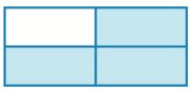
A little practice from Last years learning

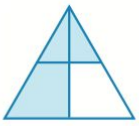
PP Worksheet R3.1

1 Which of these have three-quarters of the whole shape shaded in?

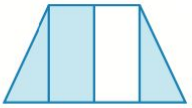
(a) 

(b) 

(c) 

(d) 

(e) 

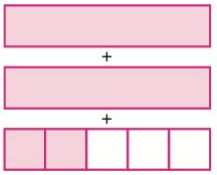
(f) 

PP Worksheet R3.2

2 Write down a fraction to represent each of the following diagrams or descriptions.

(a) 

(b) 

(c) 

(d) One person's share of a birthday cake divided equally between 10 people.

(e) Joseph eats five out of eight equal-sized slices of a pizza.

(f) two-thirds **(g)** twelve-fifths **(h)** seven-sixteenths

PP Worksheet R3.3

3 (a) Write these in order from largest to smallest: $\frac{3}{4}$, 1, 0, 2, $1\frac{1}{4}$

(b) Write these in order from smallest to largest: $\frac{3}{8}$, $\frac{1}{8}$, 0, $\frac{7}{8}$, $\frac{11}{8}$, 1, $\frac{9}{8}$

PP Worksheet R3.4

4 Calculate:

(a) $\frac{4}{7}+\frac{1}{7}$ **(b)** $\frac{8}{11}-\frac{2}{11}$ **(c)** $\frac{2}{3}+\frac{2}{3}$

PP Worksheet R3.5

5 (a) Write the first five multiples of 8. **(b)** Write the first five multiples of 12.

(c) Write the lowest common multiple (LCM) of 8 and 12.

(d) Write all the factors of 24. **(e)** Write all the factors of 36.

(f) Write the highest common factor (HCF) of 24 and 36.

WALT understanding fractions and ordering them

Success Criteria I can understand fractions and order them with the same denominator

1 (a) How many smileys are there in $\frac{3}{4}$ of this collection?

(b) How many jelly beans are there in $\frac{2}{3}$ of this collection?

WE1

2 **(a)** Copy this number line and show the positions of these fractions: $\frac{3}{4}$, $\frac{8}{4}$, $\frac{5}{4}$ and $-\frac{1}{4}$.

WE2

(b) Copy this number line and show the positions of these fractions: $\frac{5}{6}$, $\frac{8}{6}$, $\frac{1}{6}$ and $-\frac{3}{6}$.

3 **(a)** Write the whole number 5 as an improper fraction with a denominator of:

WE3

(i) 2 **(ii)** 7 **(iii)** 11 **(iv)** 5 **(v)** 1

(b) Write the whole number 13 as an improper fraction with a denominator of:

(i) 2 **(ii)** 5 **(iii)** 8 **(iv)** 13 **(v)** 1

4 **(a)** For each of the following, write the amount each student receives as a fraction (or as a mixed number if appropriate).

WE4

(i) 1 pizza is shared equally between 2 students.

(ii) 2 apples are shared equally between 3 students.

(iii) 6 packets of lollies are shared equally between 5 students.

(iv) 10 packets of biscuits are shared equally between 7 students.

(b) In which of the above situations does a student receive more than one whole?

Understanding

5 Here are 16 lollies. How many will you eat if you eat these fractions of the total?

(a) $\frac{1}{4}$

(b) $\frac{3}{4}$

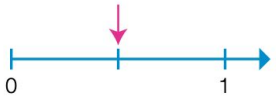
(c) $\frac{1}{8}$

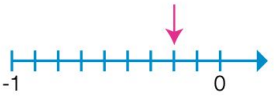
(d) $\frac{5}{8}$

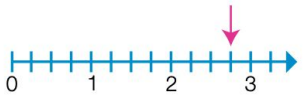
6 **(a)** What fraction of the bananas in this bunch are rotten?

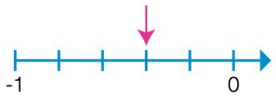
(b) What fraction of the flowers in this vase are red?

7 Write the value of the fraction indicated by the arrow on each of the number lines below.

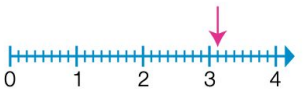
(a)


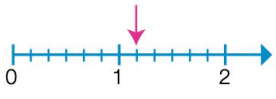
(b)


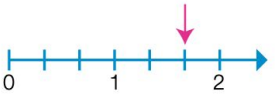
(c)


(d)


(e)


(f)


(g)


(h)


(i)


8 Write a fraction or a mixed number to show each of these:

(a) a numerator of 8 and a denominator of 17

(b) denominator of 4 and a numerator of 15

(c) nine chocolate biscuits in a packet of 20

(d) two wholes and two thirds

(e) 4 complete pairs of socks and one odd sock

(f) 3 whole 24-piece blocks of chocolate, with 7 extra pieces.

9 Write a fraction to show each of these:

(a) the weekend days as a fraction of a whole week

(b) 1 hour out of a whole day

(c) 1 second out of a whole minute

(d) 17 minutes out of a whole hour

(e) 157 mL of cola drunk from a 375 mL can

(f) 421L of water in a 500 L rainwater tank.

10 What fraction of this collection of shapes are:

(a) stars

(b) stars or hearts

(c) not hearts?

11 **(a)** Draw a diagram to show that if 5 pizzas are shared equally between 6 students, then each student receives $\frac{5}{6}$ of a pizza.

(b) Draw a diagram to show that if 5 blocks of chocolate are shared equally between 4 students, then each student receives 1 full block and $\frac{1}{4}$ of a second block.

CHECK YOUR ANSWERS