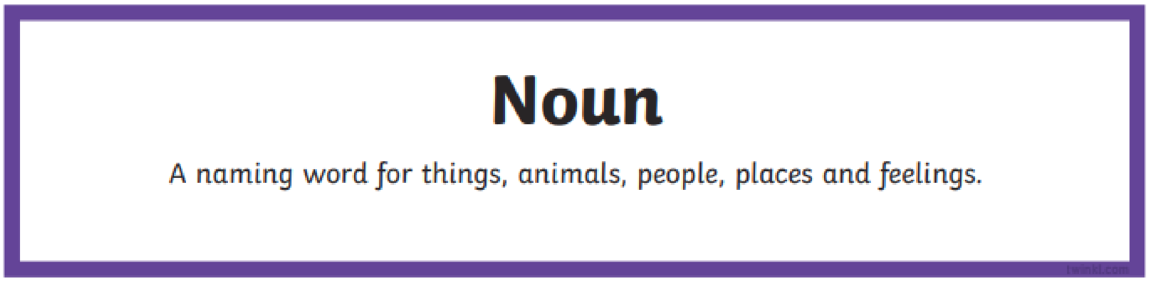
Shaw Primary
Home Learning
January
Pack 3
Year 6

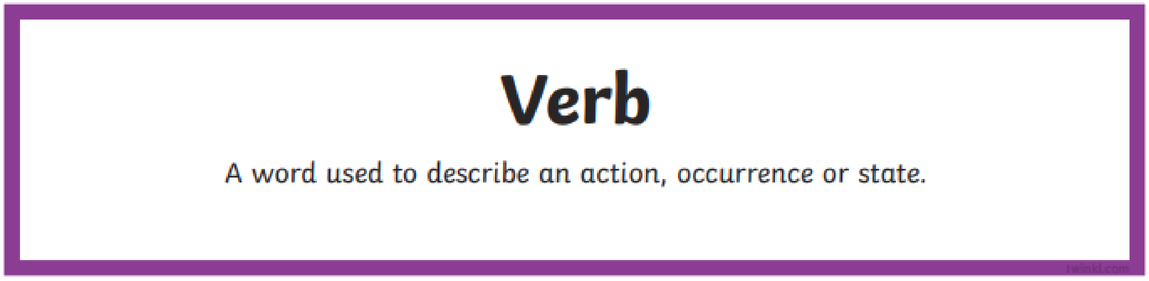
Monday

English- How to train your dragon lesson 1



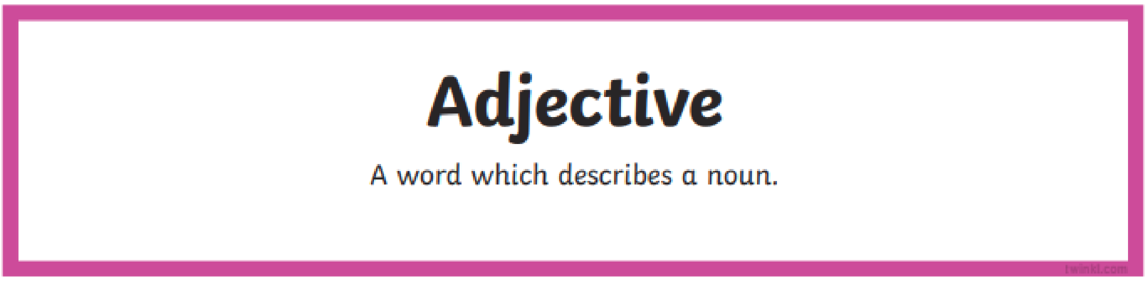
Noun

A naming word for things, animals, people, places and feelings.



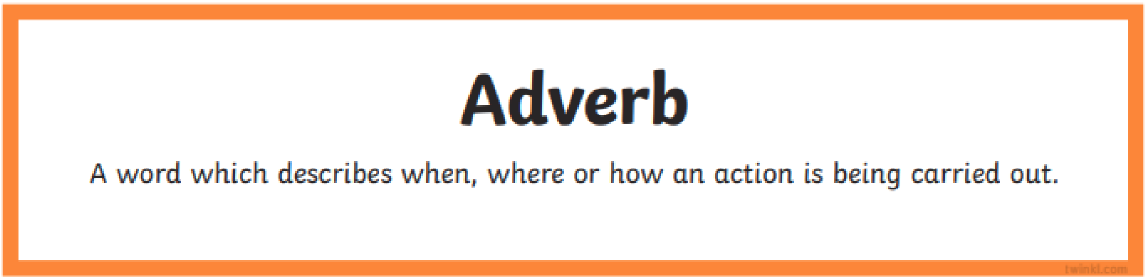
Verb

A word used to describe an action, occurrence or state.



Adjective

A word which describes a noun.

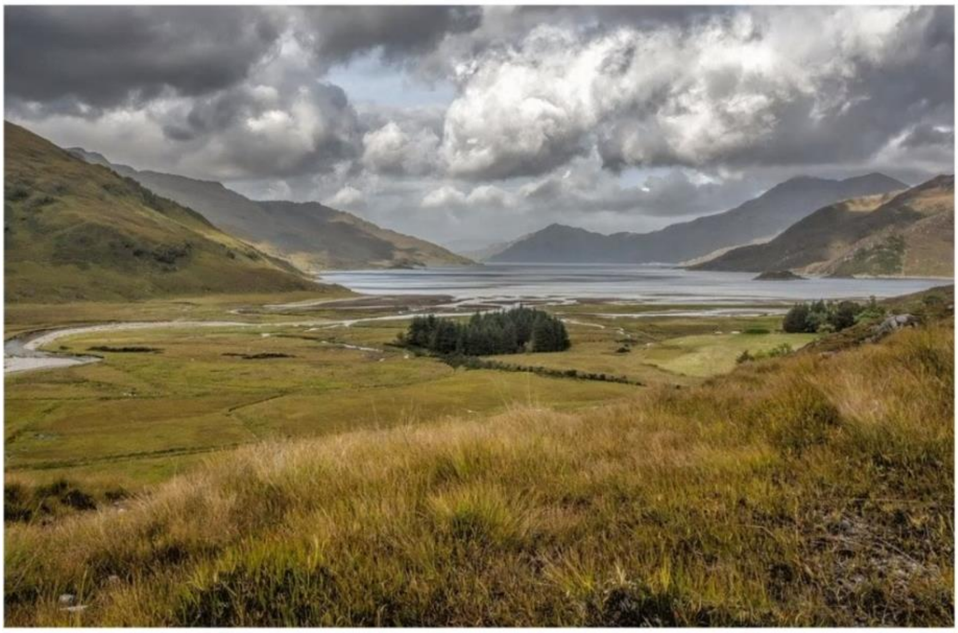


Adverb

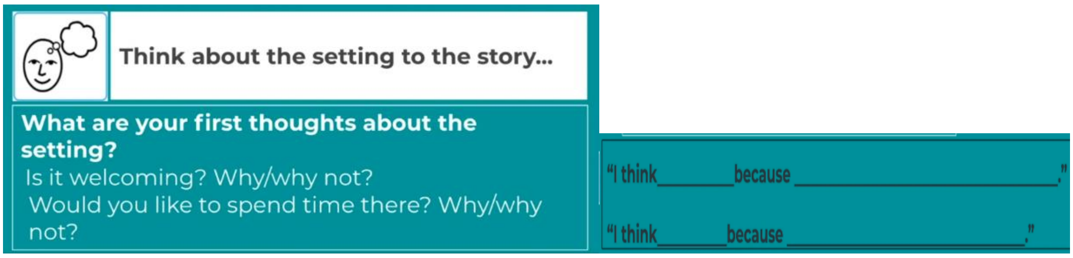
A word which describes when, where or how an action is being carried out.

Which category do these words come under? Use the definitions above to help you.

Dragon	
Flew	
Carefully	
Village	
Anxiously	
Brave	
Remote	
Ran	



This picture above is one of the settings for the story we are going to be writing about for this unit. Answer the questions below in full sentences.



Think about the setting to the story…

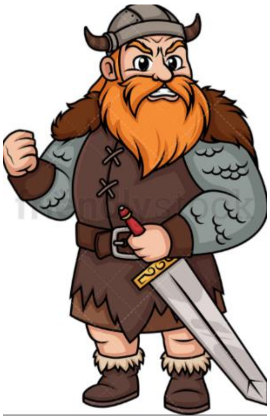
What are your first thoughts about the setting?

Is it welcoming? Why/why not?

Would you like to spend time there? Why/why not?

"I think________because ____________________________."

"I think________because ___________________________."



The main characters in our story are going to be Vikings. Write down 4 describing words or phrases about the picture above. E.g. intimidating, angry face

1) ____

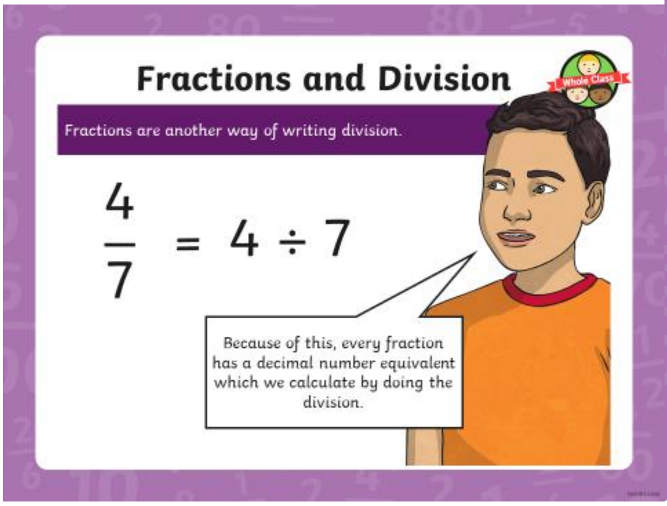
2) ____

3) ____

4) ____

Monday: Mrs Vorster and Ms Tomlinson's Sets

Today, you are going to compare decimals and fractions.

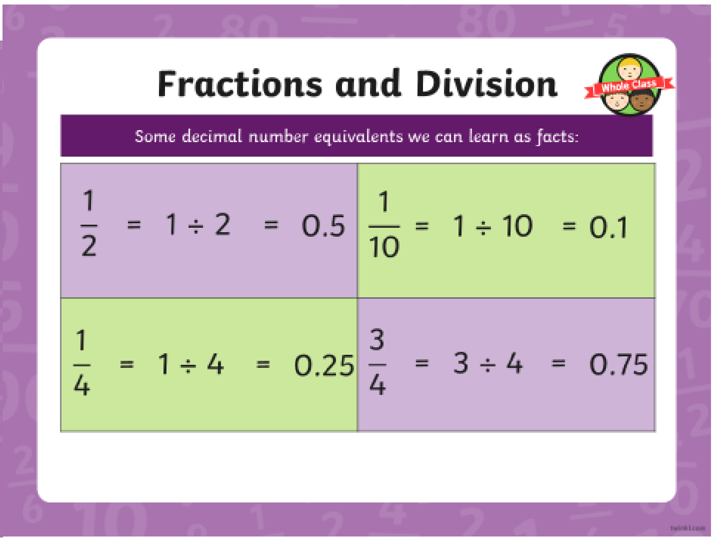


Fractions and Division

Fractions are another way of writing division.

$$\frac{4}{7} = 4 \div 7$$

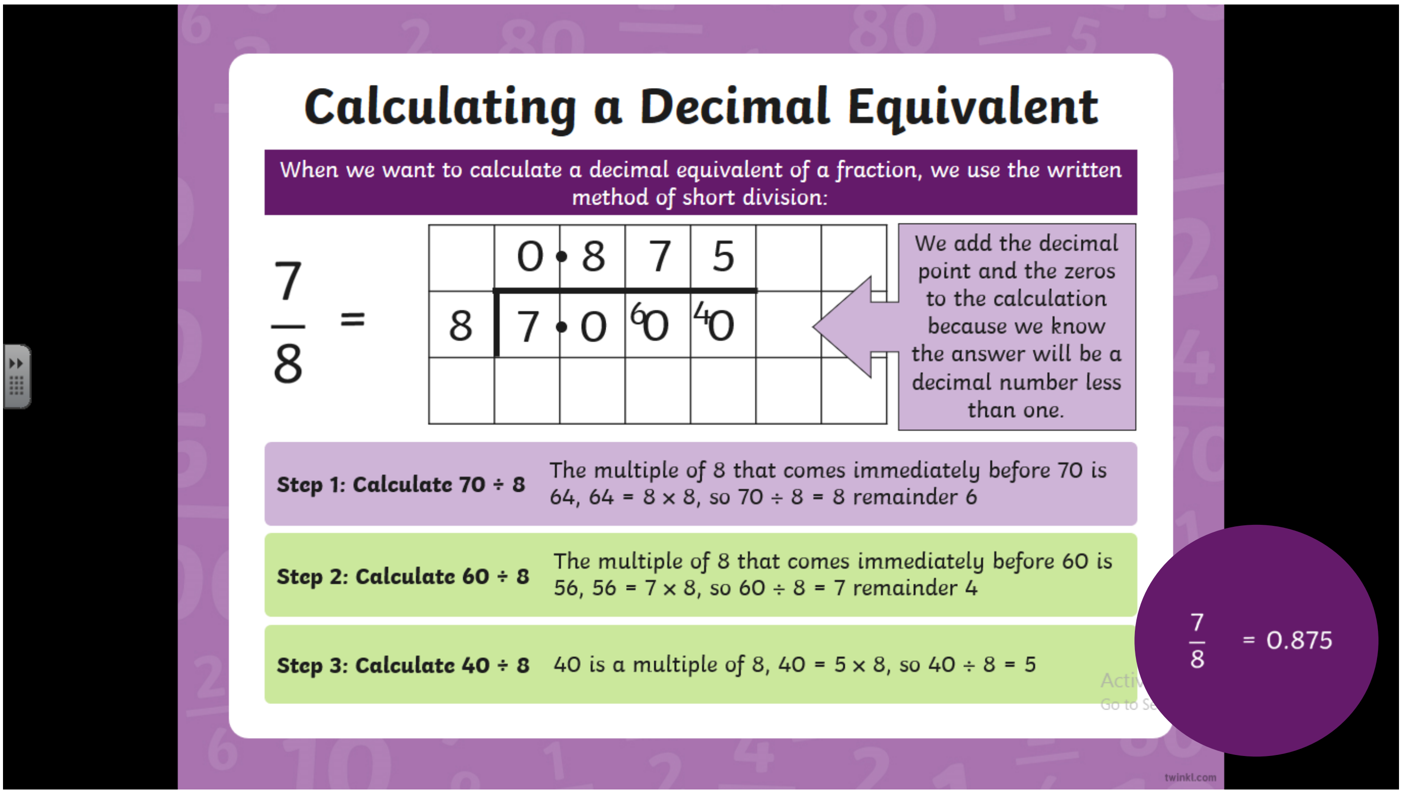
Because of this, every fraction has a decimal number equivalent which we calculate by doing the division.



Fractions and Division

Some decimal number equivalents we can learn as facts:

$\frac{1}{2} = 1 \div 2 = 0.5$	$\frac{1}{10} = 1 \div 10 = 0.1$
$\frac{1}{4} = 1 \div 4 = 0.25$	$\frac{3}{4} = 3 \div 4 = 0.75$



Calculating a Decimal Equivalent

When we want to calculate a decimal equivalent of a fraction, we use the written method of short division:

$$\frac{7}{8} =$$

	0 •	8	7	5		
8	7 •	0	$^{6}0$	$^{4}0$		

We add the decimal point and the zeros to the calculation because we know the answer will be a decimal number less than one.

Step 1: Calculate 70 ÷ 8 The multiple of 8 that comes immediately before 70 is 64, 64 = 8 × 8, so 70 ÷ 8 = 8 remainder 6

Step 2: Calculate 60 ÷ 8 The multiple of 8 that comes immediately before 60 is 56, 56 = 7 × 8, so 60 ÷ 8 = 7 remainder 4

Step 3: Calculate 40 ÷ 8 40 is a multiple of 8, 40 = 5 × 8, so 40 ÷ 8 = 5

$$\frac{7}{8} = 0.875$$

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Fraction and decimal equivalents (1)

Associate a fraction with division and calculate decimal fraction equivalents

Challenge 1

1 Copy each number line, then complete it choosing decimals from the number cards below. Some decimals will be used more than once.

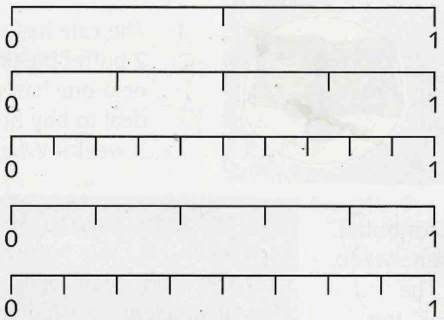
a Halves

b Quarters

c Tenths

d Fifths

e Eighths



0·7 0·875 0·5 0·25 0·4 0·3 0·625 0·2

0·9 0·1 0·125 0·6 0·75 0·8 0·375

[redacted]

3 Complete these calculations.

a 0·5 + ☐ = 1

b 0·25 + ☐ + ☐ + ☐ = 1

c 0·1 + 0·1 + ☐ + ☐ + ☐ + ☐ + ☐ + ☐ + ☐ + ☐ = 1

d 0·2 + ☐ + ☐ + ☐ + ☐ = 1

e 0·125 + 0·125 + ☐ + ☐ + ☐ + ☐ + ☐ + ☐ = 1

Challenge 2

1 Read the title of each number line. Copy the number lines and write in the appropriate fractions or decimals. On some lines, not all the scale marks will need a value.

You will need:
- coloured pencils

a Decimal fractions: halves

b Fractions: quarters

c Decimal fractions: quarters

d Fractions: tenths

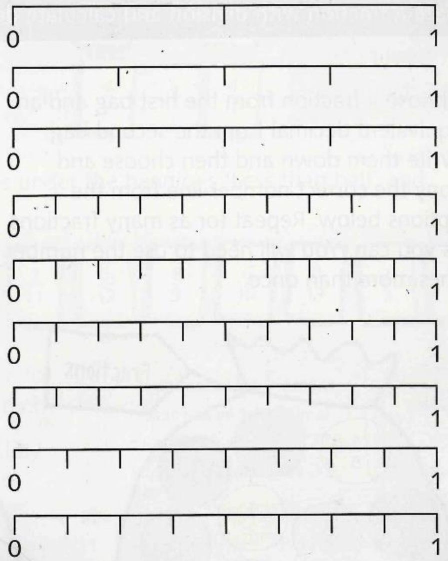
e Decimal fractions: tenths

f Fractions: fifths

g Decimal fractions: fifths

h Fractions: eighths

i Decimal fractions: eighths



2 Look at all your number lines from Question 1. Using coloured pencils, circle the fractions and decimals that are equivalent. Can you find any groups of three that are equivalent?

Challenge 3

1 Explain clearly why $\frac{1}{8} = 0{\cdot}125$. Read your explanation to a partner. Ask them to give you some feedback about how well you have explained the maths.

2 What decimal is equivalent to each of the fractions below? Explain to a partner how you worked them out.

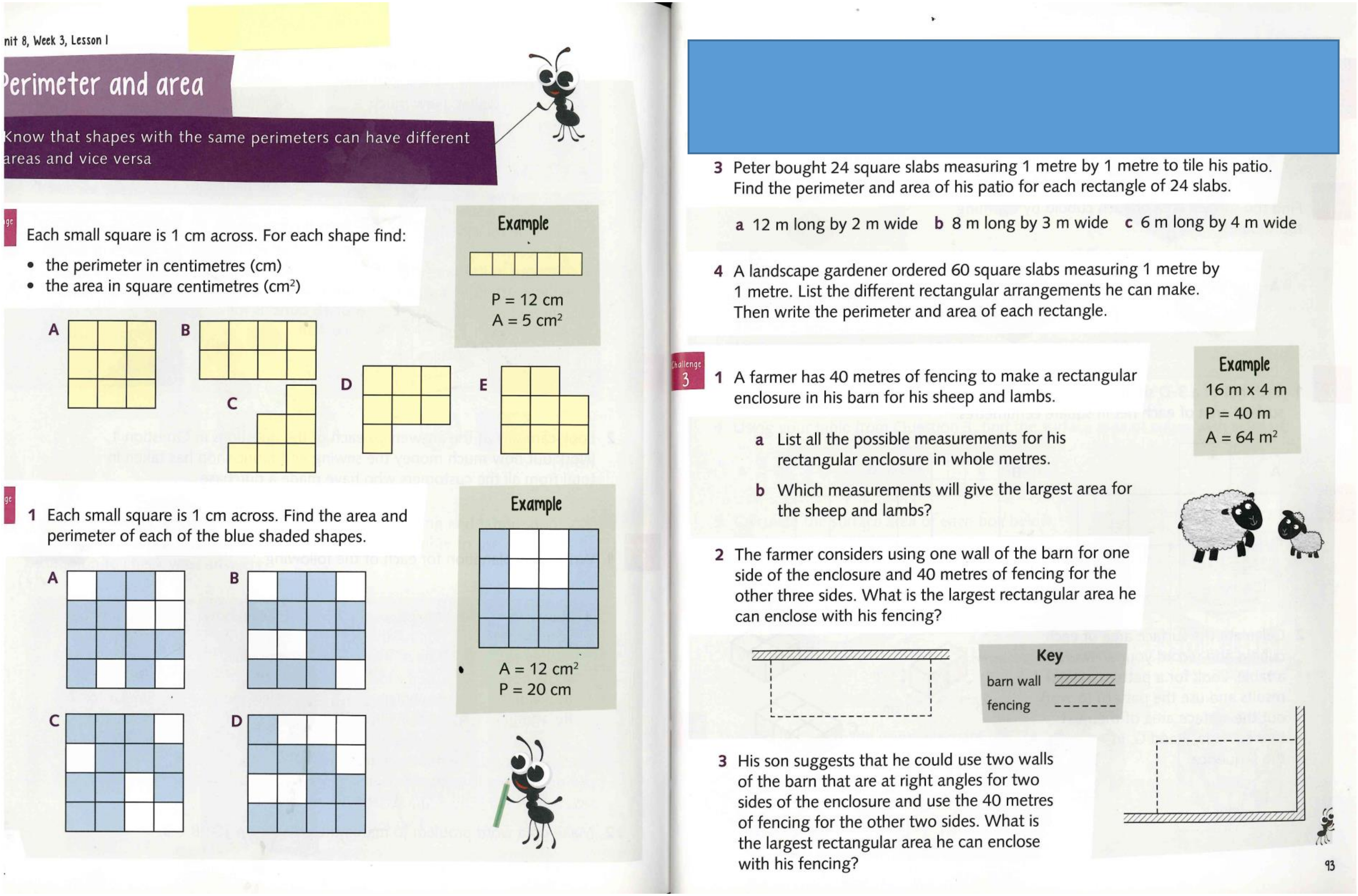
$\frac{1}{20}$ $\frac{5}{20}$ $\frac{13}{20}$ $\frac{15}{20}$ $\frac{19}{20}$

3 What do you notice about the decimal equivalents for these two fractions? Why is this?

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

Monday: Mrs Newland's Set

Today, we are looking at measure and how it links with our learning on decimals.



erimeter and area

Know that shapes with the same perimeters can have different areas and vice versa

ge

Each small square is 1 cm across. For each shape find:

- the perimeter in centimetres (cm)
- the area in square centimetres (cm²)

A B C D E

Example

P = 12 cm
A = 5 cm²

ge

1 Each small square is 1 cm across. Find the area and perimeter of each of the blue shaded shapes.

A B C D

Example

A = 12 cm²
P = 20 cm

[redacted]

3 Peter bought 24 square slabs measuring 1 metre by 1 metre to tile his patio. Find the perimeter and area of his patio for each rectangle of 24 slabs.

a 12 m long by 2 m wide **b** 8 m long by 3 m wide **c** 6 m long by 4 m wide

4 A landscape gardener ordered 60 square slabs measuring 1 metre by 1 metre. List the different rectangular arrangements he can make. Then write the perimeter and area of each rectangle.

Challenge 3

1 A farmer has 40 metres of fencing to make a rectangular enclosure in his barn for his sheep and lambs.

- **a** List all the possible measurements for his rectangular enclosure in whole metres.
- **b** Which measurements will give the largest area for the sheep and lambs?

Example

16 m x 4 m
P = 40 m
A = 64 m²

2 The farmer considers using one wall of the barn for one side of the enclosure and 40 metres of fencing for the other three sides. What is the largest rectangular area he can enclose with his fencing?

Key

barn wall ▨
fencing - - - - - -

3 His son suggests that he could use two walls of the barn that are at right angles for two sides of the enclosure and use the 40 metres of fencing for the other two sides. What is the largest rectangular area he can enclose with his fencing?

Fossils

Fossils are shapes of dead animals and plants that lived millions of years ago made in rock. Usually when something dies it is eaten or decays and disappears. However, when an animal or plant dies it can get covered over and, over millions of years, become a fossil.

Dinosaurs

- Fossils are really important to know what happened a long time ago.
- Without fossils we would not even know that dinosaurs existed!
- People who study fossils are called palaeontologists.
- Palaeontologists started studying fossils 200 years ago, so we've only known about dinosaurs for 200 years!

Did You Know...?

- 'Sue' is the nickname given to the most complete and best preserved Tyrannosaurus rex specimen ever found
- The word 'fossil' comes from an old word 'fossilis', meaning 'dug up'.
- Fossils are only found in sedimentary rock.
- The fossils in the pictures are called ammonites. It is the town symbol for Whitby in North Yorkshire. Whitby is good for fossil hunting and long ago, people thought that the ammonites were snakes turned to stone by St. Hilda!

How a Fossil is Made

When a plant or animal dies, their body can sink into mud or be buried by sand. This usually happens at the bottom of the sea. When this happens it doesn't disappear. When it is underground, water and minerals leak into the bones and where bits of body used to be. This makes a hard shape. Next, the fossil gets squashed under more layers of sand, mud and other bits that make sedimentary rock. Finally, over many,many millions of years a fossil is created for someone to dig up one day.

Fossils Questions

1. How long have we known about dinosaurs? Tick **one**.

   ○ 200 million years
   ○ 200 thousand years
   ○ 200 years
   ○ 200 days

2. What is the name of a person who studies fossils?

   ____

3. What is the nickname of the best preserved Tyrannosaurus rex skeleton? Tick **one**.

   ○ Sam
   ○ Sue
   ○ Sylvia
   ○ Sandra

4. Fossils got their name from the old word **fossilis** which is an old word meaning... Tick **one**.

   ○ fossils
   ○ dug up
   ○ buried
   ○ old

5. Tick the boxes to say whether the sentences are true or false.

	True	False
Some people used to think ammonites were snakes turned into stone.		
Whitby is a town in South Yorkshire.		
Fossils can't be made under the sea.		
Fossils take millions of years to make.		

6. Why weren't fossilised animals or plants eaten by other animals?

   ____

7. The author used an exclamation mark at the end of the **Did You Know...?** section to make it sound surprising. Why is that sentence surprising?

   ____

   ____

Tuesday **English**- How to train your dragon lesson 2

Making Singular Nouns Plural

1. Choose the correct plural noun to fit in the spaces.

a) Milly took all the _____________ out of the box and put them away.

hat **hats** **hates**

b) Tahir's ________________ started falling out when he was six.

tooth **tooths** **teeth**

c) My grandpa loves to eat fresh _________________________.

tomatos **tomatoes** **tomaties**

d) Some people say that cats have nine ____________________.

lives **lifes** **lifi**

2. Draw arrows to match these singular nouns to their plurals.

mouse	feet
wife	mice
foot	babies
sheep	fungi
fungus	wives
scissors	handcuffs
handcuff	sheep
baby	scissors

Making Singular Nouns Plural

Make this set of singular nouns plural and put them in the right group.

Singular Nouns Word Bank

mouse
knife
person
church
box
chair
life
sheep
tooth
fungus
baby

tomato
die
foot
cactus
daisy
boat
elf
memo
garden
domino
fish

Making Singular Nouns Plural

Add -s

Ends in ‘o’? Add -s or -es

Drop ‘y’ and add -ies

Add -es

Don’t change a thing

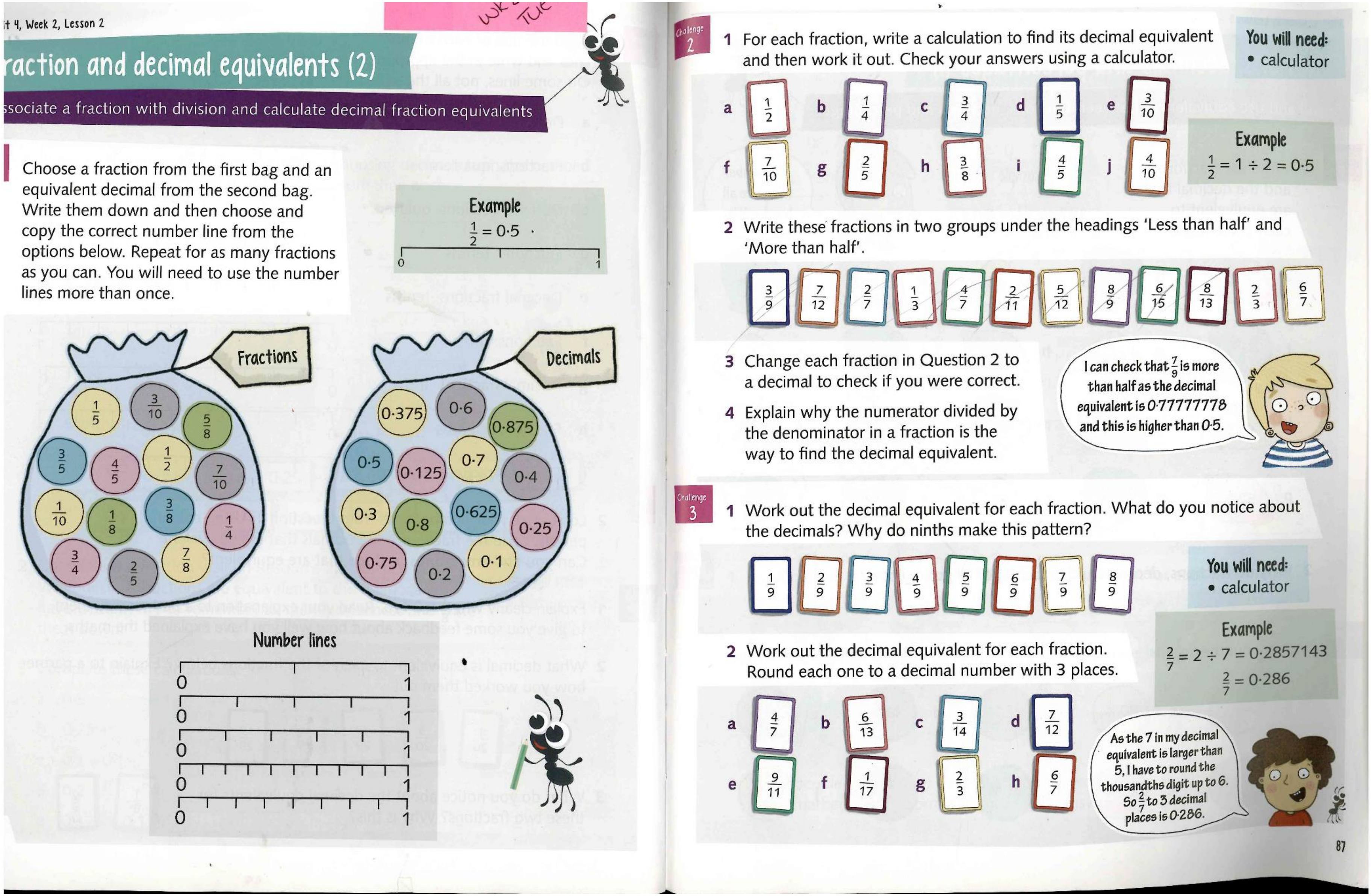
Drop ‘us’ and add -i

Change the entire word

Drop ‘f’ or ‘fe’ and add -ves

Can you fill the boxes with more examples of your own?

Tuesday: Mrs Vorster and Ms Tomlinson's Sets: Today we are carrying on with decimals and fractions, check back to yesterday's lesson.



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Wk Tue

raction and decimal equivalents (2)

ssociate a fraction with division and calculate decimal fraction equivalents

Choose a fraction from the first bag and an equivalent decimal from the second bag. Write them down and then choose and copy the correct number line from the options below. Repeat for as many fractions as you can. You will need to use the number lines more than once.

Example

$\frac{1}{2} = 0{\cdot}5$

Fractions

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

Decimals

0·375, 0·6, 0·875, 0·5, 0·125, 0·7, 0·4, 0·3, 0·8, 0·625, 0·25, 0·75, 0·2, 0·1

Number lines

Challenge 2

You will need:
- calculator

1 For each fraction, write a calculation to find its decimal equivalent and then work it out. Check your answers using a calculator.

Example

$\frac{1}{2} = 1 \div 2 = 0{\cdot}5$

a $\frac{1}{2}$ b $\frac{1}{4}$ c $\frac{3}{4}$ d $\frac{1}{5}$ e $\frac{3}{10}$

f $\frac{7}{10}$ g $\frac{2}{5}$ h $\frac{3}{8}$ i $\frac{4}{5}$ j $\frac{4}{10}$

2 Write these fractions in two groups under the headings 'Less than half' and 'More than half'.

$\frac{3}{9}$ $\frac{7}{12}$ $\frac{2}{7}$ $\frac{1}{3}$ $\frac{4}{7}$ $\frac{2}{11}$ $\frac{5}{12}$ $\frac{8}{9}$ $\frac{6}{15}$ $\frac{8}{13}$ $\frac{2}{3}$ $\frac{6}{7}$

3 Change each fraction in Question 2 to a decimal to check if you were correct.

4 Explain why the numerator divided by the denominator in a fraction is the way to find the decimal equivalent.

I can check that $\frac{7}{9}$ is more than half as the decimal equivalent is 0·77777778 and this is higher than 0·5.

Challenge 3

You will need:
- calculator

1 Work out the decimal equivalent for each fraction. What do you notice about the decimals? Why do ninths make this pattern?

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

Example

$\frac{2}{7} = 2 \div 7 = 0{\cdot}2857143$

$\frac{2}{7} = 0{\cdot}286$

2 Work out the decimal equivalent for each fraction. Round each one to a decimal number with 3 places.

a $\frac{4}{7}$ b $\frac{6}{13}$ c $\frac{3}{14}$ d $\frac{7}{12}$

e $\frac{9}{11}$ f $\frac{1}{17}$ g $\frac{2}{3}$ h $\frac{6}{7}$

As the 7 in my decimal equivalent is larger than 5, I have to round the thousandths digit up to 6. So $\frac{2}{7}$ to 3 decimal places is 0·286.

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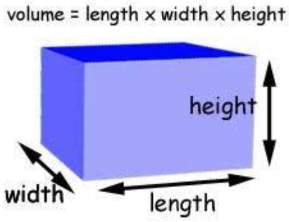
Tuesday: Mrs Newland's Set:

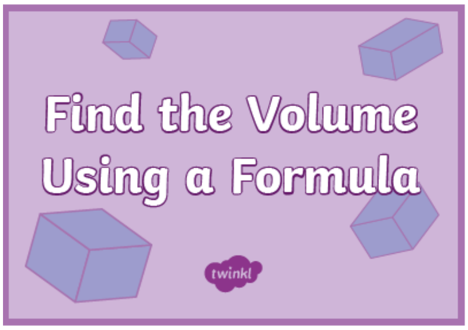
Today we are finding the volume of cuboids. Do you know the formula already?

It's similar to finding the area (length times height):

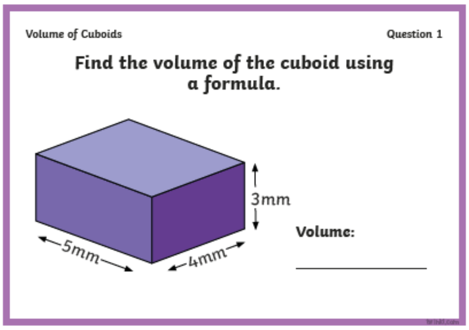

volume = length x width x height
height
width
length

Length x Height x Width (how wide is the object)

Can you apply this knowledge to these cards? Don't forget to add units to your answers. Volume is in units cubed – e.g cm^3.



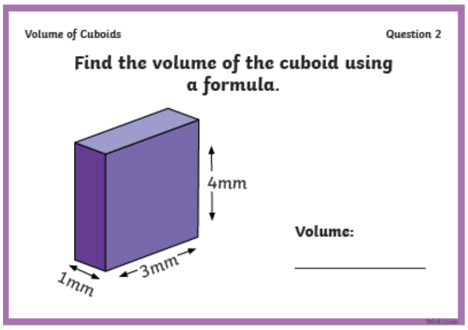
Find the Volume Using a Formula



Volume of Cuboids Question 1

Find the volume of the cuboid using a formula.

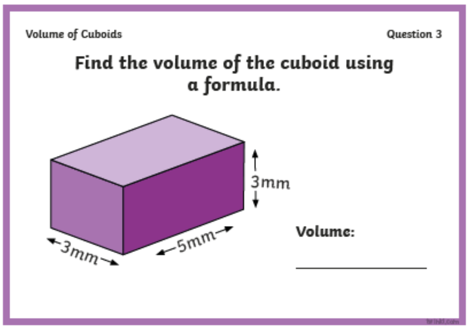
Volume: ____________



Volume of Cuboids Question 2

Find the volume of the cuboid using a formula.

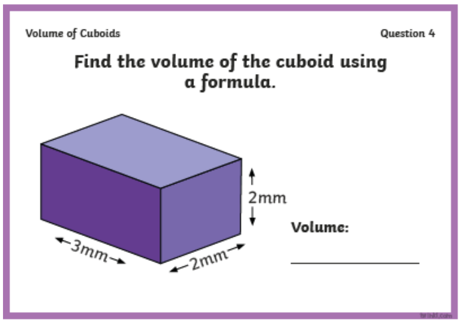
Volume: ____________



Volume of Cuboids Question 3

Find the volume of the cuboid using a formula.

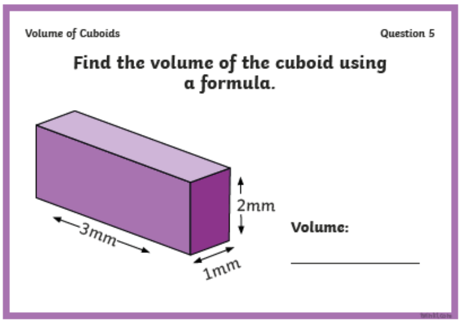
Volume: ____________



Volume of Cuboids Question 4

Find the volume of the cuboid using a formula.

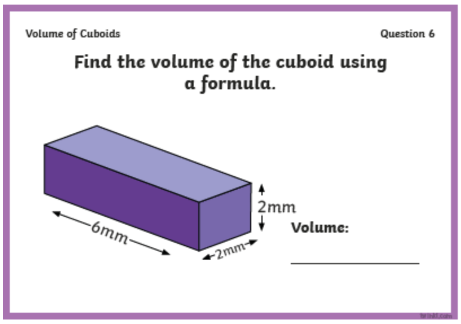
Volume: ____________



Volume of Cuboids Question 5

Find the volume of the cuboid using a formula.

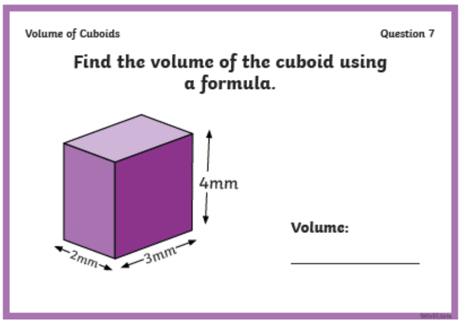
Volume: ____________



Volume of Cuboids Question 6

Find the volume of the cuboid using a formula.

Volume: ____________



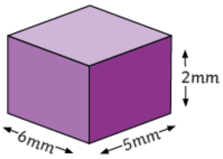
Volume of Cuboids Question 7

Find the volume of the cuboid using a formula.

Volume: ____________

Volume of Cuboids Question 12

Find the volume of the cuboid using a formula.

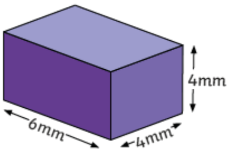


Volume:

____

Volume of Cuboids Question 13

Find the volume of the cuboid using a formula.

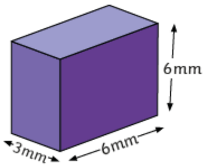


Volume:

____

Volume of Cuboids Question 14

Find the volume of the cuboid using a formula.

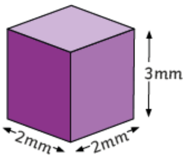


Volume:

____

Volume of Cuboids Question 15

Find the volume of the cuboid using a formula.

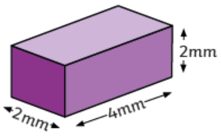


Volume:

____

Volume of Cuboids Question 16

Find the volume of the cuboid using a formula.

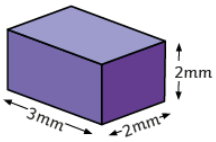


Volume:

____

Volume of Cuboids Question 17

Find the volume of the cuboid using a formula.

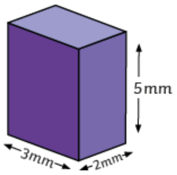


Volume:

____

Volume of Cuboids Question 18

Find the volume of the cuboid using a formula.

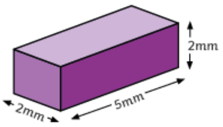


Volume:

____

Volume of Cuboids Question 19

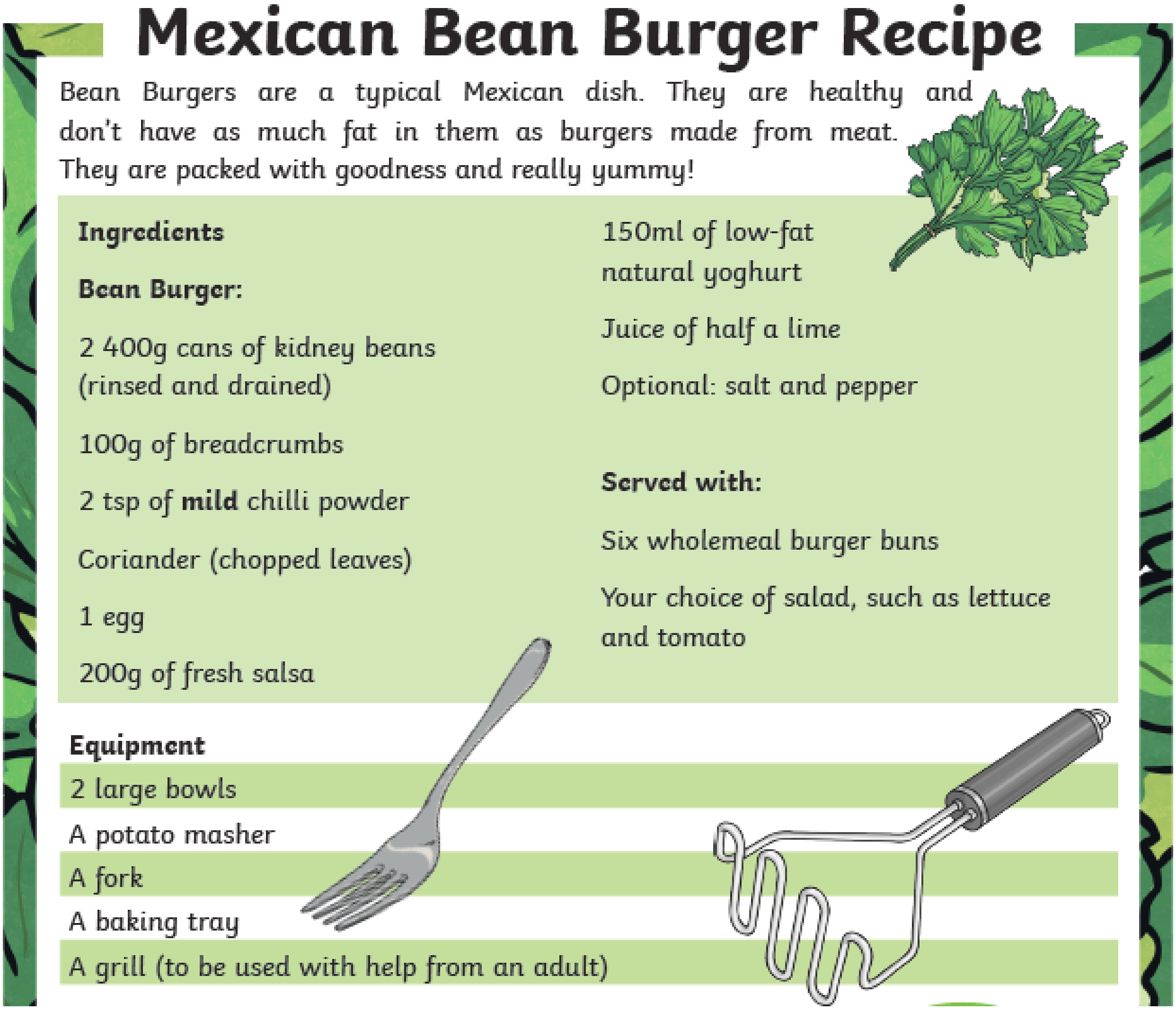
Find the volume of the cuboid using a formula.



Volume:

____

Citizenship – healthy eating



Mexican Bean Burger Recipe

Bean Burgers are a typical Mexican dish. They are healthy and don't have as much fat in them as burgers made from meat. They are packed with goodness and really yummy!

Ingredients

Bean Burger:

2 400g cans of kidney beans (rinsed and drained)

100g of breadcrumbs

2 tsp of **mild** chilli powder

Coriander (chopped leaves)

1 egg

200g of fresh salsa

150ml of low-fat natural yoghurt

Juice of half a lime

Optional: salt and pepper

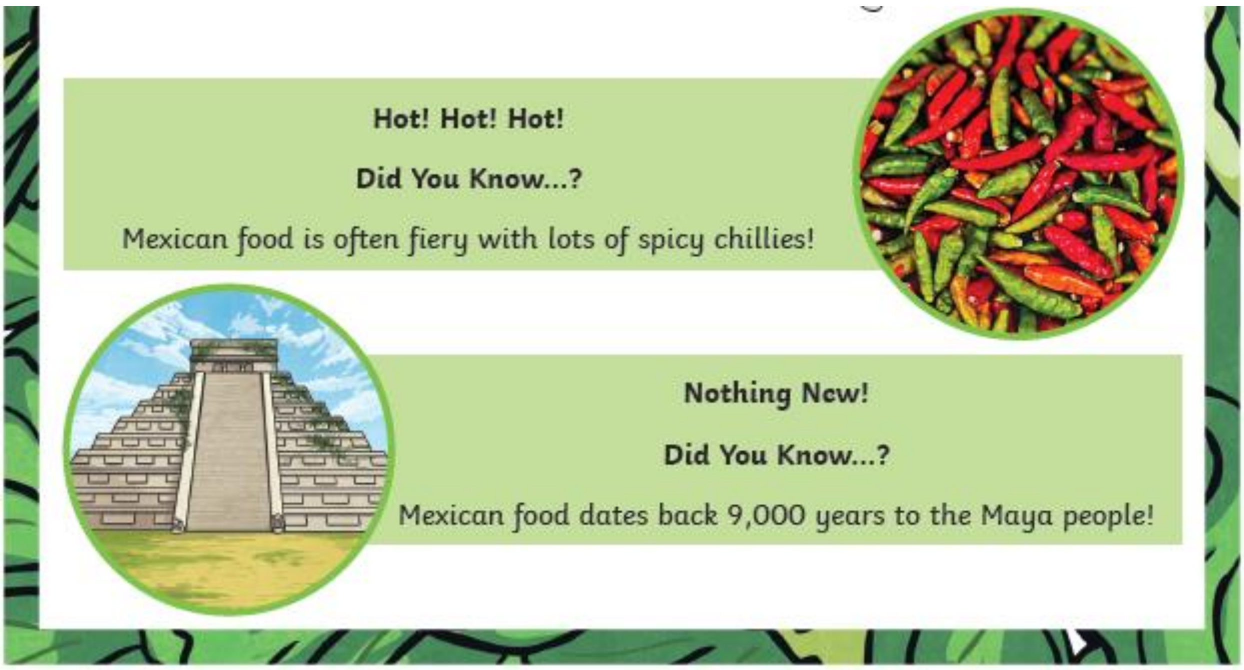
Served with:

Six wholemeal burger buns

Your choice of salad, such as lettuce and tomato

Equipment

- 2 large bowls
- A potato masher
- A fork
- A baking tray
- A grill (to be used with help from an adult)



Hot! Hot! Hot!

Did You Know...?

Mexican food is often fiery with lots of spicy chillies!

Nothing New!

Did You Know...?

Mexican food dates back 9,000 years to the Maya people!

Method

1. Place the kidney beans into a large bowl and mash them with a potato masher.
2. Tip the breadcrumbs, chilli powder, egg, salsa and half of the coriander leaves into the bowl with the mashed kidney beans.
3. Add salt and pepper if you like, then mix everything together using a fork.
4. Now, wet your hands. Use your fingers to shape the mixture into six burgers.
5. Slide the burgers onto a non-stick baking tray.
6. With an adult's help, turn on the grill to a medium heat.
7. Grill the burgers for 4-5 minutes on each side.
8. Once cooked, place the Bean Burgers onto buns and add the sauce you have made.
9. Serve with salad.
10. Time to eat! Enjoy your delicious Mexican Bean Burger!

Mexican Bean Burger Sauce

While the burgers are cooking, mix the remaining coriander leaves, yoghurt and lime juice together in a separate bowl.

Questions

1. What are Mexican Bean Burgers packed with? Tick **one**.

   ○ fat
   ○ meat
   ○ goodness
   ○ badness

2. What makes Mexican food fiery sometimes?

   ____

3. Only two of the following ingredients are correct. Tick the **two** that are correct.

   ○ 6 400g cans of baked beans (rinsed and drained)
   ○ 100g of breadcrumbs
   ○ 2 tsp of mild chilli powder
   ○ 4 eggs

4. Number these steps to show the order that they should happen in. The first one has been done for you.

   ☐ With an adult's help, turn on the grill.
   ☐ Use your fingers to shape the mixture into six burgers.
   1 Place the kidney beans into a large bowl.
   ☐ Add salt and pepper if you like.
   ☐ Enjoy your delicious Mexican Bean Burger!

5. What should you do while the burgers are cooking?

   ____

6. Draw a line to join the food with the amount needed in the recipe.

lime ●	● 200g
fresh salsa ●	● 150ml
low-fat yoghurt ●	● juice of half

7. Which part of the instructions do you think you would enjoy the most? Explain your answer.

   ____

   ____

Wednesday

English- How to train your dragon lesson 3

Nouns Verbs Adjectives Adverbs

The fiery dragons flew fiercely across the remote village.

Put the words from the sentence above in the correct boxes:

Nouns	Verbs	Adjectives	Adverbs

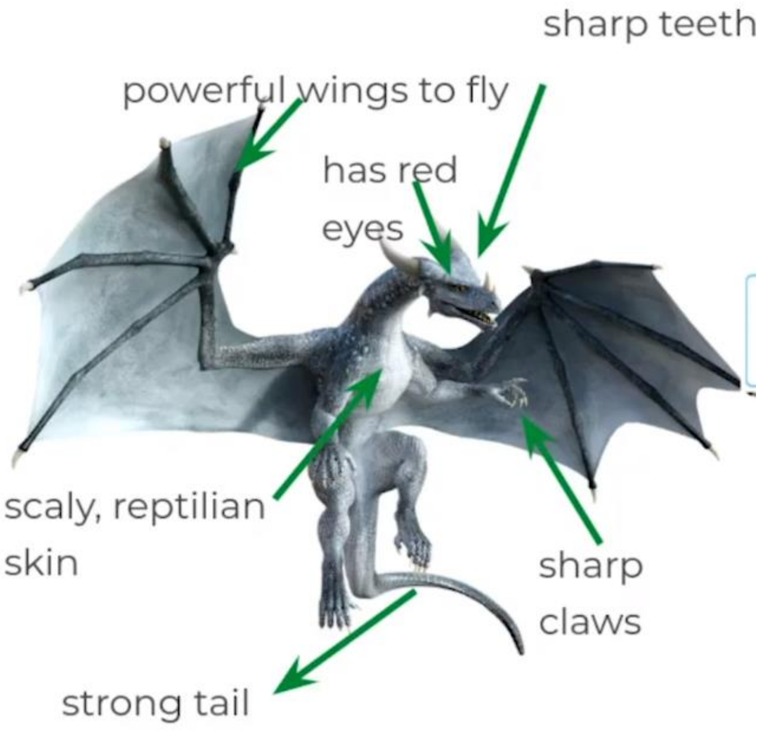
Read the information below:

A simple sentence has one **main** clause.

A **main clause** makes sense on its own.

The dragons **soared** through the sky.

A **simple sentence** has **one main clause** and a **clause** must have a **verb**


sharp teeth
powerful wings to fly
has red eyes
scaly, reptilian skin
sharp claws
strong tail

Now write 3 simple sentences about dragons.

1) ____

____

____

2) ____

____

____

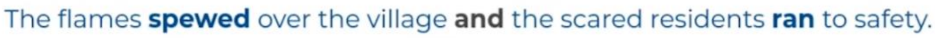
3) ____

____

____

Compound sentences are two simple sentences joined with a co-ordinating conjunction (and, but, so, or, nor, for)

E.g.



The flames **spewed** over the village **and** the scared residents **ran** to safety.

Now either improve your simple sentences so that they are compound sentences or write 3 new compound sentences about dragons:

1) ____

____

____

2) ____

____

____

3) ____

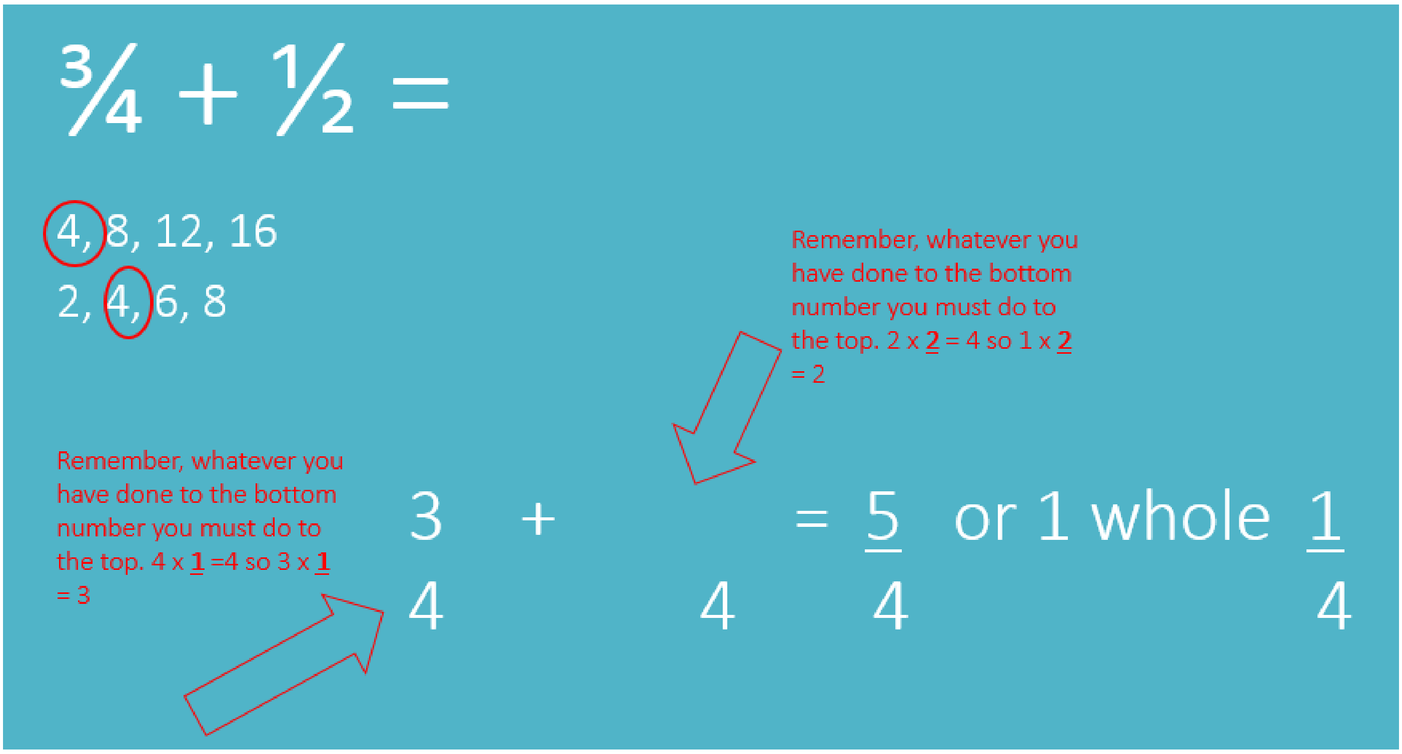
____

____

Wednesday: Mrs Vorster and Ms Tomlinson's Sets

Today we are adding fractions. Don't forget to check if you need to change the denominators (if the denominators – bottom numbers – are different). To change the denominator:

- Write out the times tables for each denominator
- Circle the lowest number that appears in both lists
- Times the numerator (top number) of each fraction by whatever you have multiplied the bottom by



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

$\bigcirc\!\!\!\!4$, 8, 12, 16

2, $\bigcirc\!\!\!\!4$, 6, 8

Remember, whatever you have done to the bottom number you must do to the top. 2 x **2** = 4 so 1 x **2** = 2

Remember, whatever you have done to the bottom number you must do to the top. 4 x **1** =4 so 3 x **1** = 3

$\frac{3}{4} + \frac{}{4} = \frac{5}{4}$ or 1 whole $\frac{1}{4}$

wk2 weds

dding fractions

dd fractions with different denominators and mixed numbers,
sing the concept of equivalent fractions

1 Add these mixed numbers together. Show your working.

a $3\frac{2}{5} + 7\frac{1}{5}$
b $5\frac{1}{4} + 7\frac{2}{4}$
c $6\frac{5}{8} + 4\frac{2}{8}$
d $7\frac{3}{9} + 6\frac{5}{9}$
e $5\frac{4}{10} + 3\frac{5}{10}$
f $2\frac{2}{3} + 5\frac{1}{3}$
g $8\frac{2}{7} + 6\frac{4}{7}$
h $9\frac{1}{2} + 5\frac{1}{2}$
i $5\frac{3}{12} + 4\frac{5}{12}$
j $7\frac{5}{11} + 8\frac{5}{11}$

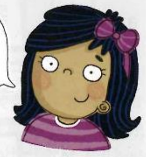
Example

$2\frac{3}{6} + 5\frac{2}{6}$

$2 + 5 = 7$

$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

$7 + \frac{5}{6} = 7\frac{5}{6}$



Add the whole numbers and then the fractions.

2 Add these fractions and then convert the answer to a mixed number.

a $\frac{3}{4} + \frac{3}{4}$
b $\frac{4}{5} + \frac{3}{5}$
c $\frac{5}{7} + \frac{4}{7}$
d $\frac{7}{8} + \frac{3}{8}$
e $\frac{7}{9} + \frac{7}{9}$
f $\frac{4}{7} + \frac{6}{7}$
g $\frac{8}{10} + \frac{6}{10}$
h $\frac{9}{11} + \frac{5}{11}$
i $\frac{7}{12} + \frac{6}{12}$

Example

$\frac{3}{6} + \frac{5}{6} = \frac{8}{6}$

$\frac{8}{6} = 1\frac{2}{6} = 1\frac{1}{3}$

1 Add these mixed numbers together.

a $3\frac{4}{5} + 6\frac{3}{5}$
b $2\frac{6}{8} + 4\frac{5}{8}$
c $6\frac{2}{3} + 8\frac{2}{3}$
d $5\frac{4}{9} + 7\frac{6}{9}$
e $6\frac{7}{10} + 8\frac{5}{10}$
f $9\frac{3}{4} + 5\frac{3}{4}$
g $3\frac{11}{13} + 6\frac{2}{13}$
h $8\frac{4}{7} + 5\frac{6}{7}$
i $9\frac{8}{12} + 7\frac{5}{12}$
j $3\frac{6}{13} + 7\frac{11}{13}$

2 Choose two of the mixed numbers below and add them together. Do this ten times. The mixed numbers can be used more than once, but not in the same pair.

$6\frac{2}{3}$ $7\frac{5}{6}$ $9\frac{7}{8}$ $3\frac{4}{10}$
$8\frac{3}{5}$ $9\frac{1}{2}$ $6\frac{11}{15}$
$8\frac{3}{4}$ $4\frac{5}{7}$ $7\frac{8}{9}$ $2\frac{7}{12}$

Hint

First convert the fractions to equivalent fractions with the same denominator.

Example

$7\frac{2}{3} + 3\frac{7}{8}$

$7 + 3 = 10$

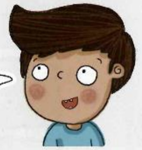
$\frac{2}{3} + \frac{7}{8} = \frac{16}{24} + \frac{21}{24}$

$= \frac{37}{24}$

$= 1\frac{13}{24}$

$10 + 1\frac{13}{24} = 11\frac{13}{24}$

3 Which combinations of mixed numbers in Question 2 did you find easiest to add? Explain why.



Check that your answers are simplified to the lowest form.

Challenge 3

1 Add these improper fractions. Write each answer as a mixed number.

a $\frac{5}{3} + \frac{4}{3}$
b $\frac{6}{8} + \frac{7}{8}$
c $\frac{9}{4} + \frac{5}{4}$
d $\frac{7}{5} + \frac{8}{5}$
e $\frac{3}{2} + \frac{5}{2}$
f $\frac{9}{6} + \frac{7}{6}$
g $\frac{12}{10} + \frac{15}{10}$
h $\frac{11}{5} + \frac{9}{5}$
i $\frac{8}{4} + \frac{9}{4}$
j $\frac{15}{12} + \frac{14}{12}$

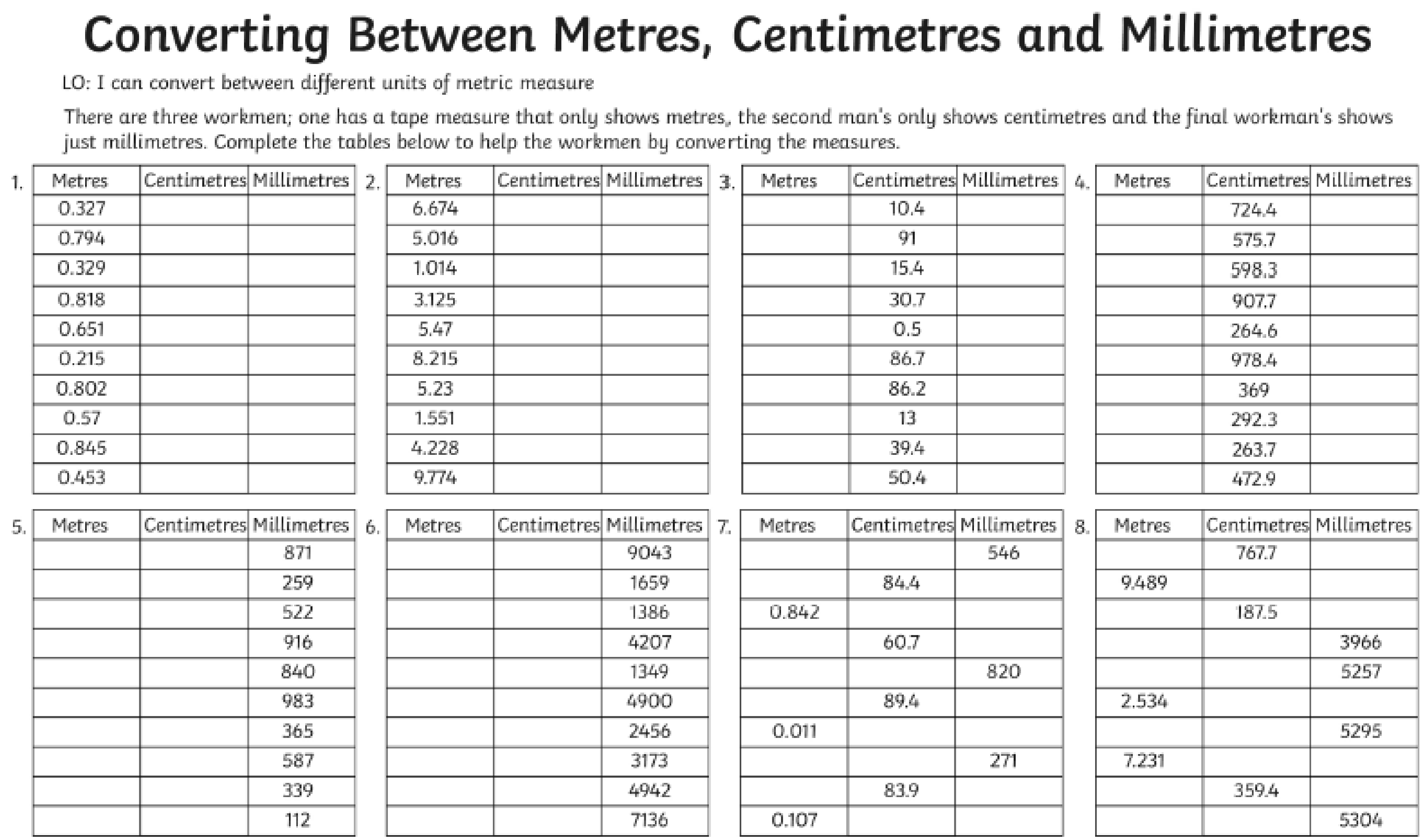
2 Choose three of the mixed numbers below and add them together. Do this five times. The mixed numbers can be used more than once.

$13\frac{8}{6}$ $19\frac{3}{8}$ $12\frac{9}{7}$ $15\frac{11}{14}$ $11\frac{12}{10}$
$16\frac{5}{4}$ $12\frac{10}{9}$ $16\frac{7}{12}$ $15\frac{13}{20}$ $17\frac{7}{5}$

3 Which combinations of mixed numbers in Question 2 did you find easiest to add? Explain why.

Wednesday: Mrs Newland's Set:

Can you practise converting between these units?



Converting Between Metres, Centimetres and Millimetres

LO: I can convert between different units of metric measure

There are three workmen; one has a tape measure that only shows metres, the second man's only shows centimetres and the final workman's shows just millimetres. Complete the tables below to help the workmen by converting the measures.

1.

Metres	Centimetres	Millimetres
0.327		
0.794		
0.329		
0.818		
0.651		
0.215		
0.802		
0.57		
0.845		
0.453		

2.

Metres	Centimetres	Millimetres
6.674		
5.016		
1.014		
3.125		
5.47		
8.215		
5.23		
1.551		
4.228		
9.774		

3.

Metres	Centimetres	Millimetres
	10.4	
	91	
	15.4	
	30.7	
	0.5	
	86.7	
	86.2	
	13	
	39.4	
	50.4	

4.

Metres	Centimetres	Millimetres
	724.4	
	575.7	
	598.3	
	907.7	
	264.6	
	978.4	
	369	
	292.3	
	263.7	
	472.9	

5.

Metres	Centimetres	Millimetres
		871
		259
		522
		916
		840
		983
		365
		587
		339
		112

6.

Metres	Centimetres	Millimetres
		9043
		1659
		1386
		4207
		1349
		4900
		2456
		3173
		4942
		7136

7.

Metres	Centimetres	Millimetres
		546
	84.4	
0.842		
	60.7	
		820
	89.4	
0.011		
		271
	83.9	
0.107		

8.

Metres	Centimetres	Millimetres
	767.7	
9.489		
	187.5	
		3966
		5257
2.534		
		5295
7.231		
	359.4	
		5304

1.

Kilograms	Grams
0.252	
0.633	
0.191	
0.721	
0.725	
0.71	
0.583	
0.595	
0.625	
0.244	

2.

Kilograms	Grams
6.371	
5.079	
3.213	
7.418	
4.402	
5.781	
3.897	
2.446	
5.861	
6.963	

3.

Kilograms	Grams
	266
	69
	231
	985
	867
	333
	967
	620
	459
	371

4.

Kilograms	Grams
	9594
	7865
	7426
	7702
	6916
	1742
	7511
	9753
	3061
	2098

5.

Kilograms	Grams
	819
	236
0.292	
0.448	
	148
0.876	
0.529	
	403
	356
0.2	

6.

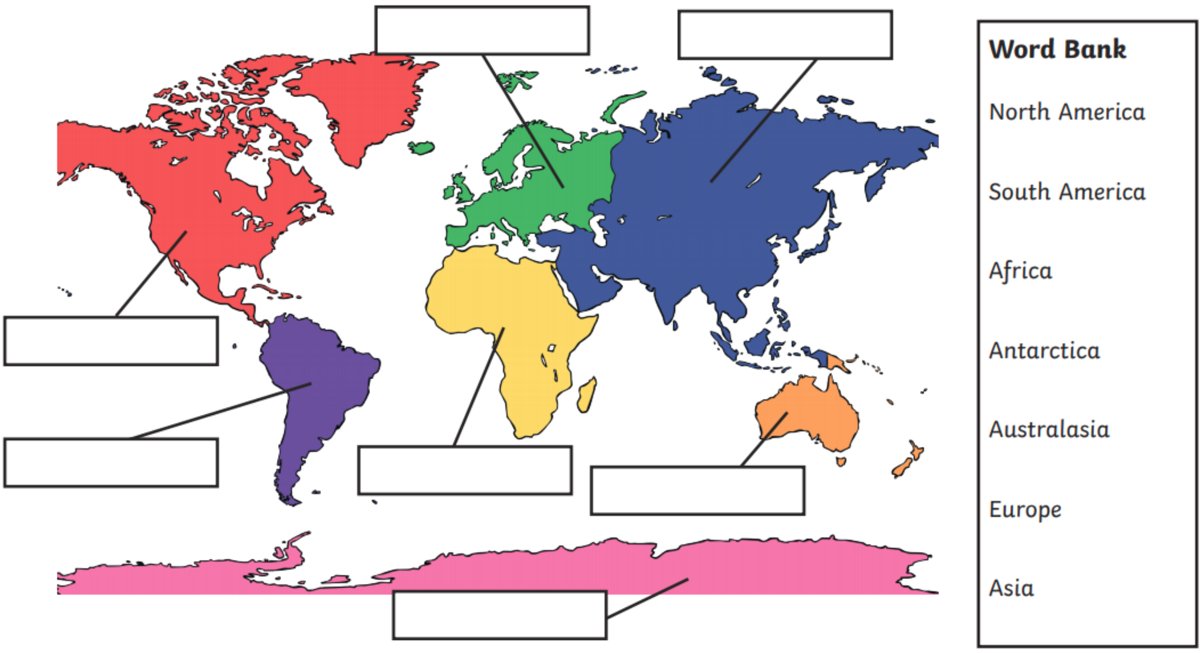
Kilograms	Grams
	3593
7.793	
7.791	
	2718
	3079
1.193	
	3191
2.257	
4.568	
	1722

Geography

L.O. To locate some of the Earth's biomes

Can you remember the continents of the world?

The Seven Continents of the World



Word Bank

North America

South America

Africa

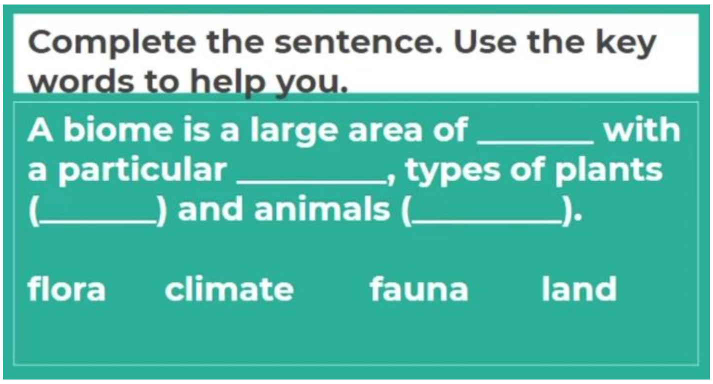
Antarctica

Australasia

Europe

Asia

Biomes



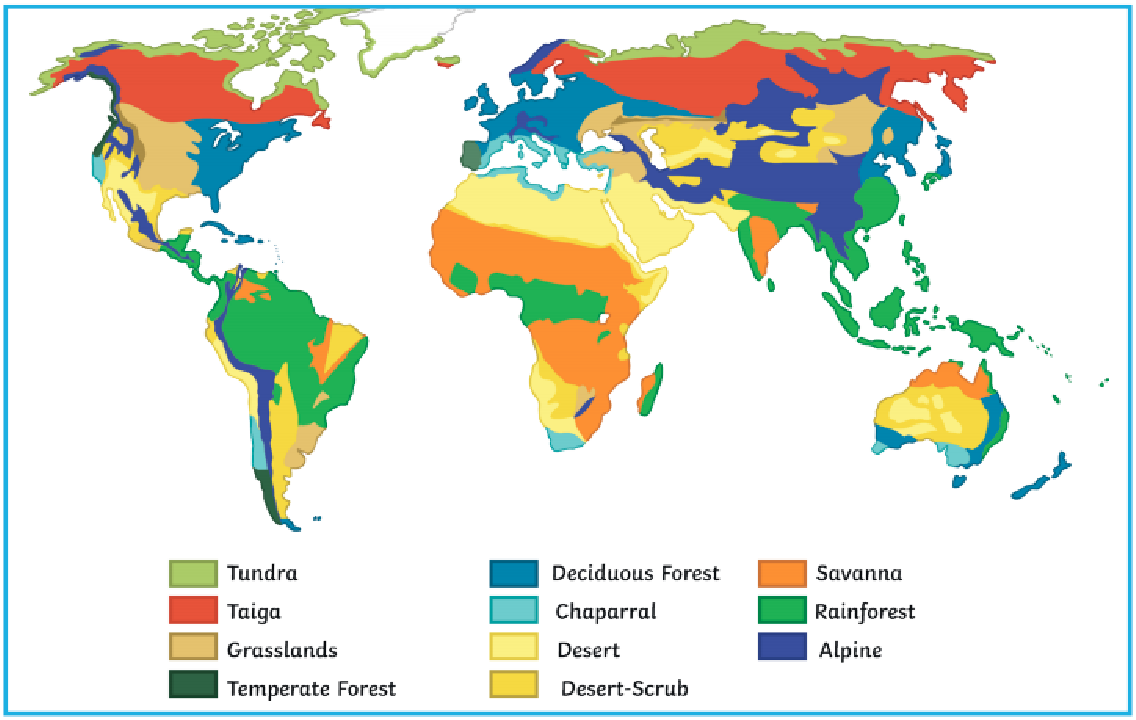
Complete the sentence. Use the key words to help you.

A biome is a large area of _______ with a particular _________, types of plants (_______) and animals (_________).

flora climate fauna land

These are the different biomes of the world

World Biomes


Tundra
Taiga
Grasslands
Temperate Forest
Deciduous Forest
Chaparral
Desert
Desert-Scrub
Savanna
Rainforest
Alpine

Use the map above to help you colour in the biomes on the map below. If you don't have those colours you can use different colours- just make sure you change the key to the colour you are using. If you don't have any colouring pencils, then just label the biome on the map.

Locating Biomes

Aim: I can name and locate geographical regions.

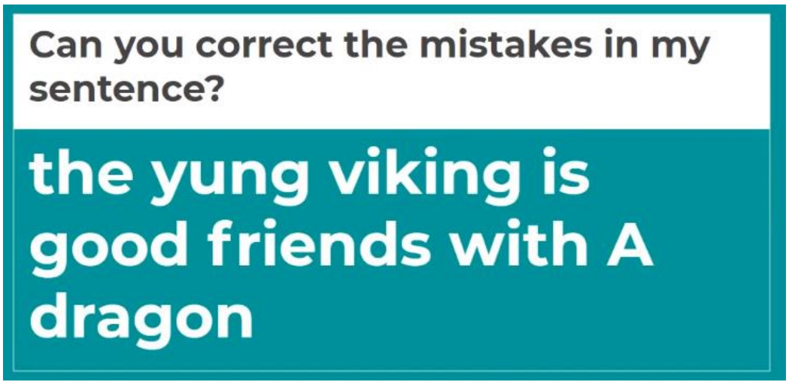
A biome is a community of animals and plants adapted to a particular environment.

Use the colour-coded key to mark the different biomes on the world map.

- 🟥 Tropical Rainforest
- 🟩 Savannah
- 🟦 Tundra
- 🟧 Desert
- 🟪 Temperate Forest

Thursday

English- How to train your dragon lesson 4

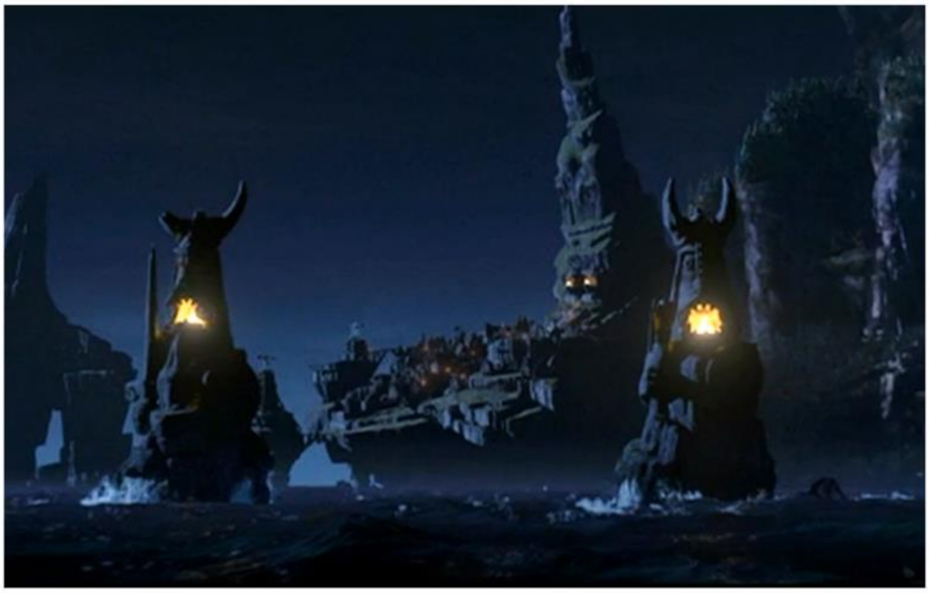


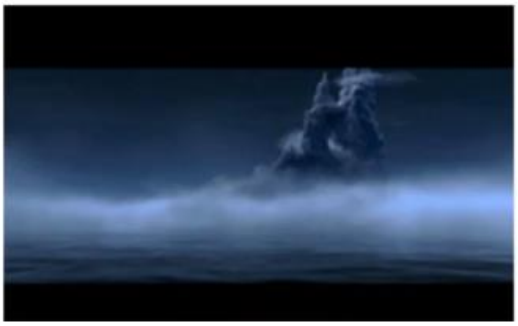
Can you correct the mistakes in my sentence?

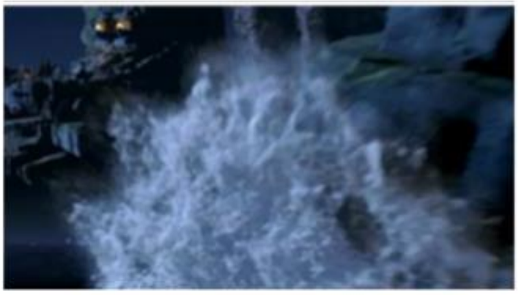
the yung viking is good friends with A dragon

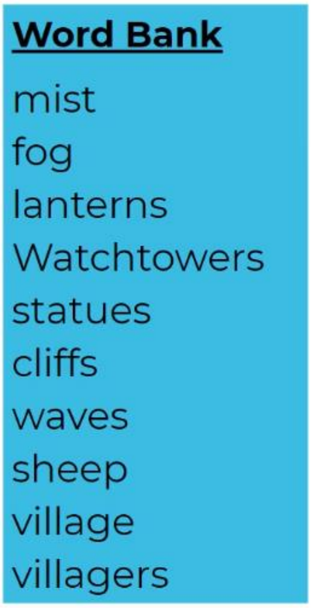
____

Here are some pictures of the setting for the opening of our story:



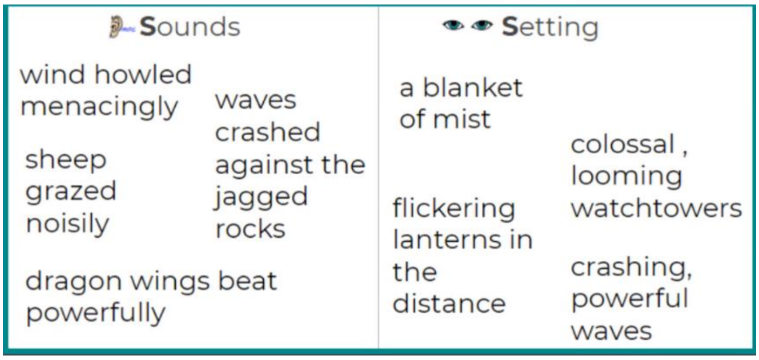






Word Bank

mist
fog
lanterns
Watchtowers
statues
cliffs
waves
sheep
village
villagers



Sounds	**S**etting
wind howled menacingly	a blanket of mist
waves crashed against the jagged rocks	colossal , looming watchtowers
sheep grazed noisily	flickering lanterns in the distance
dragon wings beat powerfully	crashing, powerful waves

Write a short paragraph describing the setting from the picture. If this is too hard you can choose a different setting that you would like to describe.

____

____

____

____

____

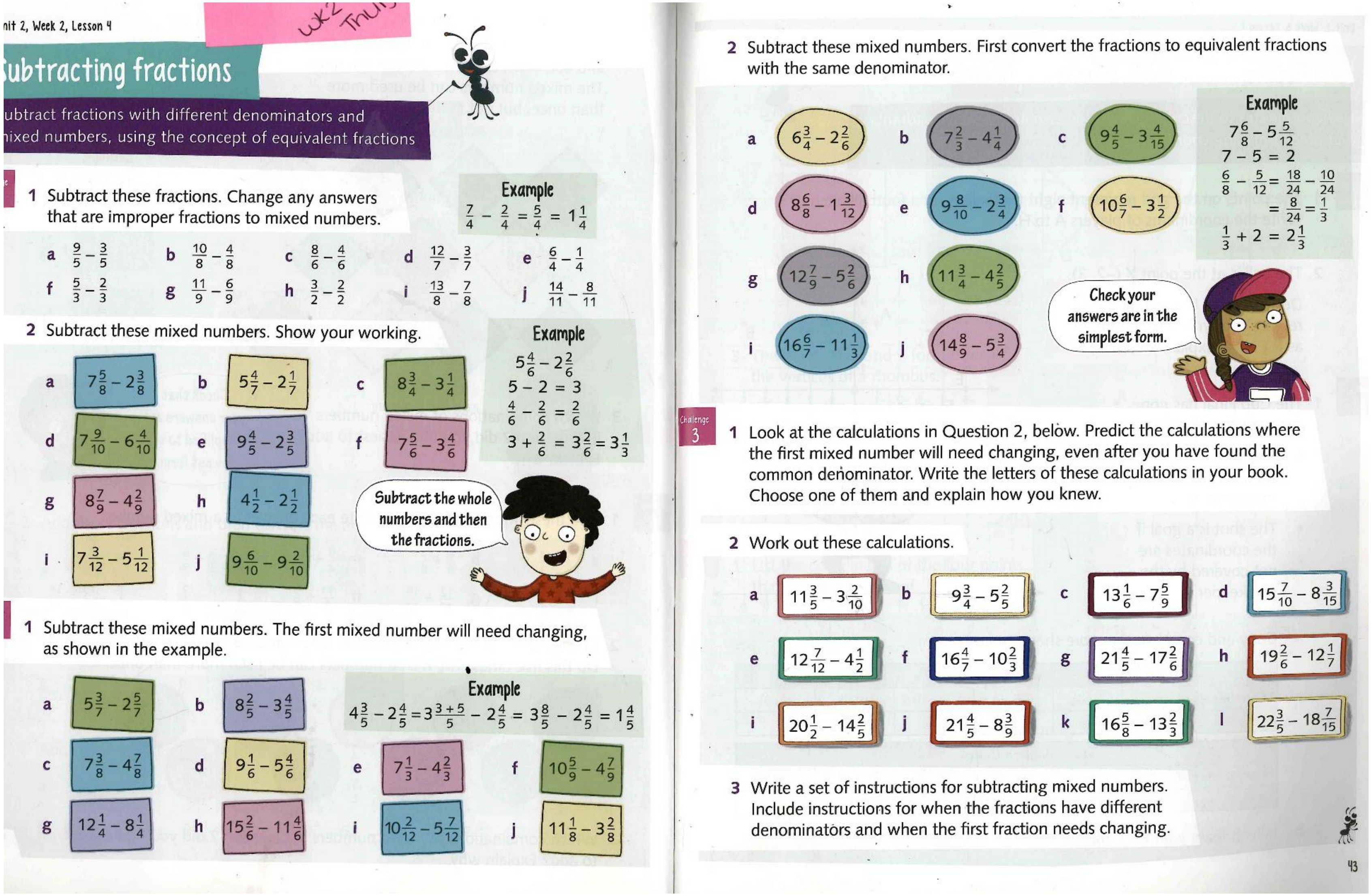
____

____

____

Thursday: Mrs Vorster and Ms Tomlinson's Sets:

Look back at what we did yesterday, when we changed the denominators. Today, we are going to be subtracting with fractions. Some of the questions may have fractions with the same denominator, some may have different denominators and need changing.



nit 2, Week 2, Lesson 4

wk2 Thur

ubtracting fractions

ubtract fractions with different denominators and
nixed numbers, using the concept of equivalent fractions

1 Subtract these fractions. Change any answers that are improper fractions to mixed numbers.

Example

$\frac{7}{4} - \frac{2}{4} = \frac{5}{4} = 1\frac{1}{4}$

- **a** $\frac{9}{5} - \frac{3}{5}$
- **b** $\frac{10}{8} - \frac{4}{8}$
- **c** $\frac{8}{6} - \frac{4}{6}$
- **d** $\frac{12}{7} - \frac{3}{7}$
- **e** $\frac{6}{4} - \frac{1}{4}$
- **f** $\frac{5}{3} - \frac{2}{3}$
- **g** $\frac{11}{9} - \frac{6}{9}$
- **h** $\frac{3}{2} - \frac{2}{2}$
- **i** $\frac{13}{8} - \frac{7}{8}$
- **j** $\frac{14}{11} - \frac{8}{11}$

2 Subtract these mixed numbers. Show your working.

Example

$5\frac{4}{6} - 2\frac{2}{6}$

$5 - 2 = 3$

$\frac{4}{6} - \frac{2}{6} = \frac{2}{6}$

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

- **a** $7\frac{5}{8} - 2\frac{3}{8}$
- **b** $5\frac{4}{7} - 2\frac{1}{7}$
- **c** $8\frac{3}{4} - 3\frac{1}{4}$
- **d** $7\frac{9}{10} - 6\frac{4}{10}$
- **e** $9\frac{4}{5} - 2\frac{3}{5}$
- **f** $7\frac{5}{6} - 3\frac{4}{6}$
- **g** $8\frac{7}{9} - 4\frac{2}{9}$
- **h** $4\frac{1}{2} - 2\frac{1}{2}$
- **i** $7\frac{3}{12} - 5\frac{1}{12}$
- **j** $9\frac{6}{10} - 9\frac{2}{10}$

Subtract the whole numbers and then the fractions.

1 Subtract these mixed numbers. The first mixed number will need changing, as shown in the example.

Example

$4\frac{3}{5} - 2\frac{4}{5} = 3\frac{3+5}{5} - 2\frac{4}{5} = 3\frac{8}{5} - 2\frac{4}{5} = 1\frac{4}{5}$

- **a** $5\frac{3}{7} - 2\frac{5}{7}$
- **b** $8\frac{2}{5} - 3\frac{4}{5}$
- **c** $7\frac{3}{8} - 4\frac{7}{8}$
- **d** $9\frac{1}{6} - 5\frac{4}{6}$
- **e** $7\frac{1}{3} - 4\frac{2}{3}$
- **f** $10\frac{5}{9} - 4\frac{7}{9}$
- **g** $12\frac{1}{4} - 8\frac{1}{4}$
- **h** $15\frac{2}{6} - 11\frac{4}{6}$
- **i** $10\frac{2}{12} - 5\frac{7}{12}$
- **j** $11\frac{1}{8} - 3\frac{2}{8}$

2 Subtract these mixed numbers. First convert the fractions to equivalent fractions with the same denominator.

Example

$7\frac{6}{8} - 5\frac{5}{12}$

$7 - 5 = 2$

$\frac{6}{8} - \frac{5}{12} = \frac{18}{24} - \frac{10}{24}$

$= \frac{8}{24} = \frac{1}{3}$

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

- **a** $6\frac{3}{4} - 2\frac{2}{6}$
- **b** $7\frac{2}{3} - 4\frac{1}{4}$
- **c** $9\frac{4}{5} - 3\frac{4}{15}$
- **d** $8\frac{6}{8} - 1\frac{3}{12}$
- **e** $9\frac{8}{10} - 2\frac{3}{4}$
- **f** $10\frac{6}{7} - 3\frac{1}{2}$
- **g** $12\frac{7}{9} - 5\frac{2}{6}$
- **h** $11\frac{3}{4} - 4\frac{2}{5}$
- **i** $16\frac{6}{7} - 11\frac{1}{3}$
- **j** $14\frac{8}{9} - 5\frac{3}{4}$

Check your answers are in the simplest form.

Challenge 3

1 Look at the calculations in Question 2, below. Predict the calculations where the first mixed number will need changing, even after you have found the common denominator. Write the letters of these calculations in your book. Choose one of them and explain how you knew.

2 Work out these calculations.

- **a** $11\frac{3}{5} - 3\frac{2}{10}$
- **b** $9\frac{3}{4} - 5\frac{2}{5}$
- **c** $13\frac{1}{6} - 7\frac{5}{9}$
- **d** $15\frac{7}{10} - 8\frac{3}{15}$
- **e** $12\frac{7}{12} - 4\frac{1}{2}$
- **f** $16\frac{4}{7} - 10\frac{2}{3}$
- **g** $21\frac{4}{5} - 17\frac{2}{6}$
- **h** $19\frac{2}{6} - 12\frac{1}{7}$
- **i** $20\frac{1}{2} - 14\frac{2}{5}$
- **j** $21\frac{4}{5} - 8\frac{3}{9}$
- **k** $16\frac{5}{8} - 13\frac{2}{3}$
- **l** $22\frac{3}{5} - 18\frac{7}{15}$

3 Write a set of instructions for subtracting mixed numbers. Include instructions for when the fractions have different denominators and when the first fraction needs changing.

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Thursday: Mrs Newland's Set

Solve Problems Involving the Calculation of Units of Measure

Challenge Cards

Solve Problems Involving the Calculation of Units of Measure

1. A joiner needs 12 lengths of wood measuring 245mm and 6 pieces measuring 582mm. The wood is sold in lengths of 3m.

Calculate how many lengths of wood are needed, and how best to cut the lengths so the longest piece is left over.

Solve Problems Involving the Calculation of Units of Measure

2. A tin contains 425g baked beans in sauce. The tin itself weighs 60g.

How much will a pack of 6 tins weigh in kilograms?

twinkl
BEANS
LOWER SALT AND SUGAR
Premium

Solve Problems Involving the Calculation of Units of Measure

3. A box of 12 tins of condensed soup weighs 4.02kg. The tin itself weighs 40g.

How much does the soup in each tin weigh in grams?

TOMATO
SOUP

Solve Problems Involving the Calculation of Units of Measure

4. A supermarket sells branded mineral water in a pack of 8 × 500ml for £1.99 and its own brand mineral water in packs of 6 × 500ml for £1.40.

Explain why the own brand is cheaper per bottle.

Solve Problems Involving the Calculation of Units of Measure

5. One brand of cola – CoFizz- is sold in packs of 4 x 500ml for £2.50. Another brand – Colo - is sold in packs of 10 × 330ml for £2.

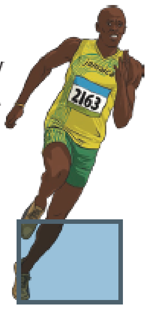
Which brand is more expensive per litre?

Solve Problems Involving the Calculation of Units of Measure

6. Bags of penny sweets cost £1 per 120g. How much will it cost Sam if he buys 0.660kg of sweets?

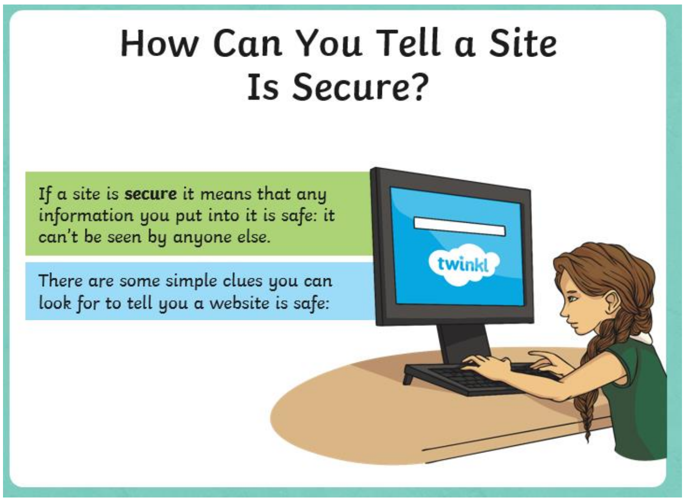
Solve Problems Involving the Calculation of Units of Measure

7. A long distance runner usually runs 30km in 5 hours. If he runs at an even pace throughout, how many metres should he have run after 75 minutes?



Could you create your own word problem based on measure?

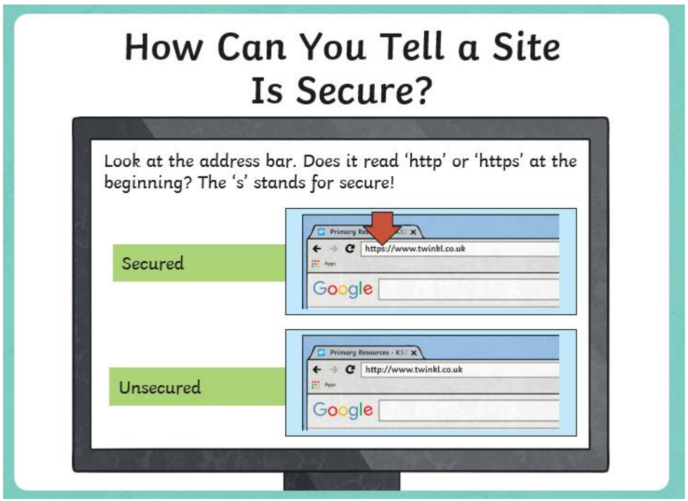
Computing



How Can You Tell a Site Is Secure?

If a site is **secure** it means that any information you put into it is safe: it can't be seen by anyone else.

There are some simple clues you can look for to tell you a website is safe:



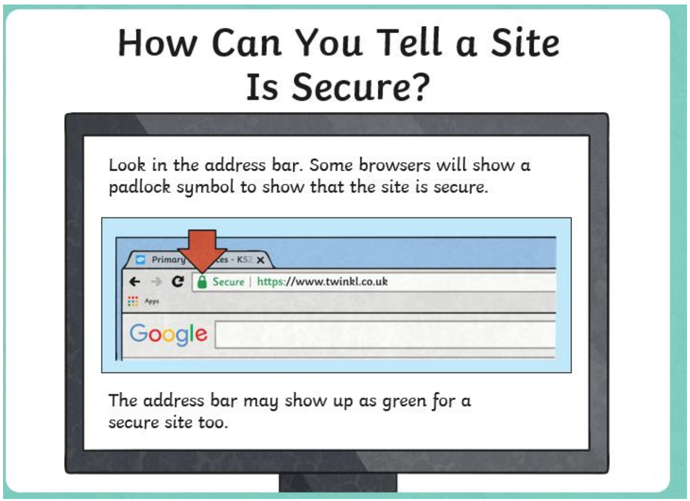
How Can You Tell a Site Is Secure?

Look at the address bar. Does it read 'http' or 'https' at the beginning? The 's' stands for secure!

Secured

Unsecured

Primary Resources - KS2
https://www.twinkl.co.uk
Apps
Google
Primary Resources - KS2
http://www.twinkl.co.uk
Apps
Google

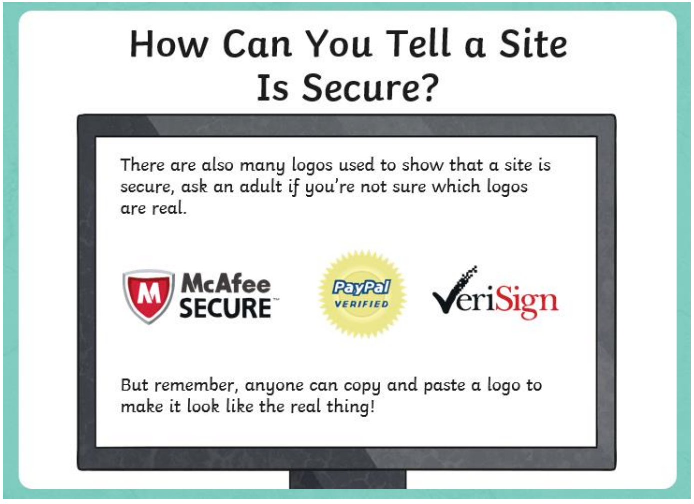


How Can You Tell a Site Is Secure?

Look in the address bar. Some browsers will show a padlock symbol to show that the site is secure.

The address bar may show up as green for a secure site too.

Primary Resources - KS2
Secure | https://www.twinkl.co.uk
Apps
Google

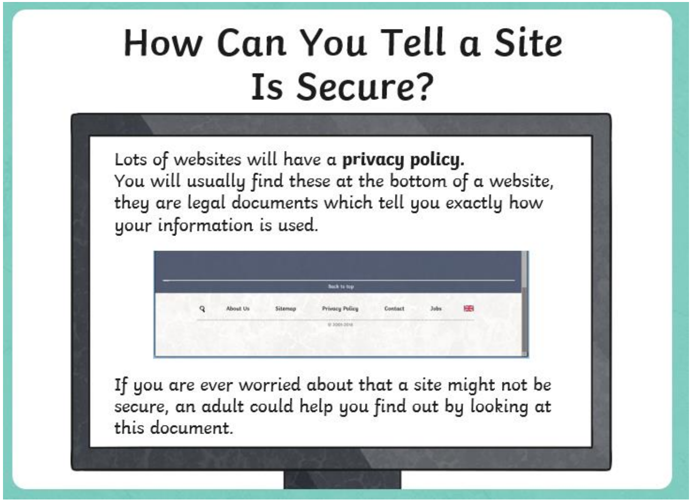


How Can You Tell a Site Is Secure?

There are also many logos used to show that a site is secure, ask an adult if you're not sure which logos are real.

But remember, anyone can copy and paste a logo to make it look like the real thing!

McAfee SECURE
PayPal VERIFIED
VeriSign



How Can You Tell a Site Is Secure?

Lots of websites will have a **privacy policy.** You will usually find these at the bottom of a website, they are legal documents which tell you exactly how your information is used.

If you are ever worried about that a site might not be secure, an adult could help you find out by looking at this document.

Back to top
About Us
Sitemap
Privacy Policy
Contact
Jobs
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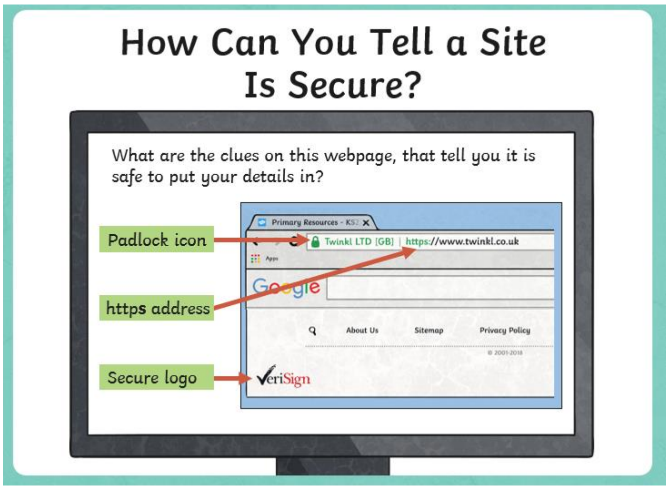

How Can You Tell a Site Is Secure?

What are the clues on this webpage, that tell you it is safe to put your details in?

Padlock icon

https address

Secure logo

Primary Resources - KS2
Twinkl LTD [GB] | https://www.twinkl.co.uk
Apps
Google
About Us
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VeriSign

Using the information above, write and explanation for a young person that explains how they would know if their information is secure online.

Friday

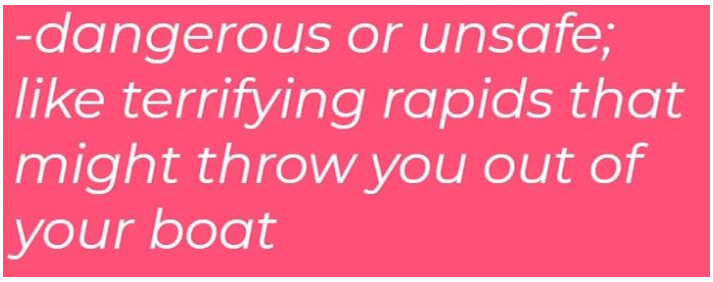
English- How to train your dragon lesson 5

What might you find in the water?

What things might you find in the water? Come up with at least 5 different ideas and write them in the box below:

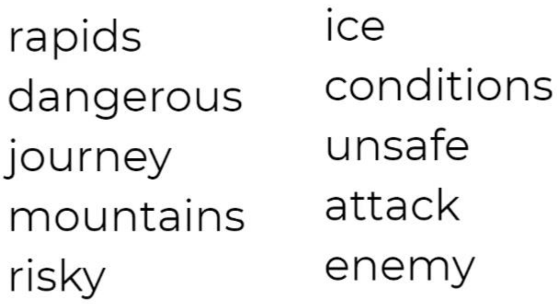
Water Words

Treacherous:



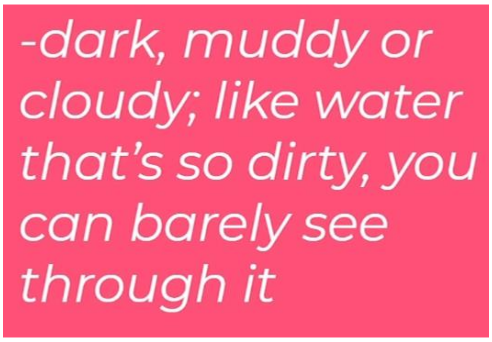
-dangerous or unsafe; like terrifying rapids that might throw you out of your boat

Which of these words are synonyms of the word treacherous? Remember synonym means the same as. Tick the words that you think are synonyms:



rapids
dangerous
journey
mountains
risky
ice
conditions
unsafe
attack
enemy

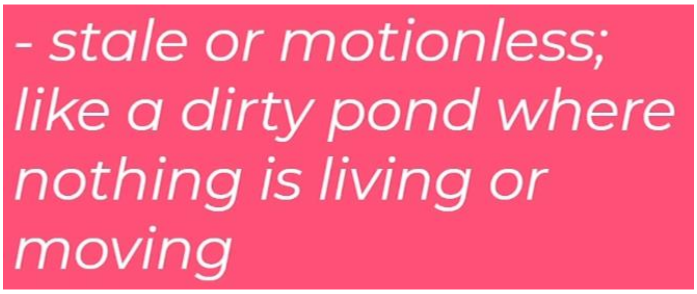
Murky:


-dark, muddy or cloudy; like water that's so dirty, you can barely see through it

Which of these words are synonyms of the word murky? Remember synonym means the same as. Tick the words that you think are synonyms:

dark
water
past
depths
pond
atmosphere
swamp
muddy
darkness
cloudy
gloom
sky

Stagnant:


- stale or motionless; like a dirty pond where nothing is living or moving

Which of these words are synonyms of the word stagnant? Remember synonym means the same as. Tick the words that you think are synonyms:

pond
water
sewer
lifeless
foul
swamp
air
marsh
stale

Fill in the missing word:

After locating its prey in the ______________ depths of the pitch-black ocean, the anglerfish attacks.

This ferocious predator finds its prey in the still, __________ shallows of the ocean.

The _________ waters of the deep make this creature hard to see.

treacherous **murky** **stagnant**

Now have a go at writing your own sentences using the words treacherous, murky and stagnant:

Treacherous: ____

____

____

____

Murky: ____

____

____

____

Stagnant: ____

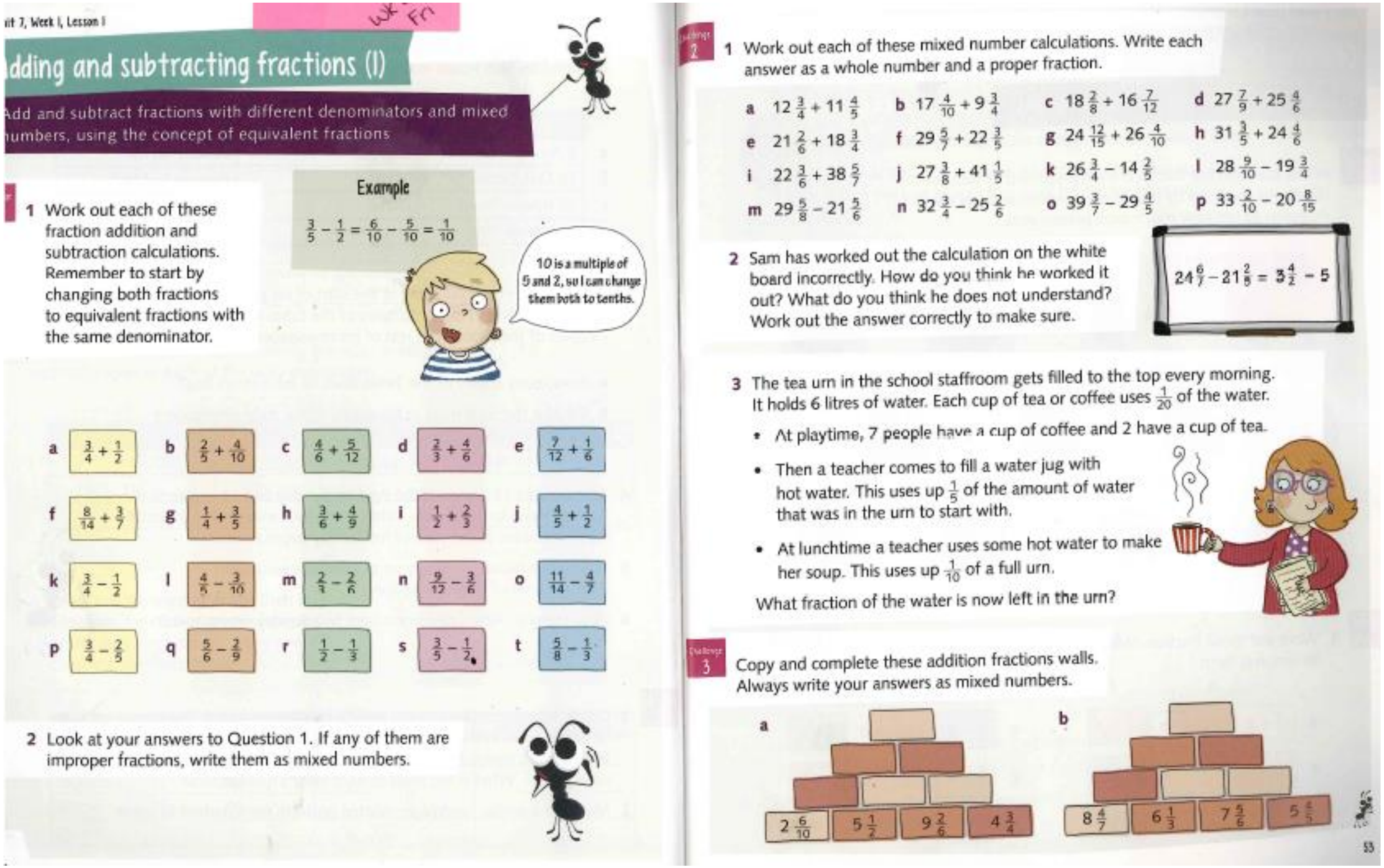
____

____

____

Friday: Mrs Vorster and Ms Tomlinson's Sets:

Today you are going to practise adding and subtracting fractions.



Wk Fri

dding and subtracting fractions (1)

dd and subtract fractions with different denominators and mixed umbers, using the concept of equivalent fractions

Example

$\frac{3}{5} - \frac{1}{2} = \frac{6}{10} - \frac{5}{10} = \frac{1}{10}$

1 Work out each of these fraction addition and subtraction calculations. Remember to start by changing both fractions to equivalent fractions with the same denominator.

10 is a multiple of 5 and 2, so I can change them both to tenths.

a $\frac{3}{4} + \frac{1}{2}$ **b** $\frac{2}{5} + \frac{4}{10}$ **c** $\frac{4}{6} + \frac{5}{12}$ **d** $\frac{2}{3} + \frac{4}{6}$ **e** $\frac{7}{12} + \frac{1}{6}$

f $\frac{8}{14} + \frac{3}{7}$ **g** $\frac{1}{4} + \frac{3}{5}$ **h** $\frac{3}{6} + \frac{4}{9}$ **i** $\frac{1}{2} + \frac{2}{3}$ **j** $\frac{4}{5} + \frac{1}{2}$

k $\frac{3}{4} - \frac{1}{2}$ **l** $\frac{4}{5} - \frac{3}{10}$ **m** $\frac{2}{3} - \frac{2}{6}$ **n** $\frac{9}{12} - \frac{3}{6}$ **o** $\frac{11}{14} - \frac{4}{7}$

p $\frac{3}{4} - \frac{2}{5}$ **q** $\frac{5}{6} - \frac{2}{9}$ **r** $\frac{1}{2} - \frac{1}{3}$ **s** $\frac{3}{5} - \frac{1}{2}$ **t** $\frac{5}{8} - \frac{1}{3}$

2 Look at your answers to Question 1. If any of them are improper fractions, write them as mixed numbers.

Challenge 2

1 Work out each of these mixed number calculations. Write each answer as a whole number and a proper fraction.

a $12\frac{3}{4} + 11\frac{4}{5}$ **b** $17\frac{4}{10} + 9\frac{3}{4}$ **c** $18\frac{2}{8} + 16\frac{7}{12}$ **d** $27\frac{7}{9} + 25\frac{4}{6}$

e $21\frac{2}{6} + 18\frac{3}{4}$ **f** $29\frac{5}{7} + 22\frac{3}{5}$ **g** $24\frac{12}{15} + 26\frac{4}{10}$ **h** $31\frac{3}{5} + 24\frac{4}{6}$

i $22\frac{3}{6} + 38\frac{5}{7}$ **j** $27\frac{3}{8} + 41\frac{1}{5}$ **k** $26\frac{3}{4} - 14\frac{2}{5}$ **l** $28\frac{9}{10} - 19\frac{3}{4}$

m $29\frac{5}{8} - 21\frac{5}{6}$ **n** $32\frac{3}{4} - 25\frac{2}{6}$ **o** $39\frac{3}{7} - 29\frac{4}{5}$ **p** $33\frac{2}{10} - 20\frac{8}{15}$

2 Sam has worked out the calculation on the white board incorrectly. How do you think he worked it out? What do you think he does not understand? Work out the answer correctly to make sure.

$24\frac{6}{7} - 21\frac{2}{5} = 3\frac{4}{2} - 5$

3 The tea urn in the school staffroom gets filled to the top every morning. It holds 6 litres of water. Each cup of tea or coffee uses $\frac{1}{20}$ of the water.

- At playtime, 7 people have a cup of coffee and 2 have a cup of tea.
- Then a teacher comes to fill a water jug with hot water. This uses up $\frac{1}{5}$ of the amount of water that was in the urn to start with.
- At lunchtime a teacher uses some hot water to make her soup. This uses up $\frac{1}{10}$ of a full urn.

What fraction of the water is now left in the urn?

Challenge 3

Copy and complete these addition fractions walls. Always write your answers as mixed numbers.

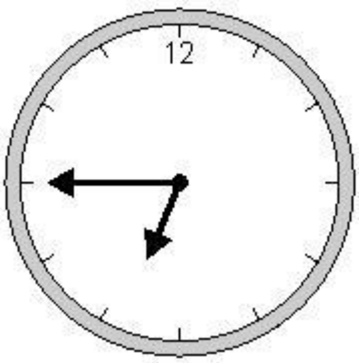
a $2\frac{6}{10}$ $5\frac{1}{2}$ $9\frac{2}{6}$ $4\frac{3}{4}$

b $8\frac{4}{7}$ $6\frac{1}{3}$ $7\frac{5}{6}$ $5\frac{4}{5}$

Friday: Mrs Newland’s Set:

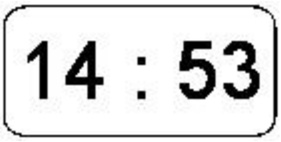
Q1.

Here is a clock.



How many minutes is it **until** this clock shows 7:30?

Here is another clock.



What time will the clock show in 20 minutes?

Q2.

Annie finishes school at ten past 3 in the afternoon.
Circle the 24 hour clock that shows ten past 3 in the afternoon.

03:10 10:03 13:10

15:10 10:15

Q3.

This table shows when flights take off at an airport.

Flight number	Destination	Take-off time ✈
AX40	Paris	13:35
BH253	Berlin	14:05
CG008	Rome	15:25
DP369	Paris	15:40
EZ44	Lisbon	16:15
FJ994	Dublin	17:25

How many flights take off between 3pm and 5pm?
How much later does the second flight to Paris take off than the first?
The flight to Dublin takes 50 minutes.
What time does it arrive in Dublin?

Q4.

Here are the sunrise and sunset times for some days in July.

Date	Sunrise	Sunset
7th	04:53	21:18
14th	05:00	21:12
21st	05:09	21:05
28th	05:18	20:55

How many minutes earlier is the **sunset** on 28th July than on 7th July?

Q5.

Here is part of a train timetable.

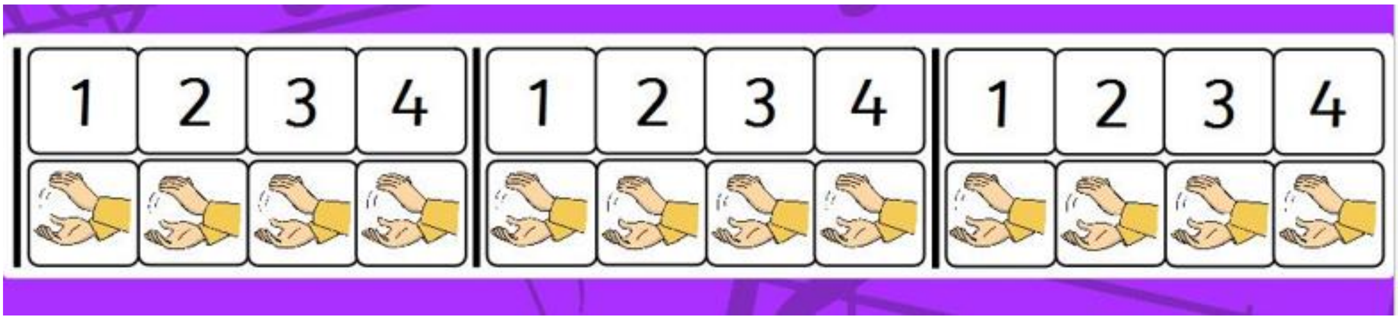
Edinburgh	–	09.35	–	–	13.35	–	–
Glasgow	09.15	–	11.15	13.15	–	13.45	15.15
Stirling	09.57	–	11.57	13.57	–	14.29	15.57
Perth	10.34	10.51	12.34	14.34	14.50	15.15	16.35
Inverness	–	13.10	–	–	17.05	–	–

How long does the first train from Edinburgh take to travel to Inverness?
Ellen is at Glasgow station at 1.30 pm.
She wants to travel to Perth.
She catches the next train.
At what time will she arrive in Perth?

Music

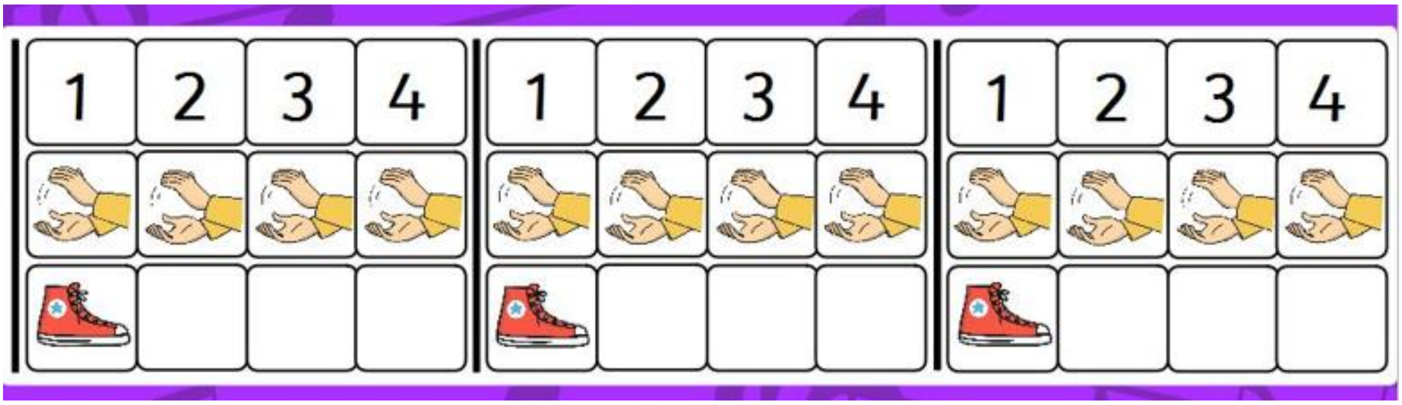
Exploring
Rhythm
and Pulse

Can you keep a steady beat?



1	2	3	4	1	2	3	4	1	2	3	4
👏	👏	👏	👏	👏	👏	👏	👏	👏	👏	👏	👏

Can you add a stamp to beat 1?



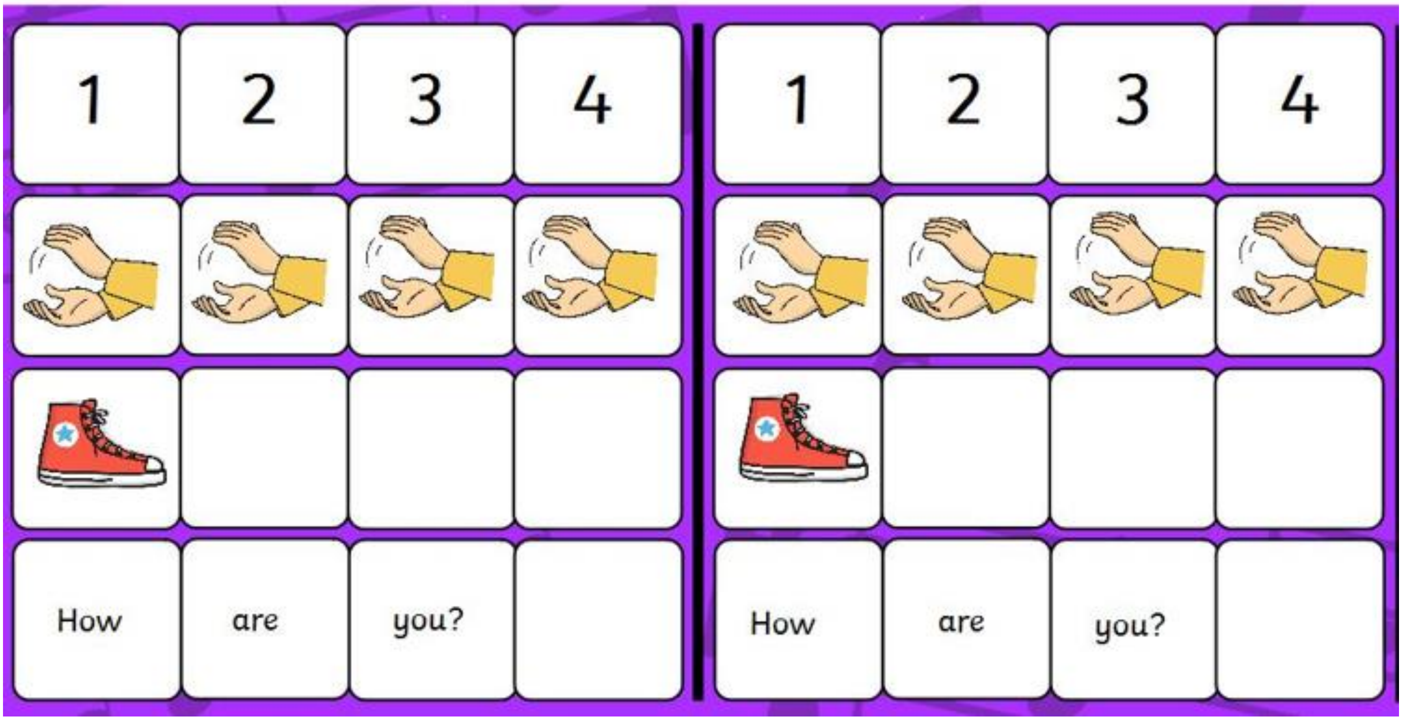
1	2	3	4	1	2	3	4	1	2	3	4
👏	👏	👏	👏	👏	👏	👏	👏	👏	👏	👏	👏
👟				👟				👟			

Speech Patterns

Everything we say is rhythmical.

"How are you?"

Can you say this along with the steady beat?



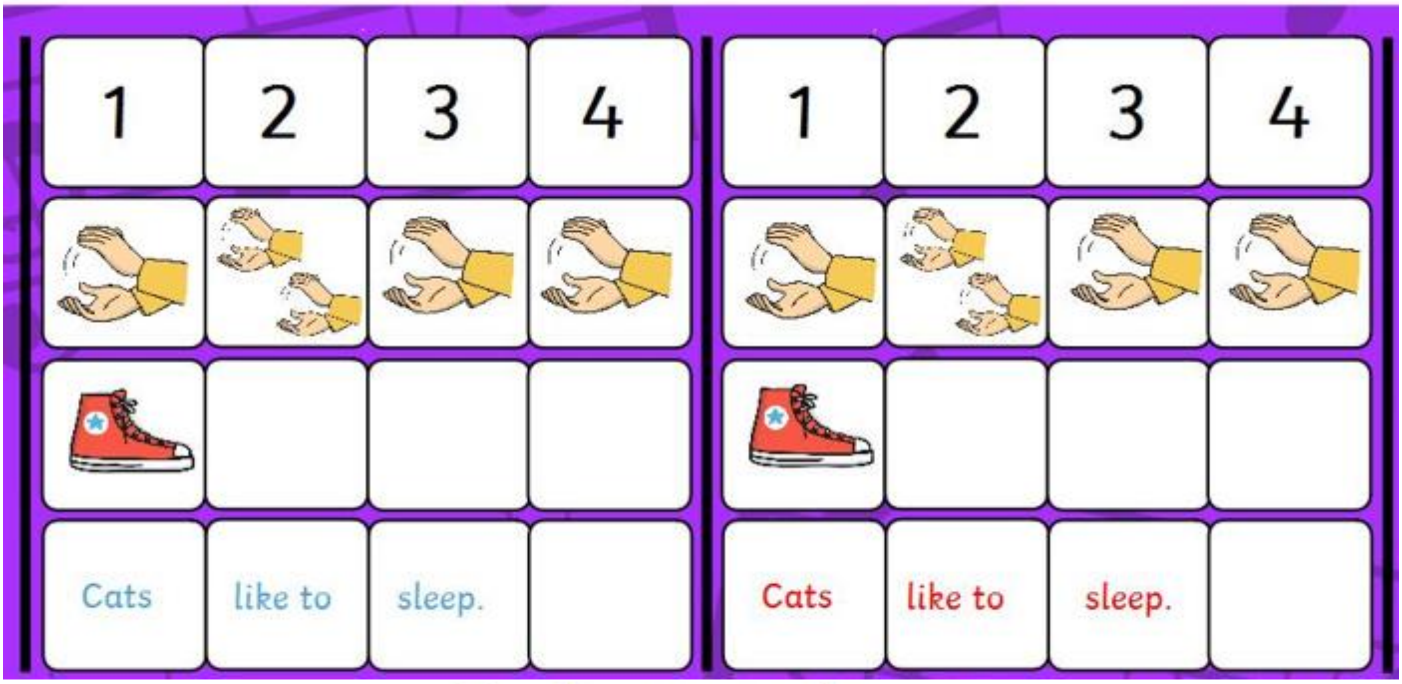
1	2	3	4	1	2	3	4
👏	👏	👏	👏	👏	👏	👏	👏
👟				👟			
How	are	you?		How	are	you?	

Do You Have Something To Say?

Keep the pulse going.

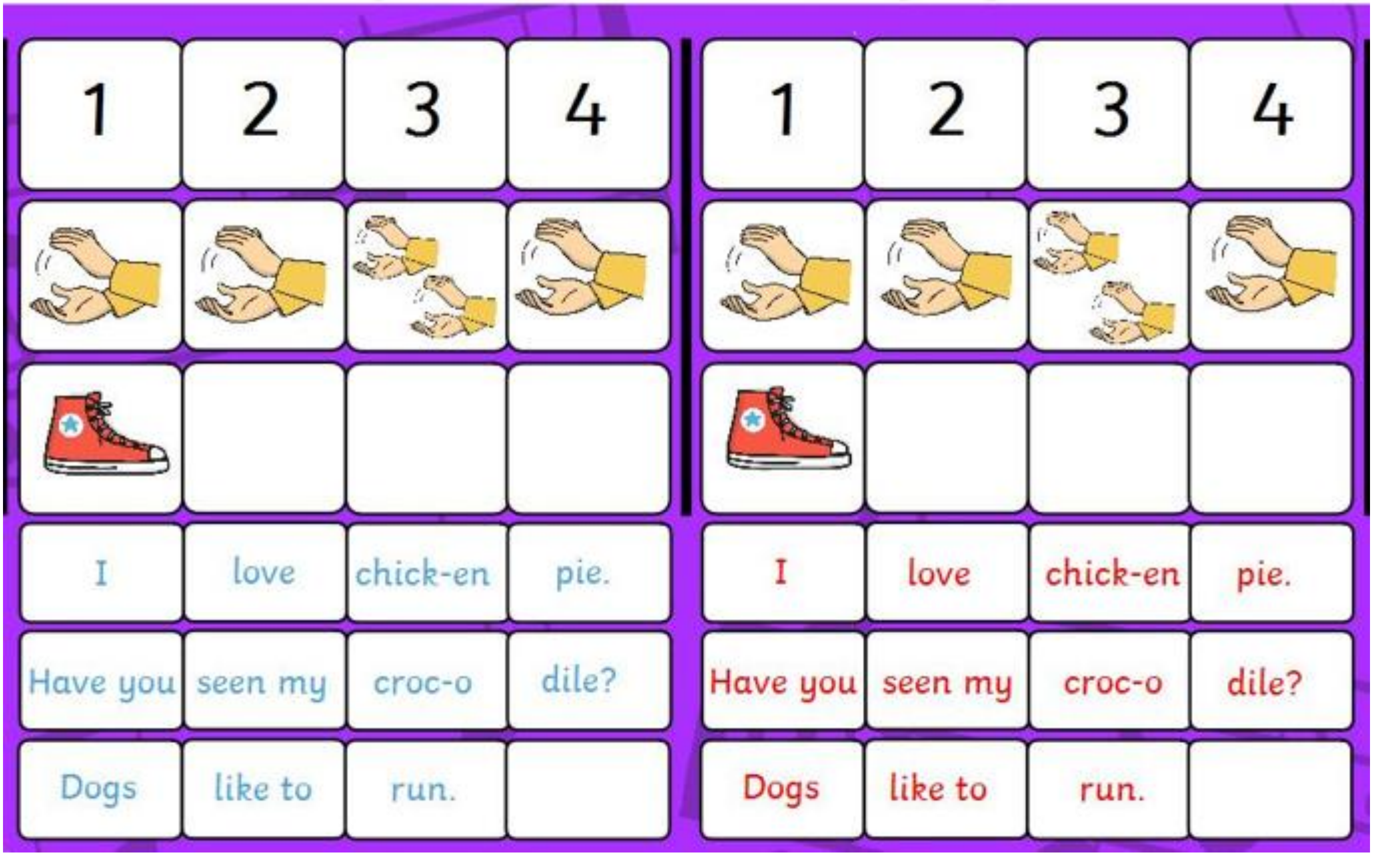
One person chants a phrase, everyone echos.

This is called a 'call' and 'response'.



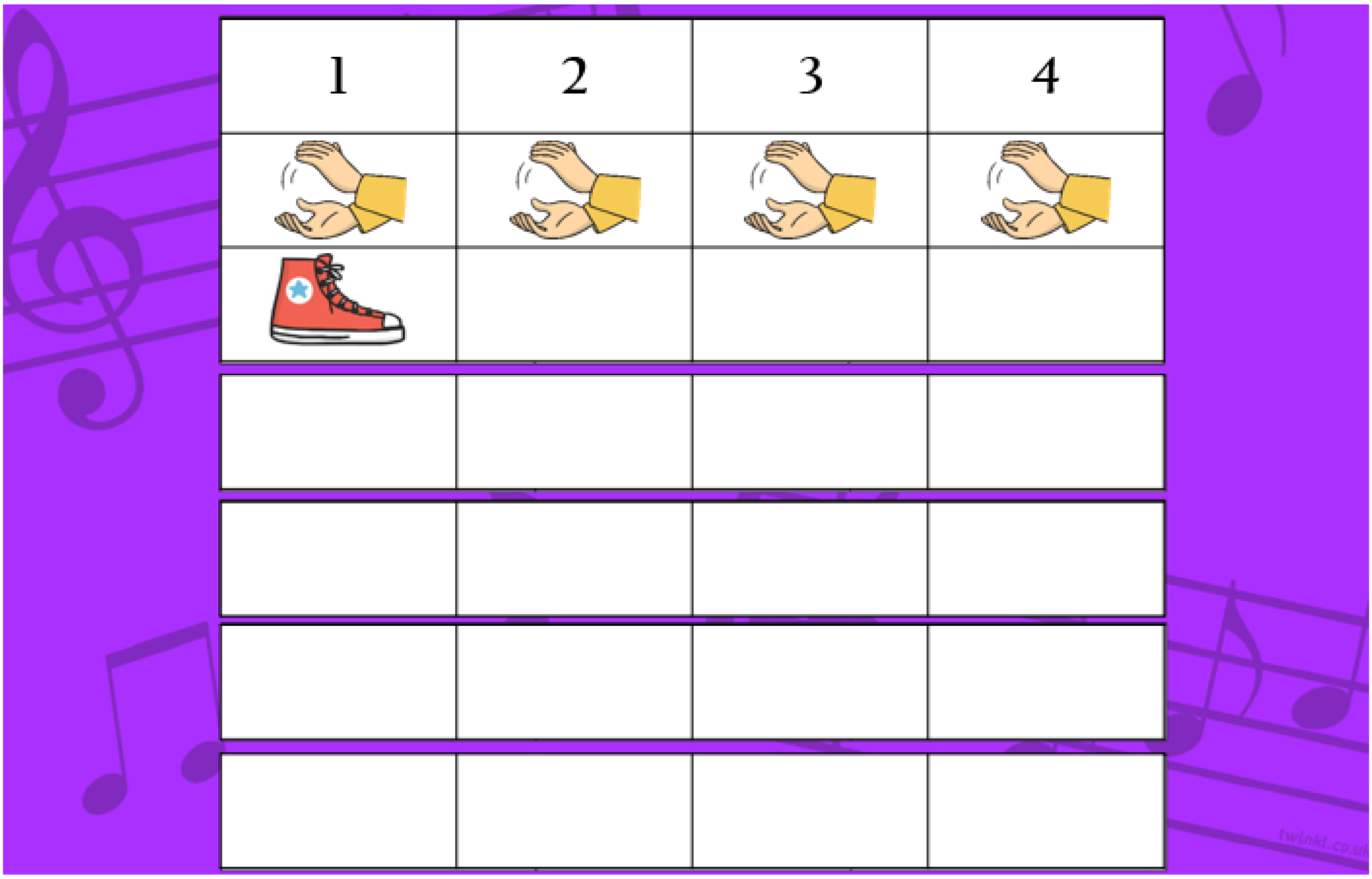
1	2	3	4	1	2	3	4
Cats	like to	sleep.		Cats	like to	sleep.	

Try these examples.
The first one has been done for you.



1	2	3	4	1	2	3	4
I	love	chick-en	pie.	I	love	chick-en	pie.
Have you	seen my	croc-o	dile?	Have you	seen my	croc-o	dile?
Dogs	like to	run.		Dogs	like to	run.	

Choose 4 phrases of your own that have different rhythm patterns. They don't have to make sense! Practise with different people being the caller, and all responding.

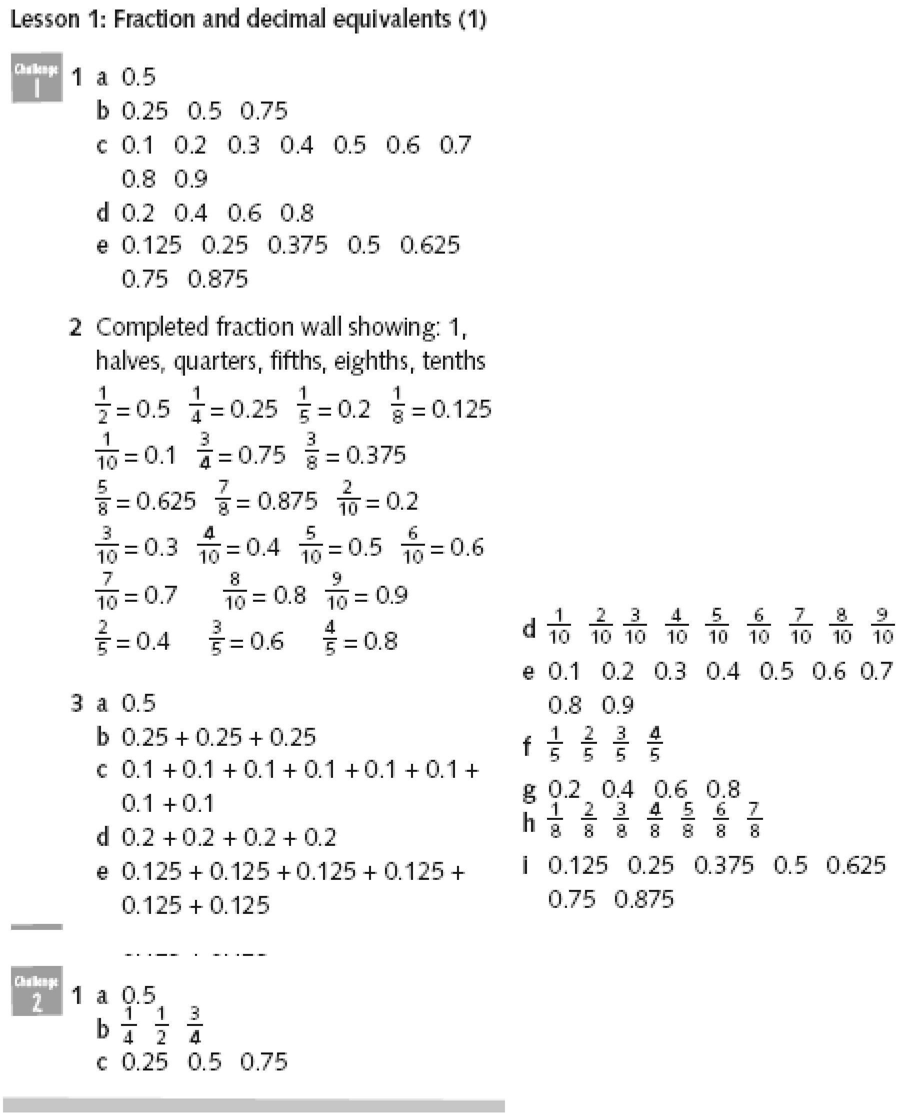


Answers:

Monday

English

Dragon	Noun
Flew	Verb
Carefully	Adverb
Village	Noun
Anxiously	Adverb
Brave	Adjective
Remote	Adjective
Ran	Verb



Lesson 1: Fraction and decimal equivalents (1)

Challenge 1

1 a 0.5
b 0.25 0.5 0.75
c 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9
d 0.2 0.4 0.6 0.8
e 0.125 0.25 0.375 0.5 0.625 0.75 0.875

2 Completed fraction wall showing: 1, halves, quarters, fifths, eighths, tenths

$\frac{1}{2} = 0.5$ $\frac{1}{4} = 0.25$ $\frac{1}{5} = 0.2$ $\frac{1}{8} = 0.125$
$\frac{1}{10} = 0.1$ $\frac{3}{4} = 0.75$ $\frac{3}{8} = 0.375$
$\frac{5}{8} = 0.625$ $\frac{7}{8} = 0.875$ $\frac{2}{10} = 0.2$
$\frac{3}{10} = 0.3$ $\frac{4}{10} = 0.4$ $\frac{5}{10} = 0.5$ $\frac{6}{10} = 0.6$
$\frac{7}{10} = 0.7$ $\frac{8}{10} = 0.8$ $\frac{9}{10} = 0.9$
$\frac{2}{5} = 0.4$ $\frac{3}{5} = 0.6$ $\frac{4}{5} = 0.8$

3 a 0.5
b 0.25 + 0.25 + 0.25
c 0.1 + 0.1 + 0.1 + 0.1 + 0.1 + 0.1 + 0.1 + 0.1
d 0.2 + 0.2 + 0.2 + 0.2
e 0.125 + 0.125 + 0.125 + 0.125 + 0.125 + 0.125

Challenge 2

1 a 0.5
b $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$
c 0.25 0.5 0.75
d $\frac{1}{10}$ $\frac{2}{10}$ $\frac{3}{10}$ $\frac{4}{10}$ $\frac{5}{10}$ $\frac{6}{10}$ $\frac{7}{10}$ $\frac{8}{10}$ $\frac{9}{10}$
e 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9
f $\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{4}{5}$
g 0.2 0.4 0.6 0.8
h $\frac{1}{8}$ $\frac{2}{8}$ $\frac{3}{8}$ $\frac{4}{8}$ $\frac{5}{8}$ $\frac{6}{8}$ $\frac{7}{8}$
i 0.125 0.25 0.375 0.5 0.625 0.75 0.875

Lesson 1: Perimeter and area

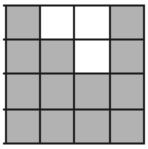
Challenge 1

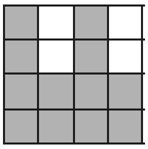
A P = 12 cm, A = 9 cm^2
B P = 12 cm, A = 8 cm^2
C P = 12 cm, A = 6 cm^2
D P = 12 cm, A = 7 cm^2
E P = 12 cm, A = 8 cm^2

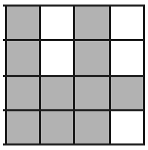
Challenge 2

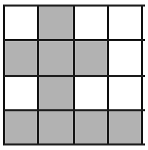
1 **A** P = 20 cm, A = 10 cm^2
B P = 20 cm, A = 11 cm^2
C P = 20 cm, A = 11 cm^2
D P = 20 cm, A = 10 cm^2

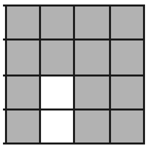
2 Some possible answers

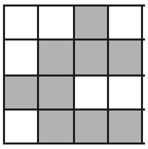

Area = 13 cm^2


Area = 12 cm^2


Area = 11 cm^2


Area = 9 cm^2


Area = 14 cm^2


Area = 9 cm^2

3 a P = 28 m, A = 24 m^2
b P = 22 m, A = 24 m^2
c P = 20 m, A = 24 m^2

4 60 m × 1 m P = 122 m, A = 60 m^2
30 m × 2 m P = 64 m, A = 60 m^2
20 m × 3 m P = 46 m, A = 60 m^2
15 m × 4 m P = 38 m, A = 60 m^2
12 m × 5 m P = 34 m, A = 60 m^2
10 m × 6 m P = 32 m, A = 60 m^2

4 60 m × 1 m P = 122 m, A = 60 m^2
30 m × 2 m P = 64 m, A = 60 m^2
20 m × 3 m P = 46 m, A = 60 m^2
15 m × 4 m P = 38 m, A = 60 m^2
12 m × 5 m P = 34 m, A = 60 m^2
10 m × 6 m P = 32 m, A = 60 m^2

1 a 19 m × 1 m P = 40 cm, A = 19 m^2
18 m × 2 m P = 40 cm, A = 36 m^2
17 m × 3 m P = 40 cm, A = 51 m^2
16 m × 4 m P = 40 cm, A = 64 m^2
15 m × 5 m P = 40 cm, A = 75 m^2
14 m × 6 m P = 40 cm, A = 84 m^2
13 m × 7 m P = 40 cm, A = 91 m^2
12 m × 8 m P = 40 cm, A = 96 m^2
11 m × 9 m P = 40 cm, A = 99 m^2
10 m × 10 m P = 40 cm, A = 100 m^2
b 10 m × 10 m

2 200 m^2

3 400 m^2

Tuesday:

Making Singular Nouns Plural

1. Choose the correct plural noun to fit in the spaces.

a) Milly took all the **hats** out of the box and put them away.

b) Tahir's **teeth** started falling out when he was six.

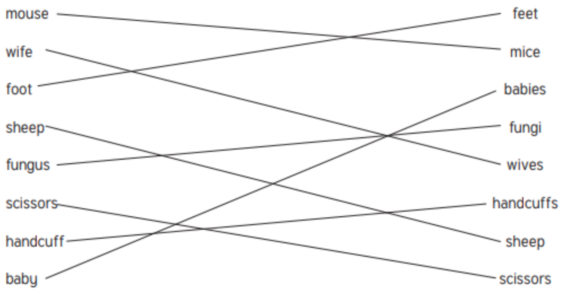
c) My grandpa loves to eat fresh **tomatoes**.

d) Some people say that cats have nine **lives**.

mice
knives
people
churches
boxes
chairs
lives
sheep
teeth
fungi
babies

tomatoes
dice
feet
cacti
daisies
boats
elves
memos
gardens
dominoes
fish

2. Draw arrows to match these singular nouns to their plurals.



1. How long have we known about dinosaurs? Tick one.

○ 200 million years
○ 200 thousand years
☑ **200 years**
○ 200 days

2. What is the name of a person who studies fossils?

A person who studies fossils is called a palaeontologist.

3. What is the nickname of the best preserved Tyrannosaurus rex skeleton? Tick **one**.

○ Sam
☑ **Sue**
○ Sylvia
○ Sandra

4. Fossils got their name from the old word **fossilis** which is an old word meaning... Tick **one**.

○ fossils
☑ **dug up**
○ buried
○ old

5. Tick the boxes to say whether the sentences are true or false.

	True	False
Some people used to think ammonites were snakes turned into stone.	✓	
Whitby is a town in South Yorkshire.		✓
Fossils can't be made under the sea.		✓
Fossils take millions of years to make.	✓	

6. Why weren't fossilised animals or plants eaten by other animals?

They were buried under mud or sand.

7. The author used an exclamation mark at the end of the **Did You Know...?** section to make it sound surprising. Why is that sentence surprising?

Accept any response that refers to this being a strange thing to believe, such as: 'It does not seem possible to turn snakes into stone. It could seem strange that people believed this.'

Lesson 2: Fraction and decimal equivalents (2)

Challenge 1 Answers will vary.

Challenge 2 1 a $\frac{1}{2} = 1 \div 2 = 0.5$

b $\frac{1}{4} = 1 \div 4 = 0.25$

c $\frac{3}{4} = 3 \div 4 = 0.75$

d $\frac{1}{5} = 1 \div 5 = 0.2$

e $\frac{3}{10} = 3 \div 10 = 0.3$

f $\frac{7}{10} = 7 \div 10 = 0.7$

g $\frac{2}{5} = 2 \div 5 = 0.4$

h $\frac{3}{8} = 3 \div 8 = 0.375$

i $\frac{4}{5} = 4 \div 5 = 0.8$

j $\frac{4}{10} = 4 \div 10 = 0.4$

2, 3

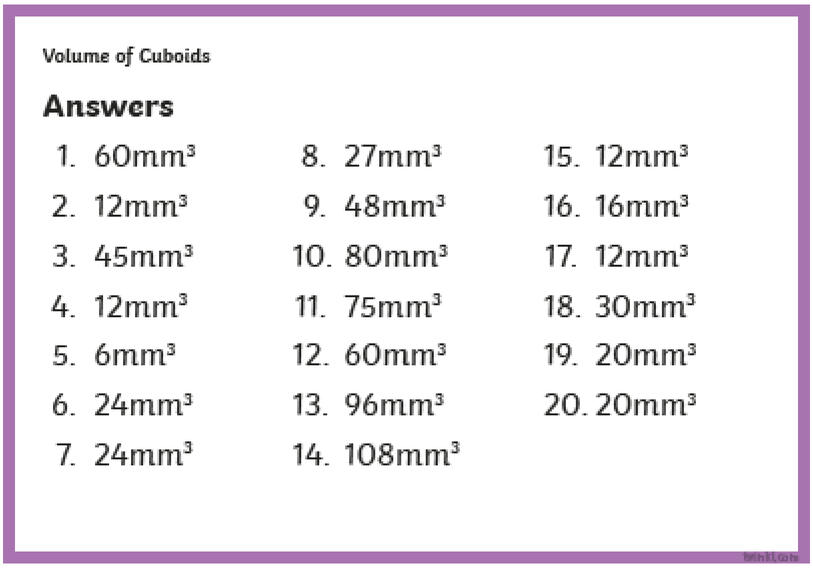
Less than half	More than half
$\frac{3}{9} = 0.333$	$\frac{7}{12} = 0.583$
$\frac{2}{7} = 0.285$	$\frac{4}{7} = 0.571$
$\frac{1}{3} = 0.333$	$\frac{8}{9} = 0.888$
$\frac{2}{11} = 0.181$	$\frac{8}{13} = 0.615$
$\frac{5}{12} = 0.416$	$\frac{2}{3} = 0.666$
$\frac{6}{15} = 0.4$	$\frac{6}{7} = 0.857$

4 Answers will vary.

Challenge 3 1 0.111 0.222 0.333 0.444 0.555 0.666 0.777 0.888

Answers will vary.

2
a 0.571
b 0.462
c 0.214
d 0.583
e 0.818
f 0.059
g 0.667
h 0.857



Volume of Cuboids

Answers

1. 60mm³
2. 12mm³
3. 45mm³
4. 12mm³
5. 6mm³
6. 24mm³
7. 24mm³
8. 27mm³
9. 48mm³
10. 80mm³
11. 75mm³
12. 60mm³
13. 96mm³
14. 108mm³
15. 12mm³
16. 16mm³
17. 12mm³
18. 30mm³
19. 20mm³
20. 20mm³

1. What are Mexican Bean Burgers packed with? Tick **one**.

   ○ fat
   ○ meat
   goodness
   ○ badness

2. What makes Mexican food fiery sometimes?

   Mexican food is sometimes fiery because it uses spicy chillies.

3. Only two of the following ingredients are correct. Tick the **two** that are correct.

   ○ 6 400g cans of baked beans (rinsed and drained)
   ○ **100g of breadcrumbs**
   ○ **2 tsp of mild chilli powder**
   ○ 4 eggs

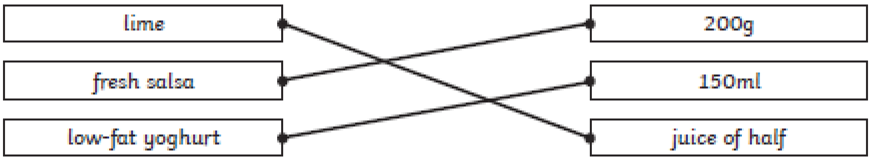
4. Number these steps to show the order that they should happen in. The first one has been done for you.

   4 With an adult's help, turn on the grill.
   3 Use your fingers to shape the mixture into six burgers.
   1 Place the kidney beans into a large bowl.
   2 Add salt and pepper if you like.
   5 Enjoy your delicious Mexican Bean Burger!

5. What should you do while the burgers are cooking?

   Mix the remaining coriander leaves, yoghurt and lime juice together in a separate bowl.

6. Draw a line to join the food with the amount needed in the recipe.



7. Which part of the instructions do you think you would enjoy the most? Explain your answer.

   Pupils' own responses, such as: I think I would enjoy shaping the mixture because it would be fun to stick your hands in and get messy.

Wednesday:

English

Nouns	Verbs	Adjectives	Adverbs
dragons	flew	fiery	fiercely
village		remote	

Lesson 3: Adding fractions

Challenge 1

1 a $10\frac{3}{5}$
b $12\frac{3}{4}$
c $10\frac{7}{8}$
d $13\frac{8}{9}$
e $8\frac{9}{10}$
f 8
g $14\frac{6}{7}$
h 15
i $9\frac{8}{12}$
j $15\frac{10}{11}$

2 a $\frac{6}{4} = 1\frac{2}{4}$
b $\frac{7}{5} = 1\frac{2}{5}$
c $\frac{9}{7} = 1\frac{2}{7}$
d $\frac{10}{8} = 1\frac{2}{8}$
e $\frac{14}{9} = 1\frac{5}{9}$
f $\frac{10}{7} = 1\frac{3}{7}$
g $\frac{14}{10} = 1\frac{4}{10}$
h $\frac{14}{11} = 1\frac{3}{11}$
i $\frac{13}{12} = 1\frac{1}{12}$

Challenge 2

1 a $10\frac{2}{5}$
b $7\frac{3}{8}$
c $15\frac{1}{3}$
d $13\frac{1}{9}$
e $15\frac{2}{10}$
f $15\frac{1}{2}$
g 10
h $14\frac{3}{7}$
i $17\frac{1}{12}$
j $11\frac{4}{13}$

2 Answers will vary.

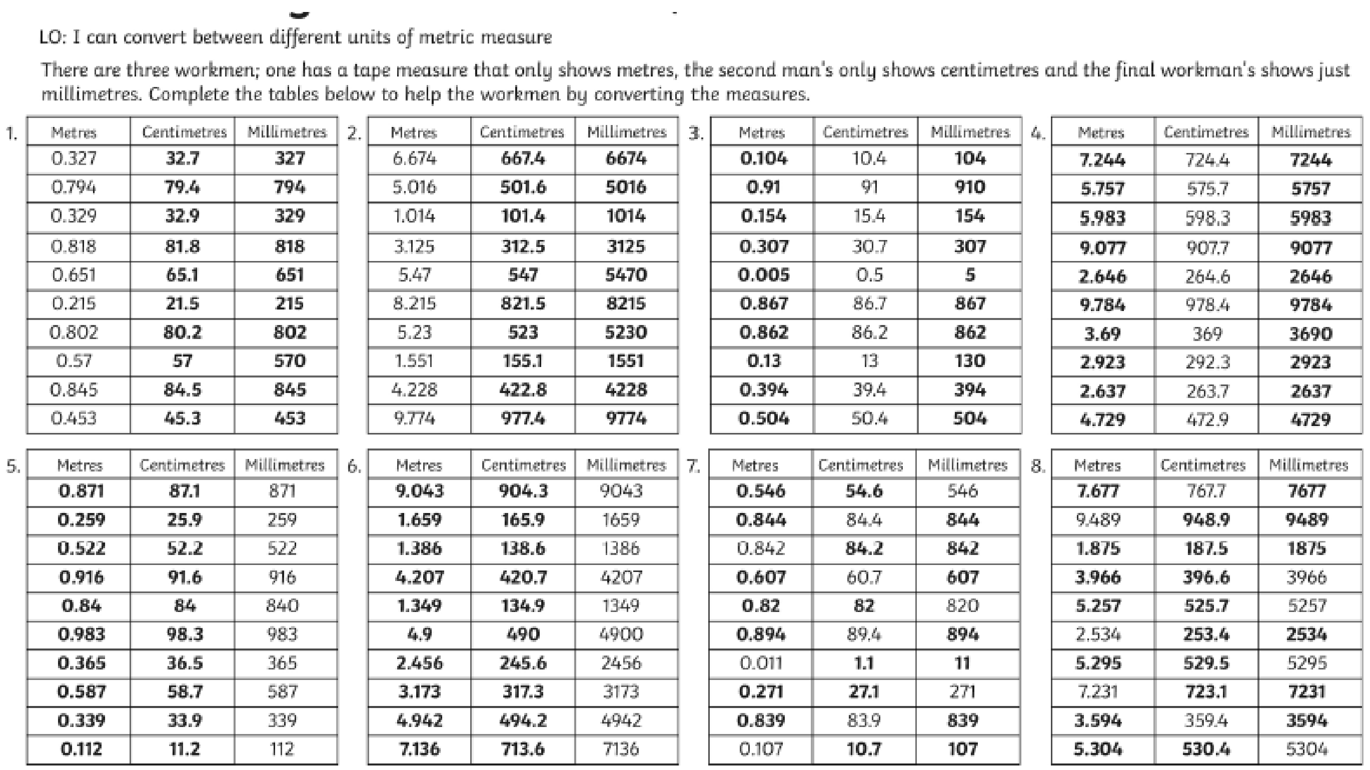
3 Answers will vary.

Challenge 3

1 a 3
b $1\frac{5}{8}$
c $3\frac{2}{4}$
d 3
e 4
f $2\frac{4}{6}$
g $2\frac{7}{10}$
h 4
i $4\frac{1}{4}$
j $2\frac{5}{12}$

2 Answers will vary.

3 Answers will vary.



LO: I can convert between different units of metric measure

There are three workmen; one has a tape measure that only shows metres, the second man's only shows centimetres and the final workman's shows just millimetres. Complete the tables below to help the workmen by converting the measures.

1.

Metres	Centimetres	Millimetres
0.327	**32.7**	**327**
0.794	**79.4**	**794**
0.329	**32.9**	**329**
0.818	**81.8**	**818**
0.651	**65.1**	**651**
0.215	**21.5**	**215**
0.802	**80.2**	**802**
0.57	**57**	**570**
0.845	**84.5**	**845**
0.453	**45.3**	**453**

2.

Metres	Centimetres	Millimetres
6.674	**667.4**	**6674**
5.016	**501.6**	**5016**
1.014	**101.4**	**1014**
3.125	**312.5**	**3125**
5.47	**547**	**5470**
8.215	**821.5**	**8215**
5.23	**523**	**5230**
1.551	**155.1**	**1551**
4.228	**422.8**	**4228**
9.774	**977.4**	**9774**

3.

Metres	Centimetres	Millimetres
0.104	10.4	**104**
0.91	91	**910**
0.154	15.4	**154**
0.307	30.7	**307**
0.005	0.5	**5**
0.867	86.7	**867**
0.862	86.2	**862**
0.13	13	**130**
0.394	39.4	**394**
0.504	50.4	**504**

4.

Metres	Centimetres	Millimetres
7.244	724.4	**7244**
5.757	575.7	**5757**
5.983	598.3	**5983**
9.077	907.7	**9077**
2.646	264.6	**2646**
9.784	978.4	**9784**
3.69	369	**3690**
2.923	292.3	**2923**
2.637	263.7	**2637**
4.729	472.9	**4729**

5.

Metres	Centimetres	Millimetres
0.871	**87.1**	871
0.259	**25.9**	259
0.522	**52.2**	522
0.916	**91.6**	916
0.84	**84**	840
0.983	**98.3**	983
0.365	**36.5**	365
0.587	**58.7**	587
0.339	**33.9**	339
0.112	**11.2**	112

6.

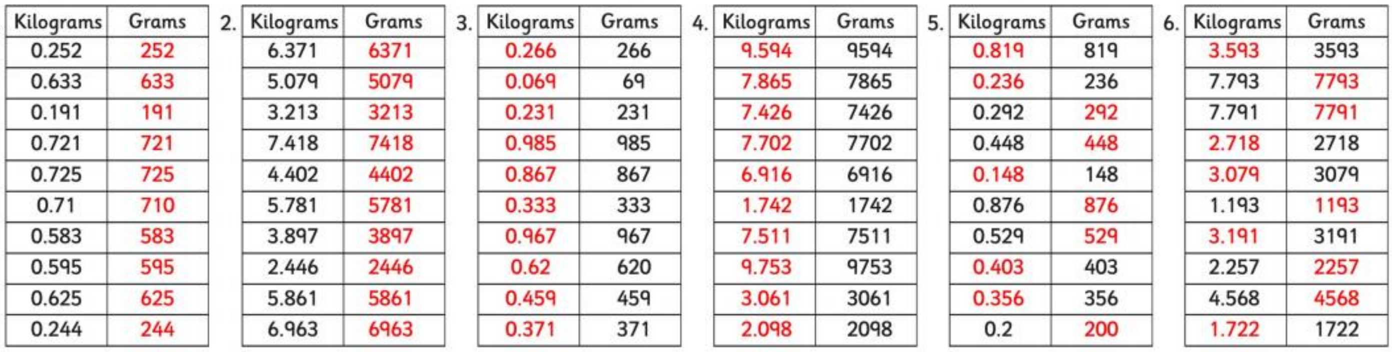
Metres	Centimetres	Millimetres
9.043	**904.3**	9043
1.659	**165.9**	1659
1.386	**138.6**	1386
4.207	**420.7**	4207
1.349	**134.9**	1349
4.9	**490**	4900
2.456	**245.6**	2456
3.173	**317.3**	3173
4.942	**494.2**	4942
7.136	**713.6**	7136

7.

Metres	Centimetres	Millimetres
0.546	**54.6**	546
0.844	84.4	**844**
0.842	**84.2**	**842**
0.607	60.7	**607**
0.82	**82**	820
0.894	89.4	**894**
0.011	**1.1**	**11**
0.271	**27.1**	271
0.839	83.9	**839**
0.107	**10.7**	**107**

8.

Metres	Centimetres	Millimetres
7.677	767.7	**7677**
9.489	**948.9**	**9489**
1.875	**187.5**	**1875**
3.966	**396.6**	3966
5.257	**525.7**	5257
2.534	**253.4**	**2534**
5.295	**529.5**	5295
7.231	**723.1**	**7231**
3.594	359.4	**3594**
5.304	**530.4**	5304



Kilograms	Grams
0.252	252
0.633	633
0.191	191
0.721	721
0.725	725
0.71	710
0.583	583
0.595	595
0.625	625
0.244	244

2.

Kilograms	Grams
6.371	6371
5.079	5079
3.213	3213
7.418	7418
4.402	4402
5.781	5781
3.897	3897
2.446	2446
5.861	5861
6.963	6963

3.

Kilograms	Grams
0.266	266
0.069	69
0.231	231
0.985	985
0.867	867
0.333	333
0.967	967
0.62	620
0.459	459
0.371	371

4.

Kilograms	Grams
9.594	9594
7.865	7865
7.426	7426
7.702	7702
6.916	6916
1.742	1742
7.511	7511
9.753	9753
3.061	3061
2.098	2098

5.

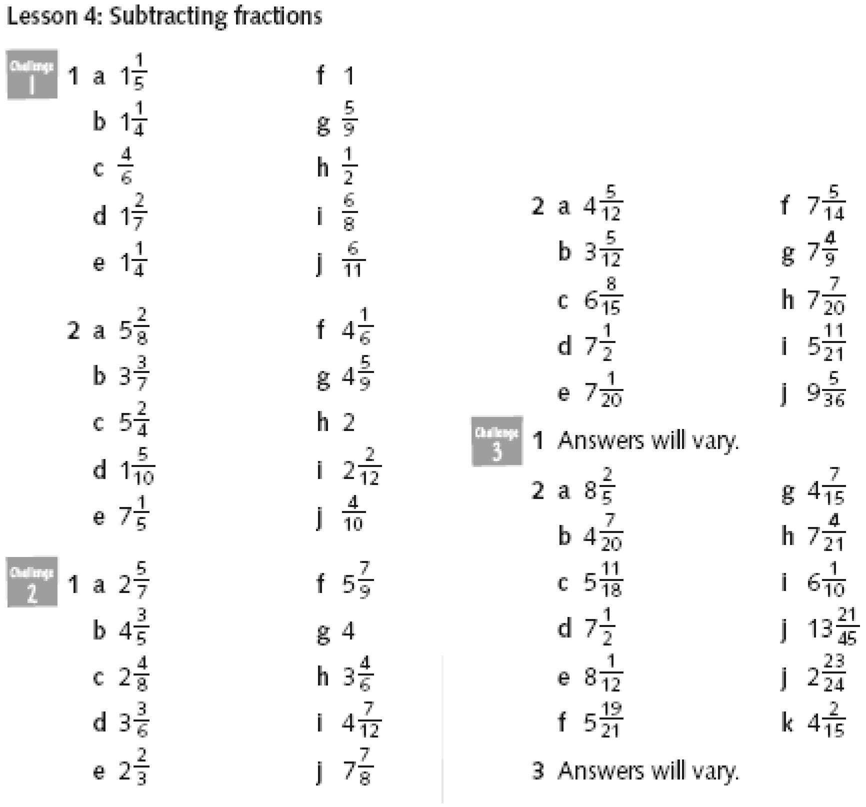
Kilograms	Grams
0.819	819
0.236	236
0.292	292
0.448	448
0.148	148
0.876	876
0.529	529
0.403	403
0.356	356
0.2	200

6.

Kilograms	Grams
3.593	3593
7.793	7793
7.791	7791
2.718	2718
3.079	3079
1.193	1193
3.191	3191
2.257	2257
4.568	4568
1.722	1722

Thursday

The young Viking is good friends with a dragon.



Lesson 4: Subtracting fractions

Challenge 1

1 a $1\frac{1}{5}$
b $1\frac{1}{4}$
c $\frac{4}{6}$
d $1\frac{2}{7}$
e $1\frac{1}{4}$
f 1
g $\frac{5}{9}$
h $\frac{1}{2}$
i $\frac{6}{8}$
j $\frac{6}{11}$

2 a $5\frac{2}{8}$
b $3\frac{3}{7}$
c $5\frac{2}{4}$
d $1\frac{5}{10}$
e $7\frac{1}{5}$
f $4\frac{1}{6}$
g $4\frac{5}{9}$
h 2
i $2\frac{2}{12}$
j $\frac{4}{10}$

Challenge 2

1 a $2\frac{5}{7}$
b $4\frac{3}{5}$
c $2\frac{4}{8}$
d $3\frac{3}{6}$
e $2\frac{2}{3}$
f $5\frac{7}{9}$
g 4
h $3\frac{4}{6}$
i $4\frac{7}{12}$
j $7\frac{7}{8}$

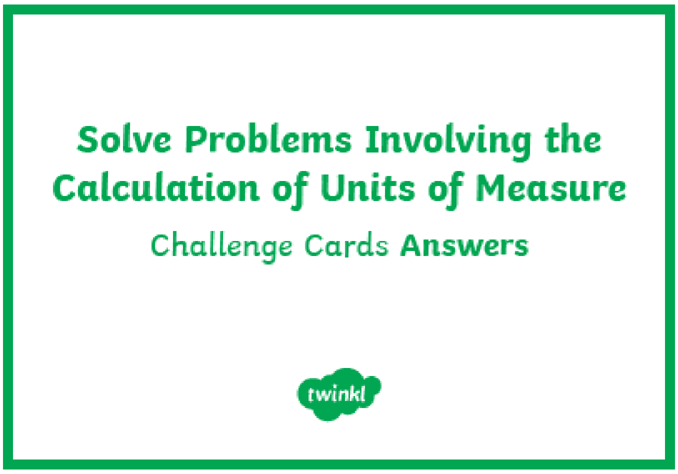
2 a $4\frac{5}{12}$
b $3\frac{5}{12}$
c $6\frac{8}{15}$
d $7\frac{1}{2}$
e $7\frac{1}{20}$
f $7\frac{5}{14}$
g $7\frac{4}{9}$
h $7\frac{7}{20}$
i $5\frac{11}{21}$
j $9\frac{5}{36}$

Challenge 3

1 Answers will vary.

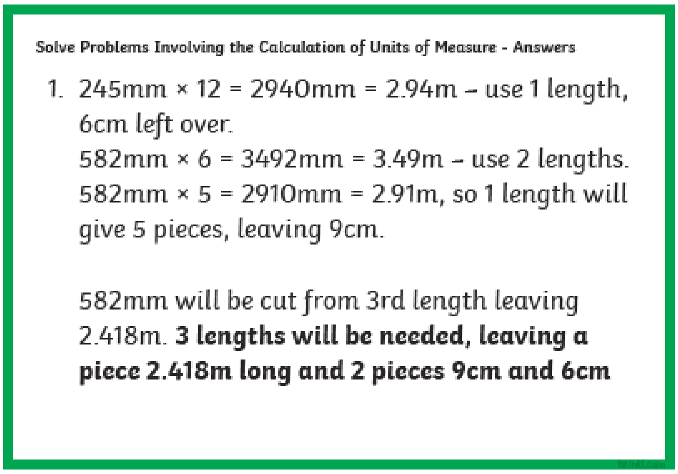
2 a $8\frac{2}{5}$
b $4\frac{7}{20}$
c $5\frac{11}{18}$
d $7\frac{1}{2}$
e $8\frac{1}{12}$
f $5\frac{19}{21}$
g $4\frac{7}{15}$
h $7\frac{4}{21}$
i $6\frac{1}{10}$
j $13\frac{21}{45}$
j $2\frac{23}{24}$
k $4\frac{2}{15}$

3 Answers will vary.



Solve Problems Involving the Calculation of Units of Measure

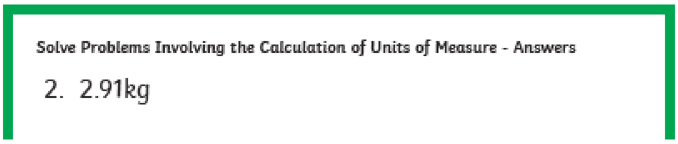
Challenge Cards **Answers**



Solve Problems Involving the Calculation of Units of Measure - Answers

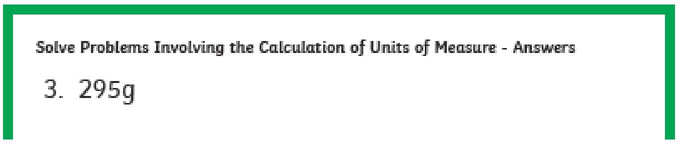
1. 245mm × 12 = 2940mm = 2.94m – use 1 length, 6cm left over.
   582mm × 6 = 3492mm = 3.49m – use 2 lengths.
   582mm × 5 = 2910mm = 2.91m, so 1 length will give 5 pieces, leaving 9cm.

   582mm will be cut from 3rd length leaving 2.418m. **3 lengths will be needed, leaving a piece 2.418m long and 2 pieces 9cm and 6cm**



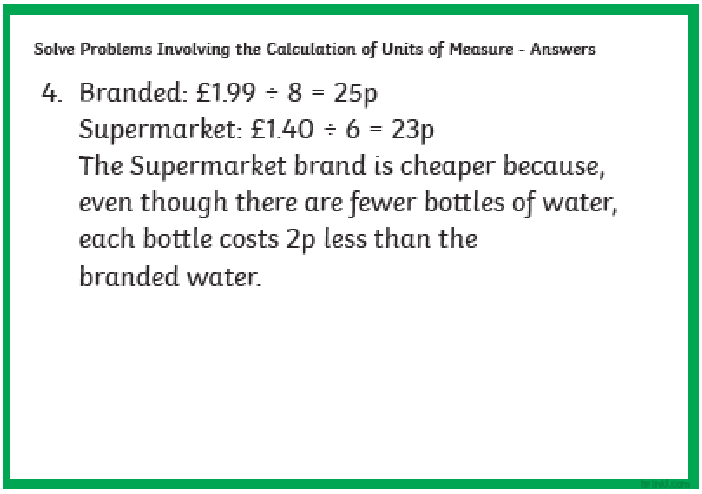
Solve Problems Involving the Calculation of Units of Measure - Answers

2. 2.91kg



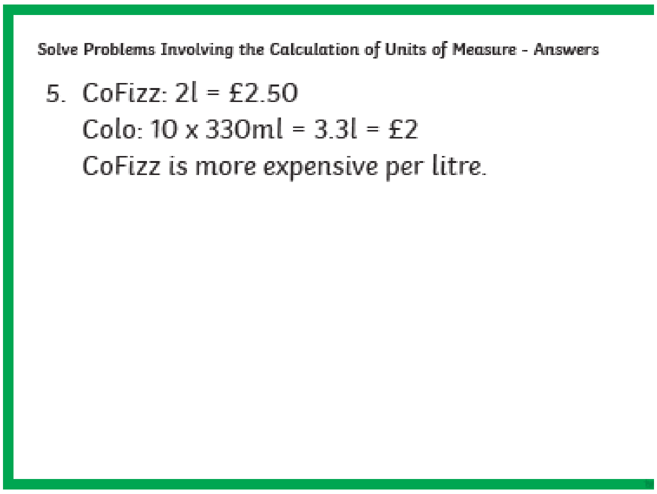
Solve Problems Involving the Calculation of Units of Measure - Answers

3. 295g



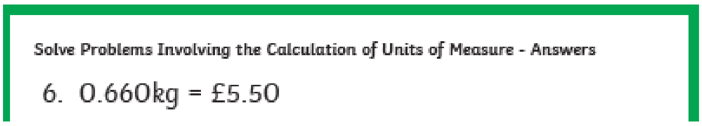
Solve Problems Involving the Calculation of Units of Measure - Answers

4. Branded: £1.99 ÷ 8 = 25p
   Supermarket: £1.40 ÷ 6 = 23p
   The Supermarket brand is cheaper because, even though there are fewer bottles of water, each bottle costs 2p less than the branded water.



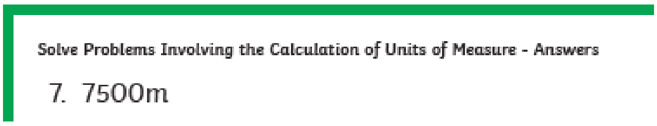
Solve Problems Involving the Calculation of Units of Measure - Answers

5. CoFizz: 2l = £2.50
   Colo: 10 x 330ml = 3.3l = £2
   CoFizz is more expensive per litre.



Solve Problems Involving the Calculation of Units of Measure - Answers

6. 0.660kg = £5.50



Solve Problems Involving the Calculation of Units of Measure - Answers

7. 7500m

Friday:

English

rapids
[✓ dangerous]
journey
mountains
[✓ risky]

ice
conditions
[✓ unsafe]
attack
enemy

[✓ dark]
water
past
depths
pond
atmosphere

swamp
[✓ muddy]
darkness
[✓ cloudy]
gloom
sky

pond
water
sewer
[✓ lifeless]
[✓ foul]

swamp
air
marsh
[✓ stale]

After locating its prey in the treacherous depths of the pitch-black ocean, the anglerfish attacks.

This ferocious predator finds its prey in the still, stagnant shallows of the ocean.

The murky waters of the deep make this creature hard to see.

Lesson 1: Adding and subtracting fractions (1)

Challenge 1

1 a $\frac{5}{4}$
b $\frac{8}{10}$
c $\frac{13}{12}$
d $\frac{8}{6}$
e $\frac{9}{12}$
f $\frac{14}{14}$
g $\frac{17}{20}$
h $\frac{17}{18}$
i $\frac{7}{6}$
j $\frac{13}{10}$
k $\frac{2}{8}$
l $\frac{5}{10}$
m $\frac{2}{6}$
n $\frac{3}{12}$
o $\frac{3}{14}$
p $\frac{7}{20}$
q $\frac{11}{18}$
r $\frac{1}{6}$
s $\frac{1}{10}$
t $\frac{7}{24}$

2 a $1\frac{1}{4}$
c $1\frac{1}{12}$
d $1\frac{2}{6}$
f 1
i $1\frac{1}{6}$
j $1\frac{3}{10}$

Challenge 2

1 a $24\frac{11}{20}$
b $27\frac{3}{20}$
c $34\frac{20}{24}$
d $53\frac{8}{18}$
e $40\frac{1}{12}$
f $52\frac{11}{35}$
g $51\frac{6}{30}$
h $56\frac{8}{30}$
i $61\frac{9}{42}$
j $68\frac{23}{40}$
k $12\frac{7}{20}$
l $9\frac{3}{20}$
m $7\frac{19}{24}$
n $7\frac{5}{12}$
o $9\frac{22}{35}$
p $12\frac{20}{30}$

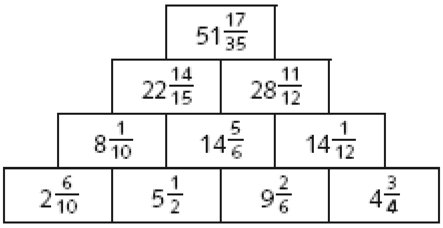
2 Answers will vary; $3\frac{16}{33}$

3 $\frac{105}{20} = 5\frac{1}{4}$ *l* is left. This is $\frac{7}{8}$ of a full turn

4 Answers will vary.

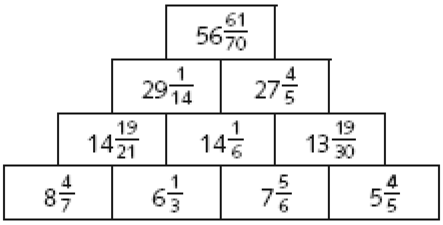
Challenge 3

1 a



$51\frac{17}{35}$
$22\frac{14}{15}$ $28\frac{11}{12}$
$8\frac{1}{10}$ $14\frac{5}{6}$ $14\frac{1}{12}$
$2\frac{6}{10}$ $5\frac{1}{2}$ $9\frac{2}{6}$ $4\frac{3}{4}$

b



$56\frac{61}{70}$
$29\frac{1}{14}$ $27\frac{4}{5}$
$14\frac{19}{21}$ $14\frac{1}{6}$ $13\frac{19}{30}$
$8\frac{4}{7}$ $6\frac{1}{3}$ $7\frac{5}{6}$ $5\frac{4}{5}$

2 Answers will vary.

1.
(a) 45
b) 15:13

Q2.

03:10 10:03 13:10
15:10 10:15

Q3.
(a) 3
(b) 2 hours 5 minutes
c) 18:15

Q4.
23

Q5.
(a) 3 hours 35 minutes

(b) 15:15