- 1 a State the denominator of this proper fraction: $\frac{2}{9}$.
 - **b** State the numerator of this improper fraction: $\frac{7}{5}$.
- **2** Group the following list of fractions into proper fractions, improper fractions and whole numbers.
 - **A** $\frac{7}{6}$

 $\mathbf{B} \quad \frac{2}{7}$

 $c \frac{50}{7}$

D $\frac{3}{3}$

 $E = \frac{3}{4}$

 $F = \frac{5}{11}$

G $\frac{1}{99}$

 $\frac{1}{4}$

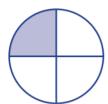
 $1 \frac{11}{8}$

 $\frac{10}{10}$

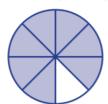
 $K = \frac{5}{1}$

- $\frac{121}{5}$
- 3 Answer the following questions for each of the pizzas (A to D) drawn below.
 - **a** Into how many pieces has the whole pizza been divided?
 - **b** How many pieces have been selected (shaded)?
 - **c** In 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.

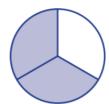
Α



В



C



n



- 4 Find the whole numbers among the following list of fractions. Hint: There are five whole numbers to find.
 - A $\frac{15}{4}$

B $\frac{14}{8}$

 $\frac{12}{5}$

D $\frac{30}{15}$

 $\frac{17}{3}$

 $F = \frac{30}{12}$

 $\frac{12}{12}$

H $\frac{33}{10}$

 $1 \frac{53}{3}$

J $\frac{9}{3}$

 $K \frac{50}{20}$

 $L = \frac{28}{7}$

 $M = \frac{96}{8}$

 $N = \frac{24}{5}$

 $\frac{62}{4}$

 $P = \frac{1031}{2}$

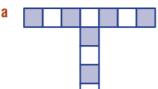
- **5** Represent the following fractions on a number line.
 - a $\frac{3}{7}$ and $\frac{6}{7}$

b $\frac{2}{3}$ and $\frac{5}{3}$

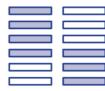
- 6 Represent each of these fractions in three different ways, using a rectangle divided into equal regions.

10 For each of the following, state what fraction of the diagram is shaded.



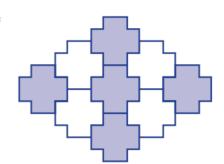




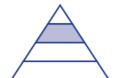








13 Which diagram has one-quarter shaded?





C





- **16 a** For each of the diagrams shown, work out what fraction of the rectangle is coloured blue. Explain how you arrived at each of your answers.
 - **b** Redraw the shapes in order from the most blue to least blue.

