

Understand fractions as division

1 Use a calculator to help you match up the fraction with its division.

Then match up the division to the decimal answer.

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

$$23 \div 100$$

$$0.8$$

$$\frac{4}{5}$$

$$4 \div 5$$

$$0.23$$

$$\frac{3}{10}$$

$$3 \div 4$$

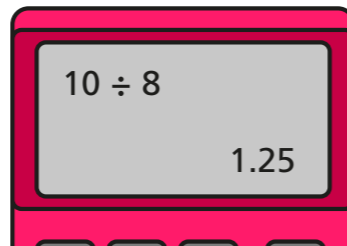
$$0.3$$

$$\frac{23}{100}$$

$$3 \div 10$$

$$0.75$$

2 Huan is writing $\frac{8}{10}$ as a division on his calculator.



a) What mistake has Huan made?

b) What should he have typed on the calculator? _____

3 Write the fractions as divisions.

Use your calculator to work out the answer as a decimal.

a) $\frac{3}{5} = \square \div \square = \square$

b) $\frac{7}{8} = \square \div \square = \square$

c) $\frac{7}{20} = \square \div \square = \square$

d) $\frac{37}{50} = \square \div \square = \square$

e) $\frac{7}{4} = \square \div \square = \square$

f) $\frac{15}{6} = \square \div \square = \square$

4 Write the divisions as fractions.

a) $6 \div 9 = \square$

d) $7 \div 19 = \square$

b) $2 \div 5 = \square$

e) $10 \div 4 = \square$

c) $7 \div 12 = \square$

f) $27 \div 5 = \square$

5 Circle the fractions that are equivalent to $\frac{45}{60}$

You should use division on a calculator to help you.

$\frac{8}{2}$ $\frac{11}{44}$ $\frac{33}{44}$ $\frac{12}{16}$ $\frac{360}{480}$

Discuss with a partner the method you used.

6 Show that the statements are true.

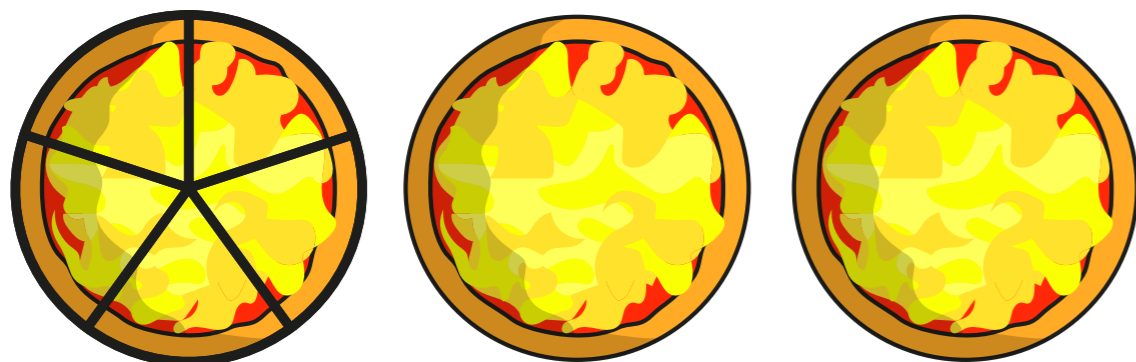
a) $\frac{30}{50}$ and $\frac{17}{40}$ are not equal.

b) $\frac{170}{200}$ is less than $\frac{9}{10}$

7 Circle the smaller fraction in each pair.

a) $\frac{3}{4}$ $\frac{4}{5}$ b) $\frac{9}{10}$ $\frac{23}{25}$ c) $\frac{19}{30}$ $\frac{15}{20}$ d) $\frac{11}{19}$ $\frac{53}{99}$

8 These 3 pizzas are divided equally between 5 people.



What fraction of one pizza does each person receive?

Each person receives of a pizza.

9 a) £2 is shared equally between 8 people.

What fraction of £1 does each person get?

Each person gets of £1

b) Nijah swims the same distance each day for 7 days.

She swims 4 km in total across the week.

What fraction of a km does Nijah swim each day?

Each day Nijah swims km.

10 Put the fractions in descending order.

$\frac{31}{50}$ $\frac{45}{75}$ $\frac{18}{24}$ $\frac{130}{2000}$

Show your method.

