
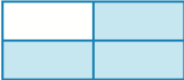



A little practice from Last years learning





Worksheet R3.1

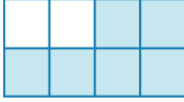
1 Which of these have three-quarters of the whole shape shaded in?


(a) 


(b) 

(c) 

(d) 


(e) 


(f) 




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



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, $\frac{9}{8}$




Worksheet R3.4

4 Calculate:

(a) $\frac{4}{7} + \frac{1}{7}$

(b) $\frac{8}{11} - \frac{2}{11}$

(c) $\frac{2}{3} + \frac{2}{3}$



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

The ancient Chinese called their fraction denominators 'mothers' and the numerators 'sons'!



- 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?

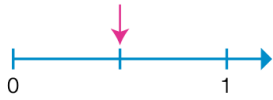


- (b) What fraction of the flowers in this vase are red?

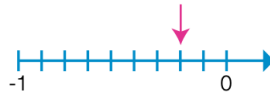


7 Write the value of the fraction indicated by the arrow on each of the number lines below.

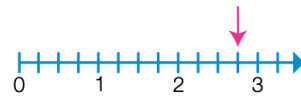
(a)



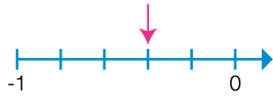
(b)



(c)



(d)



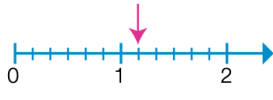
(e)



(f)



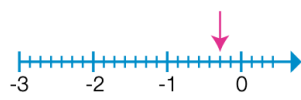
(g)



(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

