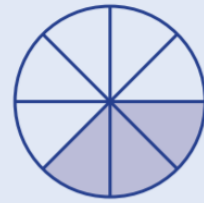


Example 6 Understanding the numerator and the denominator

- a Into how many pieces has the whole pizza been divided?
- b How many pieces have been selected (i.e. shaded)?
- c In simplest form, when representing the shaded fraction of the pizza:
 - i what must the denominator equal?
 - ii what must the numerator equal?
 - iii write the amount of pizza selected (shaded) as a fraction.



SOLUTION

- a 8
- b 3
- c i 8
- ii 3
- iii $\frac{3}{8}$

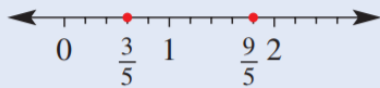
EXPLANATION

Pizza cut into 8 equal pieces.
3 of the 8 pieces are shaded in blue.
Denominator shows the number of parts the whole has been divided into.
Numerator tells how many of the divided parts you have selected.
Shaded fraction is the numerator over the denominator; i.e. 3 out of 8 divided pieces.

Example 7 Representing fractions on a number line

Represent the fractions $\frac{3}{5}$ and $\frac{9}{5}$ on a number line.

SOLUTION



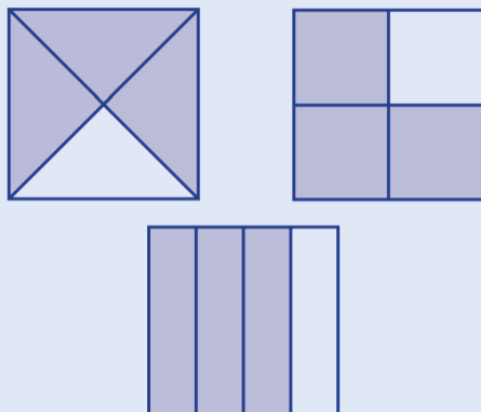
EXPLANATION

Draw a number line starting at 0 and mark on it the whole numbers 0, 1 and 2.
Divide each whole unit into five segments of equal length. Each of these segments has a length of one-fifth.

Example 8 Shading areas

Represent the fraction $\frac{3}{4}$ in three different ways, using a square divided into four equal regions.

SOLUTION



EXPLANATION

Ensure division of square creates four equal areas.
Shade in three of the four regions.