

Year 4: Fractions of shapes and sets: answers

Year 4 - Fractions - Lesson 5.1

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch05-fractions/fractions-of-shapes-and-sets/

Exercise 5A Fractions of shapes and sets Non-calculator

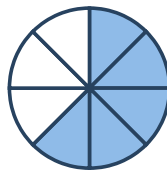
1 What fraction of each shape is shaded?

(a)



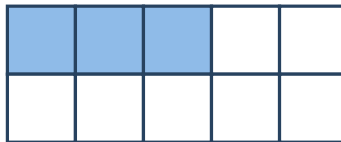
Answer: $\frac{2}{5}$

(b)



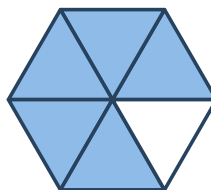
Answer: $\frac{5}{8}$

(c)



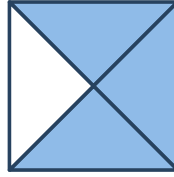
Answer: $\frac{3}{10}$

(d)



Answer: $\frac{5}{6}$

(e)



Answer: $\frac{3}{4}$

(f)



Answer: $\frac{4}{9}$

2 Write each of these as a fraction with numbers.

(a) three quarters =

Answer: $\frac{3}{4}$

(b) two fifths =

Answer: $\frac{2}{5}$

(c) five eighths =

Answer: $\frac{5}{8}$

(d) seven tenths =

Answer: $\frac{7}{10}$

(e) one sixth =

Answer: $\frac{1}{6}$

(f) two thirds =

Answer: $\frac{2}{3}$

3 Write each fraction in words.

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

Answer: one quarter

(b) $\frac{2}{3}$ =

Answer: two thirds

(c) $\frac{5}{6} =$

Answer: five sixths

(d) $\frac{3}{8} =$

Answer: three eighths

(e) $\frac{9}{10} =$

Answer: nine tenths

(f) $\frac{4}{5} =$

Answer: four fifths

4 How many parts must be shaded to show each fraction? The shapes are not shaded yet.

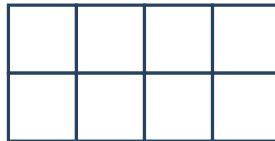
(a)



Shade $\frac{3}{5}$. How many parts?

Answer: 3

(b)



Shade $\frac{5}{8}$. How many parts?

Answer: 5

(c)



Shade $\frac{7}{10}$. How many parts?

Answer: 7

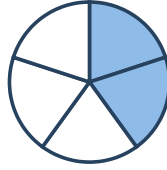
5 What fraction of each shape is **not** shaded?

(a)



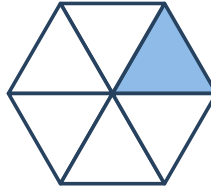
Answer: $\frac{5}{8}$

(b)



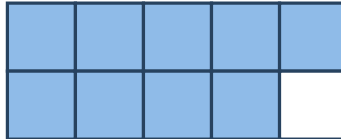
Answer: $\frac{3}{5}$

(c)



Answer: $\frac{5}{6}$

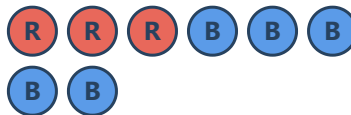
(d)



Answer: $\frac{9}{10}$

6 What fraction of the counters are the colour in the question?

(a)



What fraction of the counters are red?

Answer: $\frac{3}{8}$

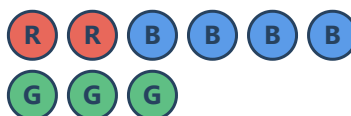
(b)



What fraction of the counters are yellow?

Answer: $\frac{3}{10}$

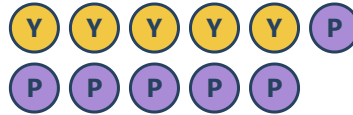
(c)



What fraction of the counters are blue?

Answer: $\frac{3}{9}$

(d)



What fraction of the counters are purple?

Answer: $\frac{6}{11}$

7 The counters are in equal groups. Some groups are coloured red. What fraction of the groups are red?

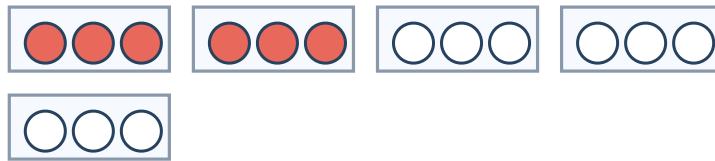
(a)



Fraction of groups that are red =

Answer: $\frac{3}{4}$

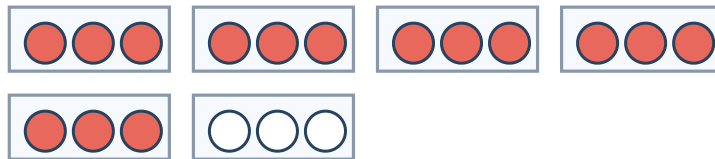
(b)



Fraction of groups that are red =

Answer: $\frac{2}{5}$

(c)



Fraction of groups that are red =

Answer: $\frac{5}{6}$

8 A pizza is cut into 8 equal slices. Noah eats 3 slices. Mei eats 1 slice.



(a) What fraction of the pizza does Noah eat?

Answer: $\frac{3}{8}$

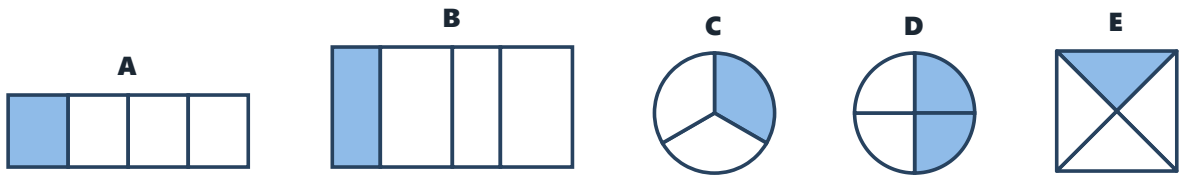
(b) What fraction of the pizza does Mei eat?

Answer: $\frac{1}{8}$

(c) What fraction of the pizza is **not** eaten by Noah?

Answer: $\frac{5}{8}$

- 9 Which two pictures show one quarter shaded? Tick **two** boxes.



Answer: A and E

- 10 Which fraction is the odd one out? $\frac{1}{2}$ $\frac{1}{3}$ $\frac{3}{4}$ $\frac{1}{5}$. Explain.

Answer: $\frac{3}{4}$

- 11 Always, sometimes or never? When a shape is cut into 4 parts, each part is one quarter.

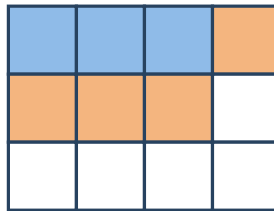
Answer: Sometimes

- 12 Leo says, " $\frac{1}{3}$ of the rectangle is shaded, because there are 3 parts and 1 is shaded." Is Leo right? Explain.



Answer: No, the parts are not equal

- 13 A rectangle is cut into 12 equal squares. 3 squares are blue and 4 squares are yellow. The rest are white. What fraction of the squares are white?



Answer: $\frac{5}{12}$