5 FRACTIONS (A)

White Rose Maths
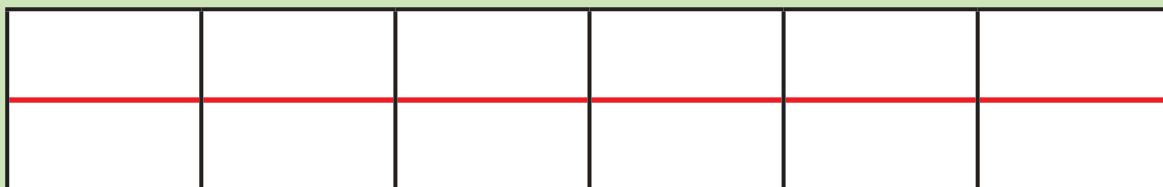
1 Use the diagram to help you complete the equivalent fraction.

$$\frac{1}{2} = \frac{\square}{8}$$

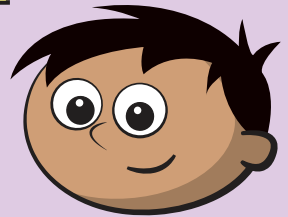**2** Use the diagram to show that $\frac{5}{6}$ is equal to $\frac{10}{12}$
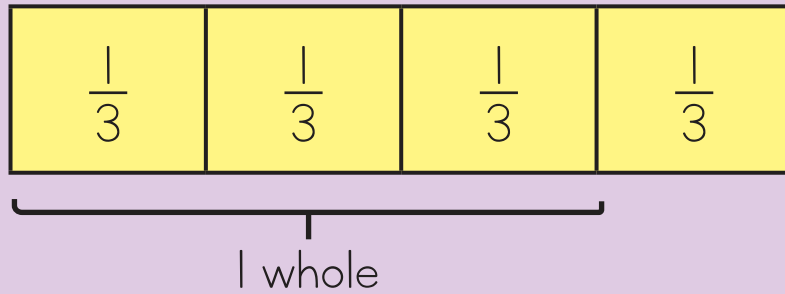

3 Complete the equivalent fractions.

$$\frac{18}{42} = \frac{\square}{7} \qquad \frac{\square}{30} = \frac{2}{5}$$
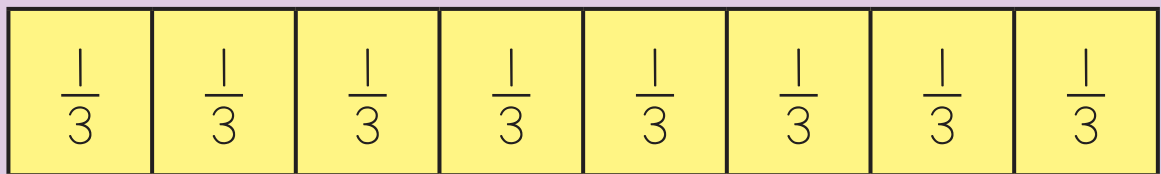
$$\frac{1}{6} = \frac{4}{\square} = \frac{\square}{36}$$

4 Amir uses a bar model to convert $\frac{4}{3}$ to a mixed number.

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

1 whole

$\frac{4}{3}$ is equal to $1\frac{1}{3}$

Convert $\frac{8}{3}$ to a mixed number.

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

5 Convert $1\frac{3}{5}$ to an improper fraction.

Use the diagram to help you.
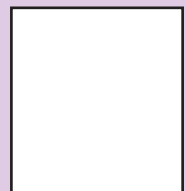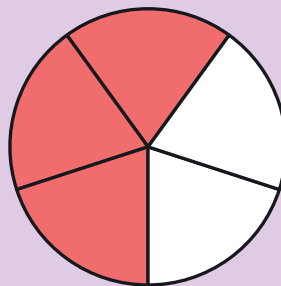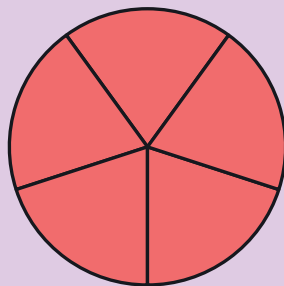
6 Fill in the missing numbers.

$$11 \frac{3}{10} = \frac{\boxed{}}{10} \qquad \boxed{} \frac{1}{4} = \frac{25}{4}$$

7 Convert between the mixed numbers and improper fractions.

$$5 \frac{3}{4} = \boxed{} \qquad \frac{15}{8} = \boxed{}$$

8 Alex is using a fraction wall to compare fractions.

$\dfrac{1}{2}$				$\dfrac{1}{2}$		

$\dfrac{1}{3}$	$\dfrac{1}{3}$	$\dfrac{1}{3}$

$\dfrac{1}{6}$	$\dfrac{1}{6}$	$\dfrac{1}{6}$	$\dfrac{1}{6}$	$\dfrac{1}{6}$	$\dfrac{1}{6}$

$\dfrac{1}{9}$	$\dfrac{1}{9}$	$\dfrac{1}{9}$	$\dfrac{1}{9}$	$\dfrac{1}{9}$	$\dfrac{1}{9}$	$\dfrac{1}{9}$	$\dfrac{1}{9}$	$\dfrac{1}{9}$
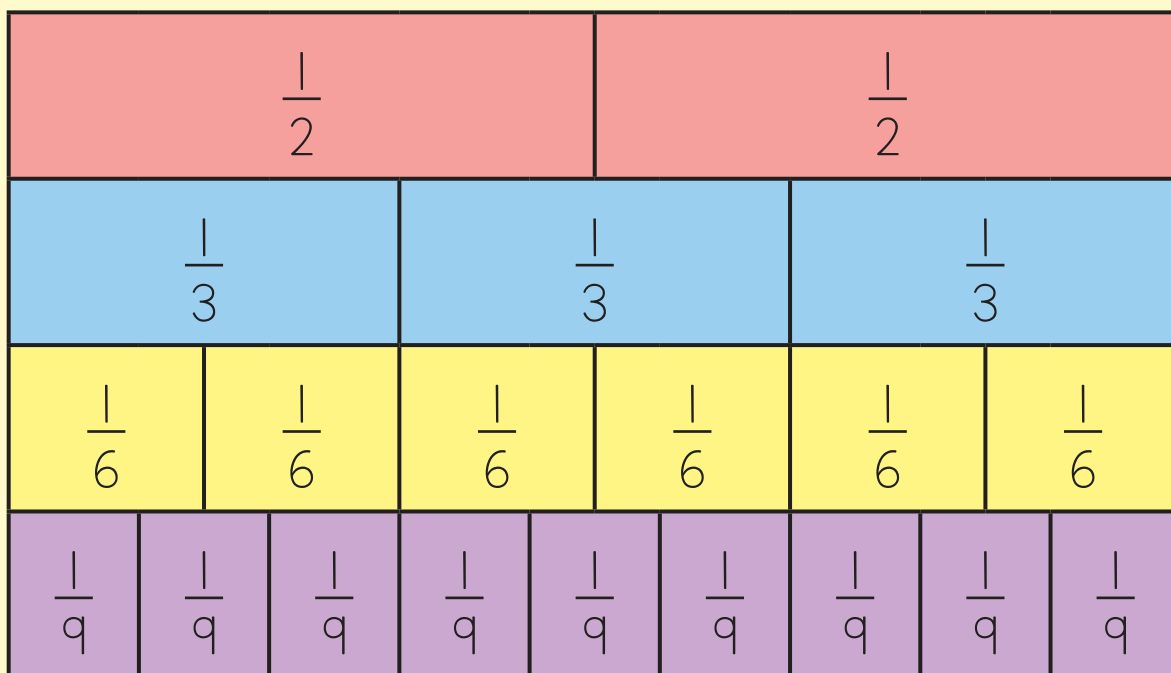
Write <, > or = to complete the statements.

$$\dfrac{1}{2} \bigcirc \dfrac{1}{6}$$

$$\dfrac{2}{3} \bigcirc \dfrac{5}{9}$$

$$\dfrac{8}{9} \bigcirc 1$$

9 Huan and Dani have the same amount of juice in a bottle.

Huan drinks $\frac{2}{3}$ of his juice.

Dani drinks $\frac{5}{9}$ of her juice.

Who has the most juice left?

10 Complete the division.

$13 \div 3 = \boxed{} \dfrac{\boxed{}}{3}$

11 Put the mixed numbers in order, starting with the smallest.

$2\frac{4}{10}$ $1\frac{3}{5}$ $2\frac{1}{5}$
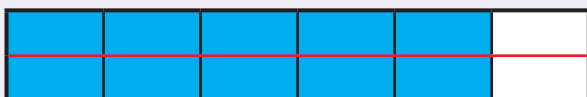
Explain your answer.

Answers

1 $\frac{1}{2} = \frac{4}{8}$

2

3 $\frac{18}{42} = \frac{3}{7}$ $\frac{12}{30} = \frac{2}{5}$ $\frac{1}{6} = \frac{4}{24} = \frac{6}{36}$

4 $2\frac{2}{3}$

5 $\frac{8}{5}$

6 $11\frac{3}{10} = \frac{113}{10}$ $6\frac{1}{4} = \frac{25}{4}$

7 $\frac{23}{4}$ $1\frac{7}{8}$

8 $\frac{1}{2}$ $<$ $\frac{1}{6}$ $\frac{2}{3}$ $>$ $\frac{5}{9}$ $\frac{8}{9}$ $<$ 1

9 Dani

10 $13 \div 3 = 4\frac{1}{3}$

11 $1\frac{3}{5}$ $2\frac{1}{5}$ $2\frac{4}{10}$

White Rose Maths