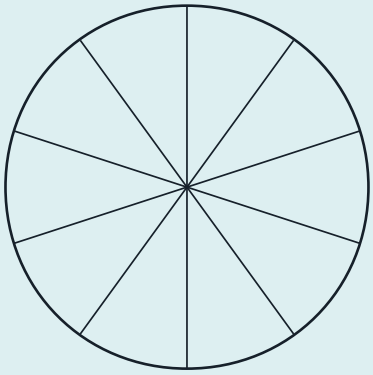
Lesson 96 Pie charts and proportional representation

BUILDING THE LUNCH SURVEY PIE CHART

1. Start with the sandwich slice of 8 out of 20 pupils.
2. Divide 8 by 20 to get the fraction 8/20.
3. Multiply by 100 to turn the fraction into a percentage: 8/20 x 100 = 40%.
4. Draw a slice that is 40% of the full circle for sandwiches.

WARM-UP

Ten pupils chose their favourite fruit: 4 apple, 3 banana, 2 orange and 1 pear. Colour one slice for each pupil, a different colour for each fruit.



1. Colour 4 slices for apple. What fraction of the pie chart is apple?
2. Colour 3 slices for banana and 2 for orange. What fraction of the pie chart are banana and orange together?
3. Colour the last slice for pear. What percentage of the pie chart is pear?

PRACTICE

1. In a class of **25** pupils, **15** chose sandwiches for lunch. What fraction of the pie chart is this slice?
2. In a class of **25** pupils, **9** chose wraps for lunch. What fraction of the pie chart is this slice?
3. In a class of **20** pupils, **2** chose soup for lunch. What fraction of the pie chart is this slice?

ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

a. The slices in a pie chart add up to the whole circle. ☐

b. A slice for 8 out of 20 is exactly half the pie. ☐

c. A slice for 5 out of 20 is 25% of the pie. ☐

d. A pie chart slice is bigger than the whole circle. ☐

DATA & CHANCE