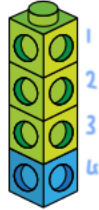# Green

2 Here is a tower of cubes.

a) What fraction of the tower is green? $\frac{3}{4}$
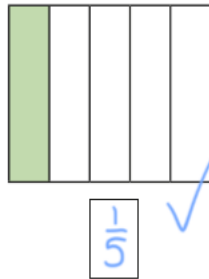
b) What fraction of the tower is blue? $\frac{1}{4}$

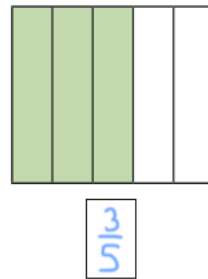c) Complete the number sentence. $\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$

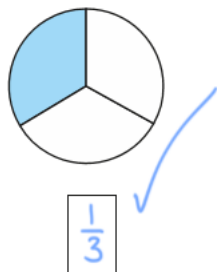**3** What fraction of each shape is shaded?
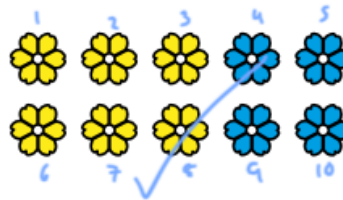
a)

$\frac{1}{5}$ ✓

$\frac{3}{5}$

b)

$\frac{1}{3}$ ✓
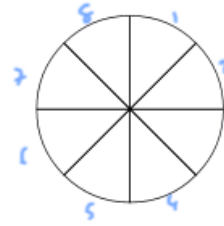
$\frac{2}{3}$

1 Tick the pictures that show tenths.

A number line 1 to 10 with a tick mark.

A grid numbered 1 to 10 with a tick mark.

A grid numbered 7 to 12.

A circle divided into 8 sections numbered 1 to 8.

Flowers numbered 1 to 10 with a tick mark.

A bead string numbered 1 to 10 with a tick mark.
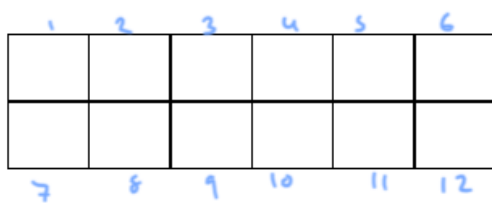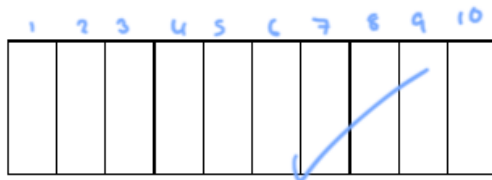
3

To find a half I need to divide by 2

Do you agree with Dexter? __YeD__

Show your working out to support your answer.

For example 10 divided by 2 = 5 or 20 divided by 2 = 10

2 Draw counters in the bar models to help you complete each number sentence. The first one has been done for you.

a) $\frac{1}{2}$ of 8 = 4

b) $\frac{1}{2}$ of 16 = 8

c) $\frac{1}{4}$ of 8 = 2

d) $\frac{1}{4}$ of 16 = 4

3 What fraction of each shape is shaded?

Which fraction represents a whole?

Fill in the missing fractions.

a)

$\frac{3}{3}$ = one whole

$\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{3}$

b)

$\frac{2}{2}$ = one whole

$\frac{1}{2}$ $\frac{2}{2}$

9 Rosie, Amir and Alex each find a fraction of 24 using counters.

I have $\frac{1}{6}$ of 24

I have $\frac{1}{3}$ of 24

4

8

Rosie

Amir

I have 6 counters.

Alex   6

a) Order the children from least counters to most counters.

_____Rosie_____   _____Alex_____   _____Amir_____

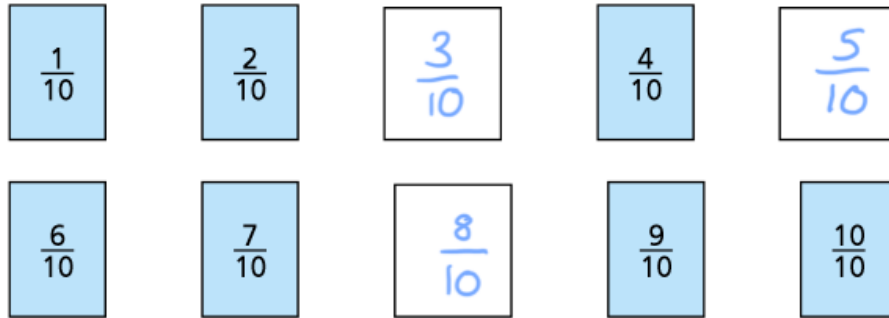least counters   most counters

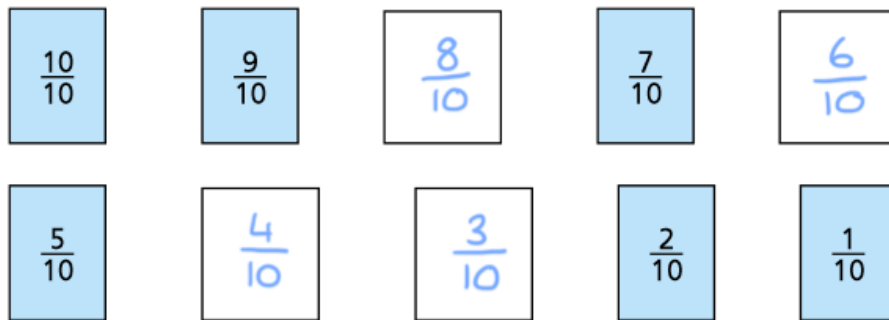**4** a) Colour $\frac{1}{5}$ of each shape.

b) Colour $\frac{3}{5}$ of each shape.

What is the same and what is different about your answers?

3 Write the missing fractions in each sequence.

a)

$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$
$\frac{6}{10}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	$\frac{10}{10}$

b)

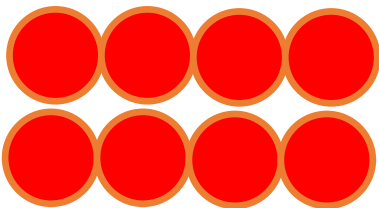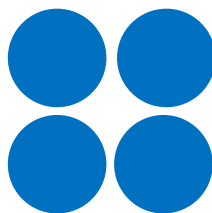| $\frac{10}{10}$	$\frac{9}{10}$	$\frac{8}{10}$	$\frac{7}{10}$	$\frac{6}{10}$
$\frac{5}{10}$	$\frac{4}{10}$	$\frac{3}{10}$	$\frac{2}{10}$	$\frac{1}{10}$

There are 24 sweets. $\frac{1}{3}$ are red, $\frac{1}{6}$ are blue and $\frac{1}{2}$ are green. Draw the sweets that would be in the tube.

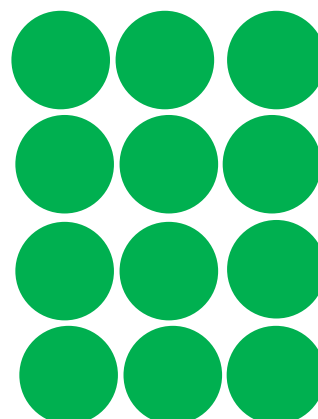1/3 of 24—24 divided by 3 = 8   1/6 of 24—24 divided by 6 = 4   1/2 of 24—24 divided by 2 = 12

Red

4 Draw an arrow to estimate where each fraction belongs on the number line.

a) $\frac{3}{4}$

$\frac{3}{4}$

|———|———|———|———↓———|
0   1

b) 1 and $\frac{2}{3}$

1 and $\frac{2}{3}$

|———|———|———|———|———↓———|
0   1   2

8 Eva has a bag of 20 sweets.

She eats $\frac{1}{4}$ of the sweets.

She gives $\frac{1}{5}$ of the sweets that are left to Dora and <u>2 sweets</u> to her <u>mum</u>.

How many sweets does Eva have left? $18 - 2 = 10$

20

| 5 | 5 | 5 | 5 |
eats   left

$20 \div 4 = 5$
$3 \times 5 = 15$

| 3 | 3 | 3 | 3 | 3 |
Dora   left

$15 \div 5 = 3$
$4 \times 3 = 12$

$\boxed{10}$

8 Mo also has a bag of sweets.

$\frac{4}{10}$ of his sweets are red.

The rest are green or yellow.

What fraction of Mo's sweets could be green? $\boxed{\frac{1}{10}}$

What fraction could be yellow? $\boxed{\frac{5}{10}}$

How many possible answers can you find?

Green	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$
Yellow	$\frac{4}{10}$	$\frac{3}{10}$	$\frac{2}{10}$	$\frac{1}{10}$

Red

7

To find $\frac{3}{4}$ of 12, you divide by 4 and then multiply the answer by 3

Tommy

To find $\frac{3}{4}$ of 12, you divide by 3 and then multiply the answer by 4

Dexter

Who is correct? _Tommy_

How do you know? Show your working.

Divide 12 by the denominator—12 divided by 4 = 3

Multiply 3 by the numerator—3 x 3 = 9

5 Write each fraction under the correct heading.

$\frac{2}{3}$ $\frac{4}{4}$ $\frac{5}{3}$ $\frac{1}{8}$ $\frac{3}{3}$

$\frac{3}{4}$ $\frac{7}{4}$ $\frac{8}{8}$ $\frac{7}{8}$

Less than one whole	Equal to one whole	More than one whole
$\frac{2}{3}$ $\frac{3}{4}$ $\frac{1}{8}$ $\frac{7}{8}$	$\frac{4}{4}$ $\frac{8}{8}$ $\frac{3}{3}$	$\frac{7}{4}$ $\frac{5}{3}$