

Home Learning Pack

Year 6

Friday 12.11.21

Maths – Fractions

Add and subtract fractions (2)

Here is a link with videos to support you with this topic.

[Autumn Week 10 - Number: Fractions | White Rose Maths](#)

Start where you feel comfortable in the math's activities and choose your level of challenge.

1) What is the lowest common multiple of 6 and 8?

$$2) \frac{3}{4} + \frac{1}{12} =$$

$$3) \frac{3}{10} - \frac{1}{5} =$$

4) Write $\frac{43}{13}$ as a mixed number.

1) What is the lowest common multiple of 6 and 8?

24

$$2) \frac{3}{4} + \frac{1}{12} = \frac{9}{12} + \frac{1}{12} = \frac{10}{12} = \frac{5}{6}$$

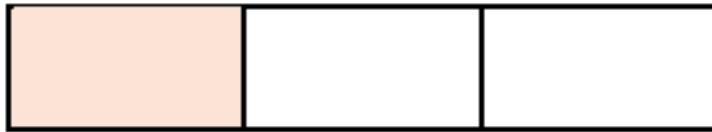
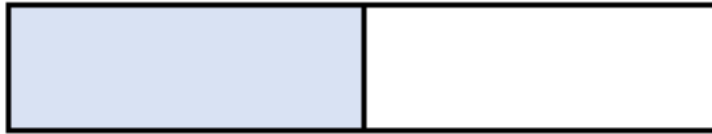
$$3) \frac{3}{10} - \frac{1}{5} = \frac{3}{10} - \frac{2}{10} = \frac{1}{10}$$

4) Write $\frac{43}{13}$ as a mixed number. $3\frac{4}{13}$

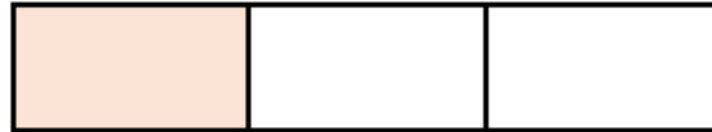
13, 26, 39, 52

1) Use the fraction strips to help you add together

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

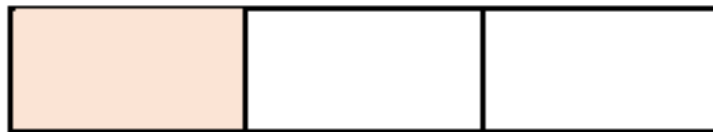
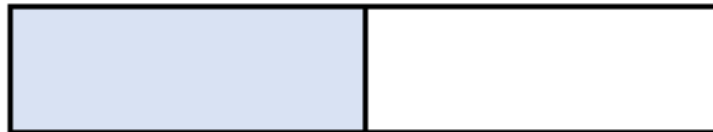


$$\frac{3}{5} + \frac{1}{3} =$$

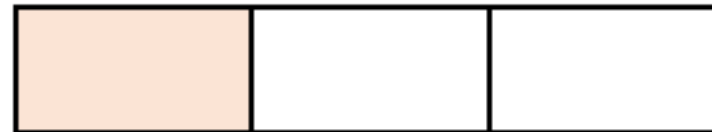


2) Use the fraction strips to help you subtract

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



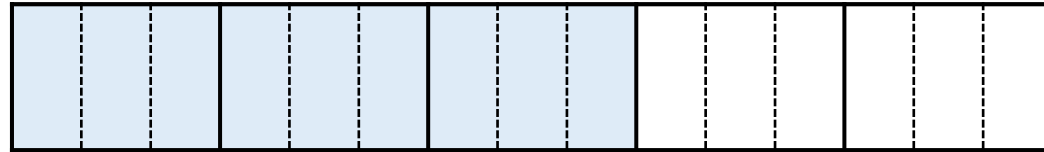
$$\frac{3}{5} - \frac{1}{3} =$$



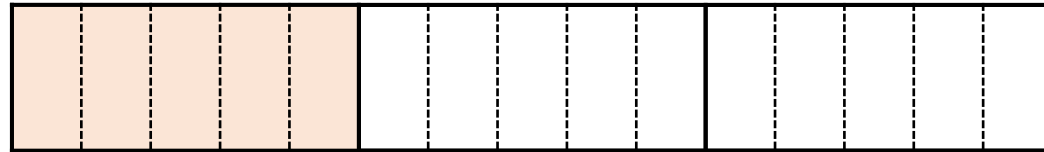
Use fraction strips to help you add together

$$\frac{3}{5} + \frac{1}{3}$$

Divide each
part into 3



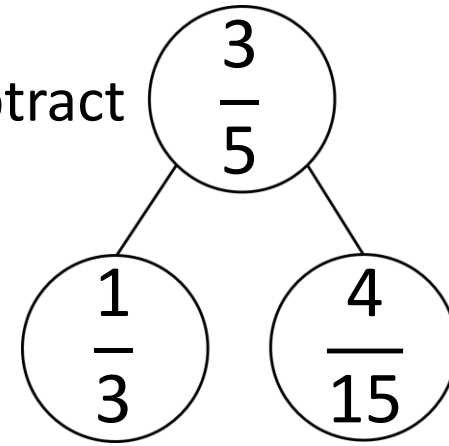
Divide each
part into 5



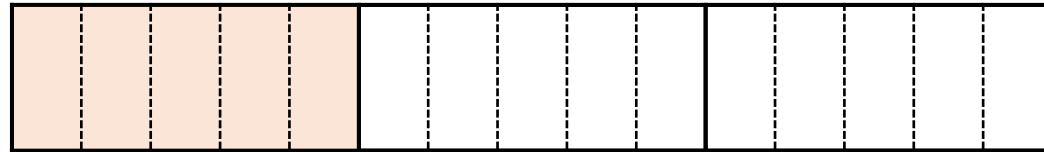
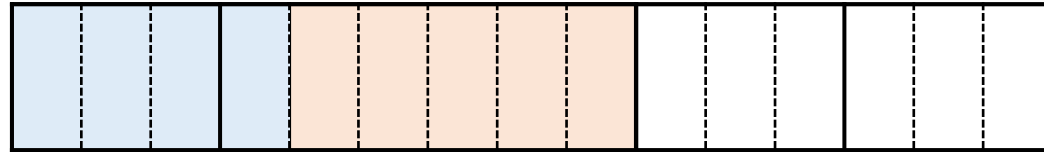
$$\frac{3}{5} + \frac{1}{3} = \frac{9}{15} + \frac{5}{15} = \frac{14}{15}$$

Use fraction strips to help you subtract

$$\frac{3}{5} - \frac{1}{3} = \frac{4}{15}$$



Divide each part into 3



Divide each part into 5

a) Partitioning

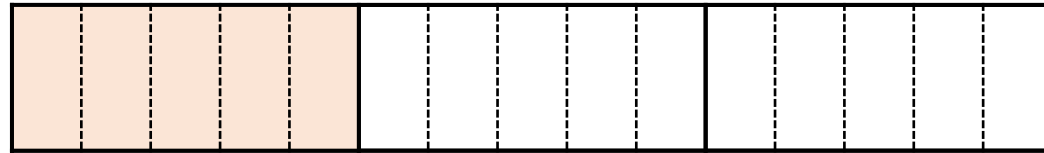
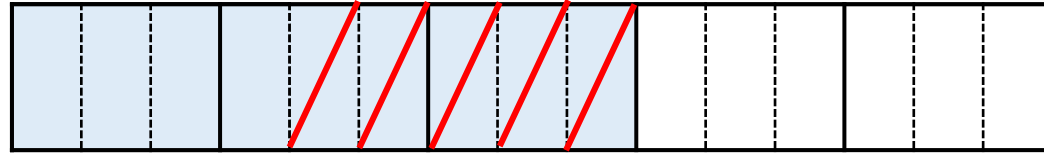
$\frac{3}{5}$ of the buttons in a bag are circular.

$\frac{1}{3}$ of the circular buttons are orange.

The rest are blue. How many are blue?

Use fraction strips to help you subtract

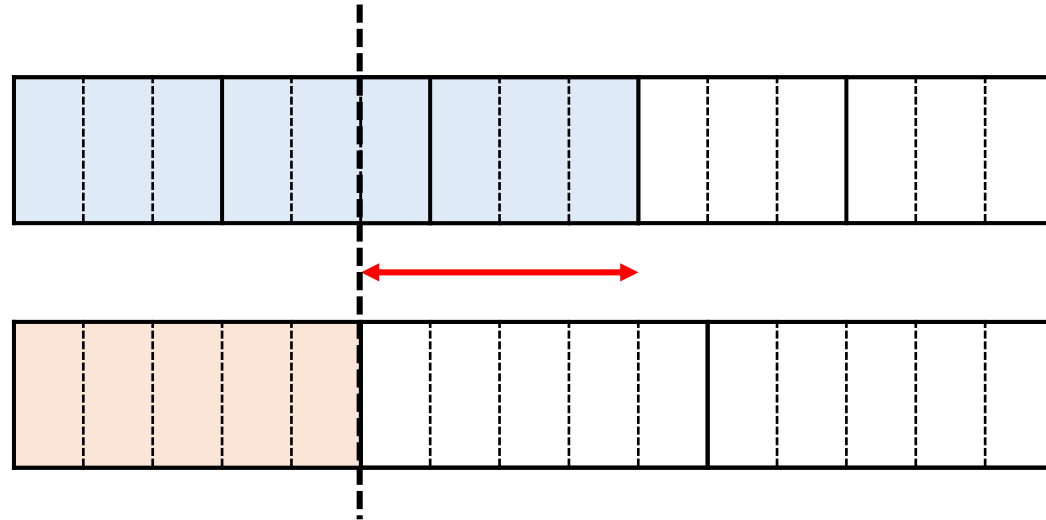
$$\frac{3}{5} - \frac{1}{3} = \frac{4}{15}$$



- b) Reduction $\frac{3}{5}$ of a chocolate bar is in the fridge.
Tommy eats $\frac{1}{3}$ of it.
What fraction is left?

Use fraction strips to help you subtract

$$\frac{3}{5} - \frac{1}{3} = \frac{4}{15} \text{ km}$$



c) Difference

Eva ran $\frac{3}{5}$ km.

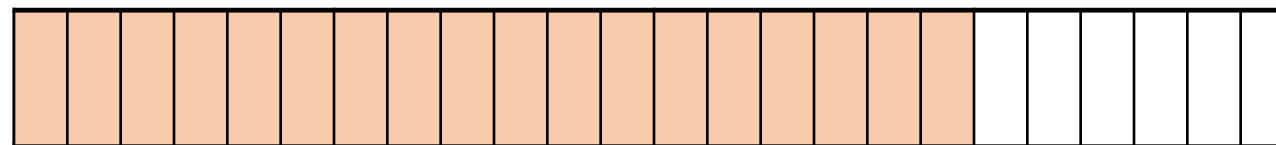
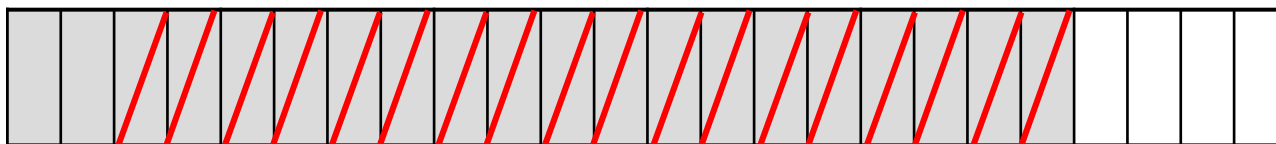
Ron ran $\frac{1}{3}$ km.

How much further did Eva run?

$$\frac{5}{6} - \frac{3}{4} = \frac{2}{24} = \frac{1}{12}$$

Divide each part into 4

$$\frac{20}{24}$$



Divide each part into 6

$$\frac{18}{24}$$

$$\frac{5}{6} - \frac{3}{4} = \frac{20}{24} - \frac{18}{24} = \frac{2}{24}$$

$$\frac{5}{6} - \frac{3}{4} = \frac{1}{12}$$
$$\frac{10}{12} -$$



Multiples of 6: 6, 12, 18, 24, 30

Multiples of 4: 4, 8, 12, 16, 20, 24

Have a think




$$\begin{array}{ccc} & \frac{3}{10} + \frac{3}{4} & \\ \times 2 \swarrow & & \searrow \times 5 \\ & \frac{6}{20} + & = \frac{21}{20} \text{ or } 1\frac{1}{20} \end{array}$$

Multiples of 10: 10, 20, 30, 40

Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40

Have a go at questions
1 - 4 on the worksheet

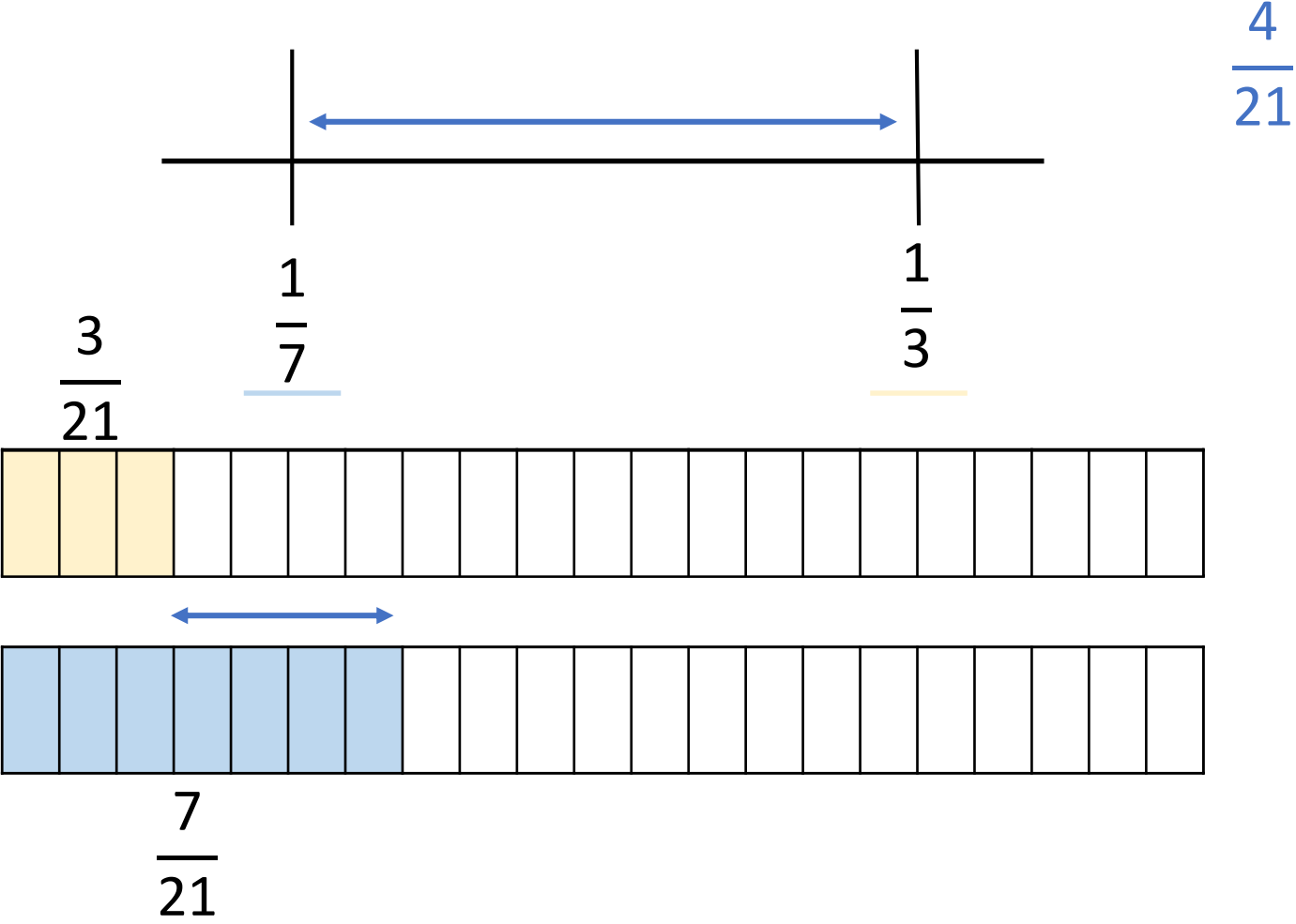
Have a think 

$$\begin{array}{l} \frac{7}{4} + \frac{3}{5} \\ \times 5 \quad \swarrow \\ \frac{35}{20} + \end{array} \quad \begin{array}{l} \searrow \\ \times 4 \\ = \frac{47}{20} \text{ or } 2\frac{7}{20} \end{array}$$

Multiples of 4: 4, 8, 12, 16, 20, 24

Multiples of 5: 5, 10, 15, 20, 25

What is the difference between the two numbers on the number line?



Have a go at the rest of the
questions on the worksheet

Add fractions

1 Complete the calculations.

$$\frac{2}{5} + \frac{1}{5} = \square$$

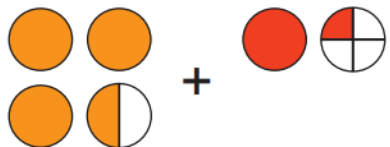
$$1\frac{2}{5} + \frac{1}{5} = \square$$

$$1\frac{2}{5} + 1\frac{1}{5} = \square$$

$$2\frac{2}{5} + 1\frac{1}{5} = \square$$

Talk to your partner about the methods you used.

2 Complete the calculation that is represented.



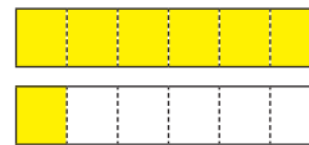
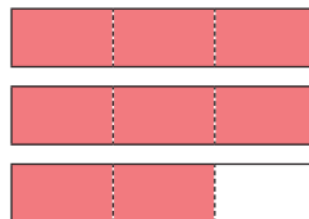
$$\square + \square = \square$$

Show the method that you used.



3 Work out the addition.

$$2\frac{2}{3} + 1\frac{1}{6}$$



Show your method.

4 Amir and Whitney are working out an addition.

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



I will add the wholes and then the parts.

I will convert each number to an improper fraction first and then add them.



Complete Amir's and Whitney's methods.

Amir's method	Whitney's method
$1 + 3 = 4$ wholes $\frac{3}{4} + \frac{2}{5} = \square + \square$	$1\frac{3}{4} = \frac{7}{4}$ and $3\frac{2}{5} = \square$

5 Complete the calculations.

a) $2\frac{3}{5} + 1\frac{3}{10} =$

c) $3\frac{5}{9} + 1\frac{1}{4} =$

b) $4\frac{7}{15} + 2\frac{1}{3} =$

d) $7\frac{5}{8} + 1\frac{2}{3} =$

6 Esther cycles $2\frac{7}{10}$ km and then takes a rest.
Later, Esther cycles $3\frac{1}{4}$ km.
How far does Esther cycle in total?

7 Use the given fact to help you complete the calculations.

$$\frac{2}{3} + \frac{1}{5} = \frac{13}{15}$$

a) $12\frac{2}{3} + 11\frac{1}{5} =$

b) $270\frac{2}{3} + 125\frac{1}{5} =$

8 Three buckets are partly filled with water.
Each bucket can hold 10 litres in total.



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



$2\frac{3}{4}$ litres



$3\frac{4}{5}$ litres

Is it possible for all the water to fit into one bucket? _____

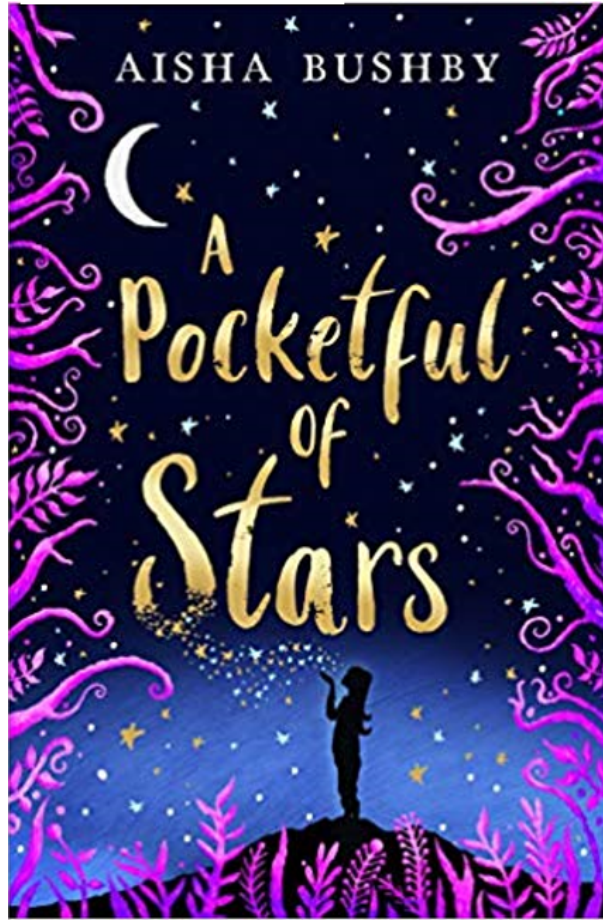
Show all your working.

9 Use the digits 1 to 6 once each to complete the addition.

$$8\frac{3}{20} = \boxed{} + \boxed{}$$



Guided Reading



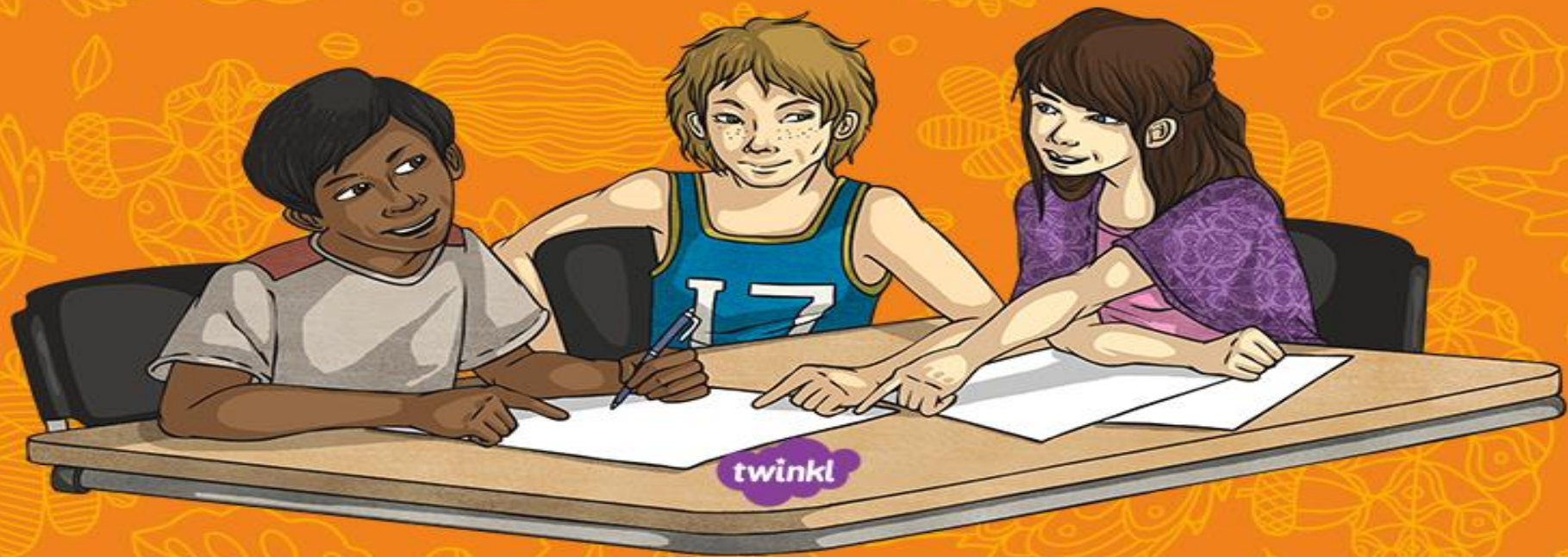
Safiya and her mum have never seen eye to eye. Her mum doesn't understand Safiya's love of gaming and Safiya doesn't think they have anything in common. As Safiya struggles to fit in at school she wonders if her mum wishes she was more like her confident best friend Elle. But then her mum falls into a coma and, when Safiya waits by her bedside, she finds herself in a strange alternative world that looks a bit like one of her games. And there's a rebellious teenage girl, with a secret, who looks suspiciously familiar . . .

- 1) Look at the front cover: make a prediction about the story by using the title and the images on the front of the book.

_____ (2 marks)
- 2) Read the blurb. What does, 'had never seen eye to eye' mean?
_____ (1 mark)
- 3) What does it mean to **fall in to a coma**?
_____ (1 mark)
- 4) What impression do you get of the character Safiya?
_____ (1 mark)

English - Spellings

-able Endings Where the Root Word Ends in 'e'



Can you spot
the two –able
suffix endings in
this sentence?

Due to the changeable weather, the weather reporter said it
was advisable to take an umbrella.

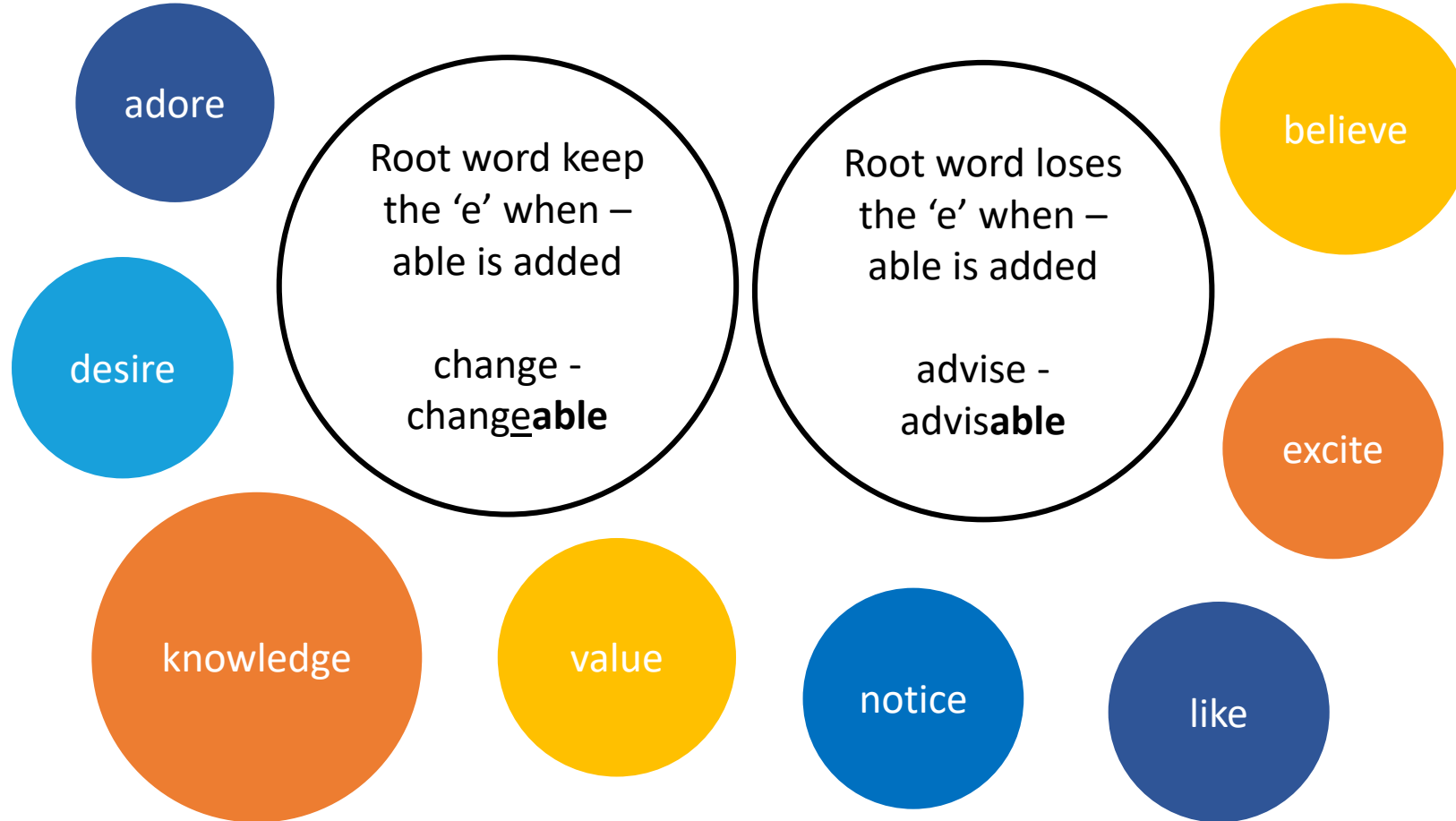
What has
happened to
the two root
words?



changeable

advisable

Working with a partner on a whiteboard, create a sorting diagram and sort these root words. Use a dictionary to help you.



Answers

Root word **keeps** the 'e' when
-able is added:

change = changeable

knowledge = knowledgeable

like = likeable

notice = noticeable

Root word **loses** the 'e' when
-able is added:

advise = advisable

excite = excitable

value = valuable

believe = believable

adore = adorable

desire = desirable

Let's speed write! How many times in the next minute can you write...

adorable

START



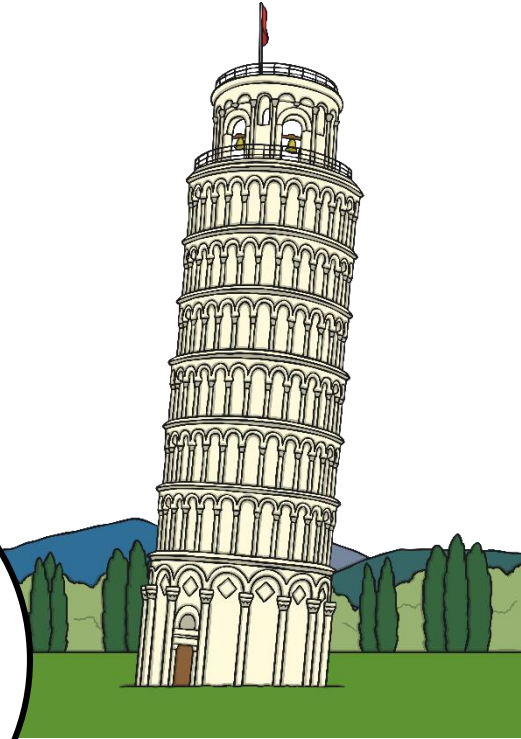
Try to write in
a cursive style
to speed you
up!

Let's speed write! How many times in the next minute can you write...

noticeable

START

Try to write in
a cursive style
to speed you
up!



Let's speed write! How many times in the next minute can you write...

valuable



Try to write in
a cursive style
to speed you
up!

START



Let's speed write! How many times in the next minute can you write...

believable

START

Try to write in
a cursive style
to speed you
up!

?

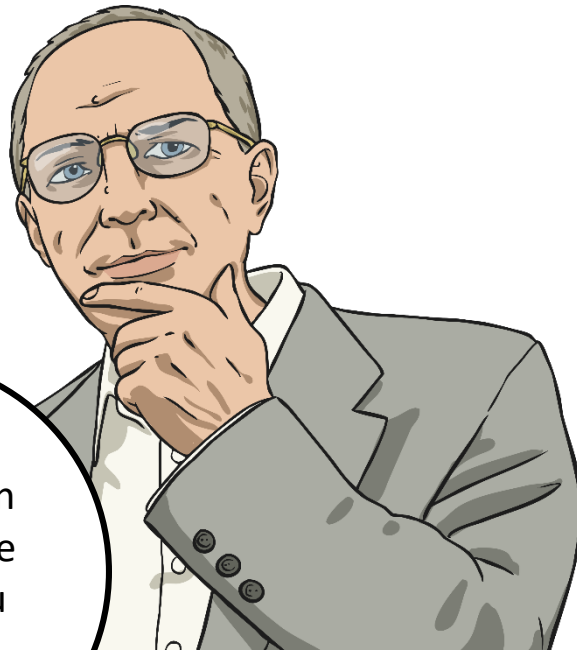


Let's speed write! How many times in the next minute can you write...

knowledgeable

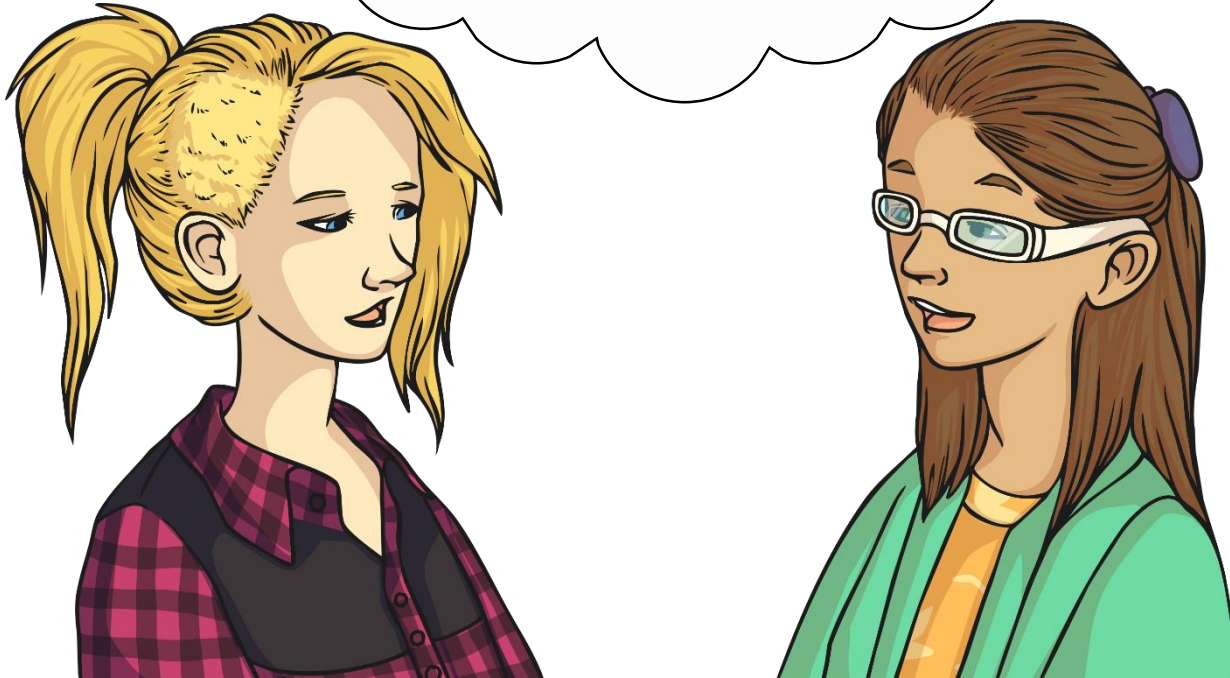
START

Try to write in
a cursive style
to speed you
up!



Here are your spelling words for this week.

Work hard to practise these –
able suffix words and learn
which words keep the 'e' of
their root word.



Week 2 Words ending in -able
adorable
valuable
advisable
believable
desirable
excitable
knowledgeable
likeable
changeable
noticeable

twinkl.co.uk

Words That Have -able Endings

d b e l i e v a b l e k
n o t i c e a b l e x n
g d o a f e l g a i c o
h e l e r l o b s a i w
y s k l t b p h d d t l
u i y b y a a y e o a e
j r u a u e w u r r b d
i a i s a k e i t a l g
a b e i q i t o y b e e
w l t v a l u a b l e a
e e y d c n b l t e l b
r q h a b h h o y j k l
c h a n g e a b l e o e

adorable
valuable
advisable
believable
desirable

excitable
knowledgeable
likeable
changeable
noticeable

Look, Say, Cover, Write and Check!

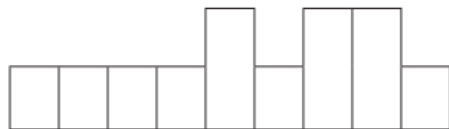
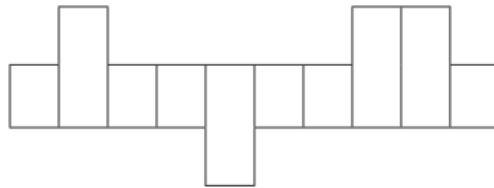
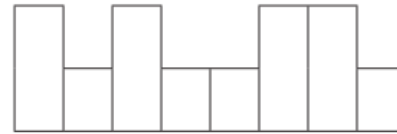
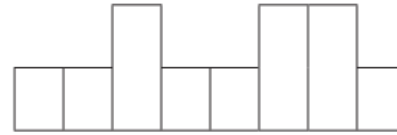
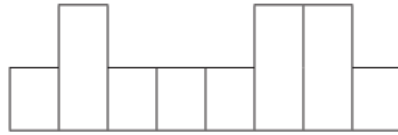
Tick the columns as you follow the instructions from left to right. Make sure you spell the words in the 'write' column. If you spell the word incorrectly, write it again in the 'correction' column.

	Look	Say	Cover	Write	Check	Correction
adorable						
valuable						
advisable						
believable						
desirable						
excitable						
knowledgeable						
likeable						
changeable						
noticeable						

Letter Shape Spellings

Can you work out which of your -able spelling words fit into these letter shapes? Think about the long and tall letters in each word. The first one has been done for you.

Only nine of your spelling words have been used. Which one is missing?



Challenge Task

Which of the words haven't you used? Can you list three synonyms for that word?

P.E

Check out 'Wake Up With Joe' for today's P.E lesson.

[Wake Up With Joe | Day 2 - YouTube](#)