Year 6

Autumn 2 Home learning Pack
Week beginning 14th December

Home Learning

We hope this slide is helpful but please get in touch through school admin if you have any questions. ☺

Dear Parents,

Please find attached a home learning pack for your child if they are isolating at home or in the event of a school closure. In this pack you will find daily activities for English, Reading, Maths and Spelling. Each afternoon there is a lesson from the wider curriculum. Some of these lessons have a list of possible activities for your children to complete. These get gradually more challenging so please support your child to select something that is appropriate for their stage of learning.

If you have any questions or concerns, you are able to post these on Microsoft Teams or email through school admin, but please be aware we are teaching in school and bare with us if we are not able to respond straight away.

Miss Rolls, Mrs Ogston, Ms Sherfield, Mr Hatton and Mr Sayer.

Weekly Timetable:

Mon	Reading Grid	Maths		Spelling	English		Times Table Rock Stars	Geography
Tues	Reading Grid	Maths		Spelling	English		Times Table Rock Stars	Science
Wed	Reading	Maths		Spelling	English		Times Table Rock Stars	PE
Thurs	Reading	Maths		Spelling	English		Times Table Rock Stars	Art or DT
Fri	Reading	Maths		Spelling	English		Times Table Rock Stars	Enrichment

Please upload learning to Microsoft Teams at the end of the week

Maths	
Monday	LO: Watch the video - https://vimeo.com/476254074 Complete the tasks below.

Divide fractions by integers (1)

White Rose Maths

1 Use the diagrams to help complete the calculations.

a)

$\frac{4}{5} \div 4 = \square$

b)

$\frac{3}{5} \div 3 = \square$

c)

$\frac{6}{7} \div 2 = \square$

d)

$\frac{6}{7} \div 3 = \square$

2 Huan shares $\frac{8}{10}$ of a litre of juice equally between 4 glasses.

How much juice is in each glass?

$\square$

3 Complete the divisions.

a) $\square = \frac{4}{5} \div 2$

$\square = \frac{4}{10} \div 4$

$\square = \frac{4}{20} \div 4$

$\square = \frac{2}{10} \div 2$

b) $\frac{12}{25} \div \square = \frac{4}{25}$

$\frac{12}{25} \div \square = \frac{3}{25}$

$\frac{12}{25} \div \square = \frac{2}{25}$

$\frac{\square}{25} \div 6 = \frac{4}{25}$

4 Calculate the weights.

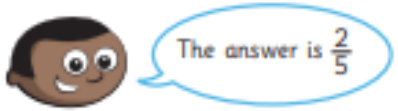
a)

$\square$

b)

$\square$

5 Mo works out $\frac{10}{25} \div 5$



a) What mistake has Mo made?

b) Draw diagrams to show why Mo is wrong.

Talk about your answer with a partner.

6 Complete the calculations. Give your answers in their simplest form.

a) $\frac{4}{10} \div 2 = \frac{\square}{10} = \frac{\square}{5}$

b) $\frac{10}{15} \div 2 = \frac{\square}{15} = \square$

c) $\frac{20}{45} \div 4 = \square = \square$

d) $\frac{18}{45} \div 2 = \square = \square$

e) $\frac{24}{56} \div 3 = \square = \square$

f) $\square = \square = \frac{21}{56} \div 3$

7 a) Complete the calculation.

$$\frac{6}{8} \div \square = \frac{1}{4}$$

b) Find the missing numbers to make this division correct.

$$\frac{24}{\square} \div \square = \frac{1}{20}$$

8 ♥ is a whole number.

● is a fraction.

$$\frac{10}{♥} \div 2 = \frac{1}{2} \times ●$$

a) Find values for ♥ and ●.

♥ = ☐ ● = ☐

b) What do you notice? Explain using diagrams or words.

Maths	
Tuesday	LO: Watch the video - https://vimeo.com/480707655 Complete the tasks below.

Divide fractions by integers (2)

White Rose Maths

1

$\frac{4}{5} \div 2$ $\frac{4}{5} \div 3$

a) Write two things that are the same about the calculations.

b) Write one thing that is different about the calculations.

c) Draw a diagram to help you work out the answer to $\frac{4}{5} \div 2$

d) Draw a diagram to help you work out the answer to $\frac{4}{5} \div 3$

2 Complete the divisions using the diagrams to help you.

a) $\frac{1}{3} \div 2 =$ ☐

b) $\frac{1}{3} \div 3 =$ ☐

c) $\frac{2}{3} \div 3 =$ ☐

3 $\frac{3}{4}$ of a kilogram of rice is divided equally between two bowls.

How much rice is in each bowl?

☐

Tuesday Questions part 2

4 Work out the divisions.

a) $\frac{1}{5} \div 7 = \square$

b) $\square = \frac{1}{6} \div 3$

c) $\frac{1}{4} \div 9 = \square$

d) $\square = \frac{1}{7} \div 6$

e) $\frac{4}{9} \div 7 = \square$

f) $\square = \frac{5}{6} \div 12$

g) $\frac{8}{3} \div 7 = \square$

h) $\square = \frac{19}{20} \div 5$

i) $\frac{1}{100} \div 25 = \square$

j) $\square = \frac{45}{50} \div 20$

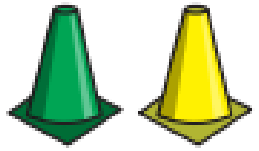
5 Write <, > or = to complete each statement.

a) $\frac{1}{3} \div 5 \bigcirc \frac{1}{5} \div 3$

b) $\frac{1}{3} \div 3 \bigcirc \frac{1}{5} \div 5$

c) $\frac{3}{5} \div 5 \bigcirc \frac{3}{5} \div 3$

6 There are some cones in the PE shed.



Classes 1, 2 and 3 share them equally.

- Class 1 put theirs into 4 equal piles.
- Class 2 put theirs into 5 equal piles.
- Class 3 put theirs into 11 equal piles.

What fraction of the whole number of cones is in each pile?

	Fraction in each pile
Class 1	
Class 2	
Class 3	

7 a) Which of these statements are true? Tick your answers.

$\frac{1}{2} \div 2$ *is equal to* $\frac{1}{2} \times \frac{1}{2}$ ☐

$\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4}$ ☐

$\frac{1}{2} \div 3 = \frac{1}{2} \times \frac{1}{3}$ ☐

$\frac{1}{2} \div 5 = \frac{1}{2} \times \frac{1}{5}$ ☐

b) What do you notice?

Is it only true for halves?

Does it work for non-unit fractions?

Talk to a partner.

Maths

Wednesday	LO: Watch the video - https://vimeo.com/480708159 Complete the tasks below.

Four rules with fractions

Rose Maths

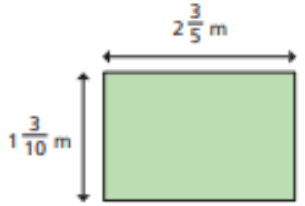
1 Work out the missing total.

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

Show all the steps in your working.

Explain your method to a partner.

2 Work out the perimeter of the rectangle.



Explain your method to your partner.

Did you work it out in the same way?

3 Complete the calculations.

a) $(\frac{2}{3} + \frac{2}{3}) \times 3 =$ ☐

b) $(\frac{2}{3} + \frac{2}{3}) \div 3 =$ ☐

c) $\frac{2}{3} + \frac{2}{3} \times 3 =$ ☐

d) $\frac{2}{3} + \frac{2}{3} \div 3 =$ ☐

4 Jack mixes $\frac{2}{3}$ of a litre of orange juice and $\frac{3}{4}$ of a litre of apple juice.

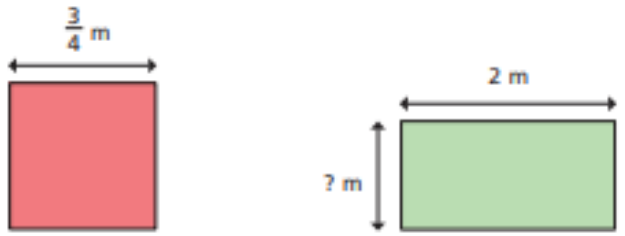
He pours the juice into 5 glasses equally.

How much juice is in each glass?

☐

5 The area of these two shapes are equal.

Find the height of the rectangle.



6 In a class, $\frac{2}{3}$ of the pupils are boys.

$\frac{1}{4}$ of the girls wear glasses and $\frac{1}{6}$ of the boys wear glasses.

Do more boys or girls wear glasses?

Explain your reasoning.

7 Work out the calculation.

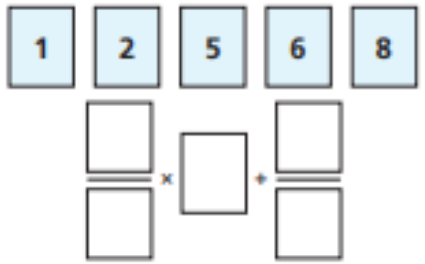
$$\left(1\frac{3}{5} - \frac{7}{10}\right)^2$$

8 Use what you know about working with fractions to explain, prove or disprove the following statements.

a) Half of a half of a half is an eighth.

b) Quarter of a half plus half of a quarter is a quarter.

9



Explore the different totals you can make using each card once only.

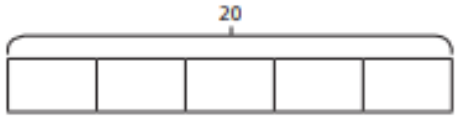
Maths

Thursday	LO: Watch the video - https://vimeo.com/480708541 Complete the tasks below.

Fractions of an amount

White Rose Maths

1



a) Shade $\frac{1}{5}$ of the bar model.

b) What is $\frac{1}{5}$ of 20? ☐

2 Use your times tables knowledge to solve the calculations.

a) $\frac{1}{3}$ of 12 = ☐

b) $\frac{1}{4}$ of £20 = ☐

c) $\frac{1}{5}$ of 35 m = ☐

d) $\frac{1}{10}$ of 80 cm = ☐

e) $\frac{1}{12}$ of 60 = ☐

f) $\frac{1}{7}$ of 84 kg = ☐

Now use your answers to solve these calculations.

a) $\frac{2}{3}$ of 12 = ☐

b) $\frac{3}{4}$ of £20 = ☐

c) $\frac{3}{5}$ of 35 m = ☐

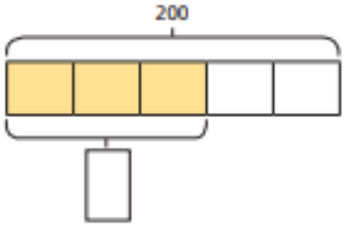
d) $\frac{7}{10}$ of 80 cm = ☐

e) $\frac{11}{12}$ of 60 = ☐

f) $\frac{6}{7}$ of 84 kg = ☐

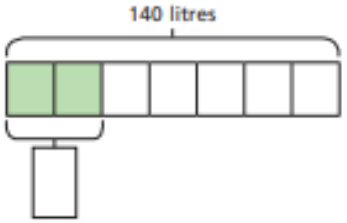
3 Calculate the missing values.

a)



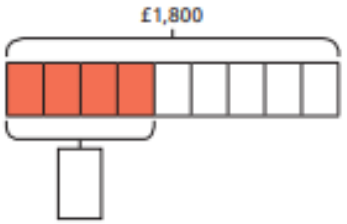
$\frac{3}{5}$ of 200 = ☐

b)



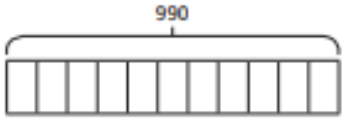
$\frac{2}{7}$ of 140 litres = ☐

c)



$\frac{4}{9}$ of £1,800 = ☐

d)



$\frac{3}{11}$ of 990 = ☐

4 a) In a school of 480 pupils, $\frac{2}{3}$ are juniors.

How many juniors are in the school?

b) A factory makes 256 cars.

$\frac{3}{8}$ are electric cars.

How many electric cars does the factory make?

c) Brett uses $\frac{2}{5}$ of his £180 savings to buy a train ticket.

How much of his savings does he have left?

5

Alex has 288 m of fence to paint.

She paints $\frac{3}{12}$ of the whole fence on Monday. She then paints $\frac{1}{2}$ of what is left on Tuesday.

How much fence does she have left to paint?

6 Fill in the missing numbers.

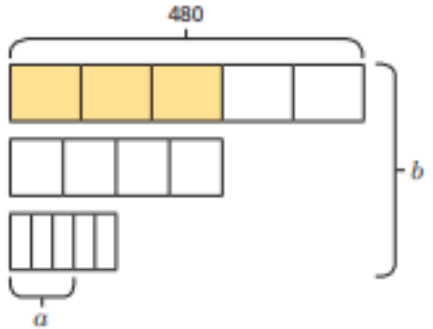
a) $\frac{\square}{10}$ of \$500 = \$150

b) $\frac{\square}{4}$ of 100 kg = 75 kg

c) 42 = $\frac{\square}{100}$ of 700

d) 450 = $\frac{\square}{20}$ of 3,000

7 Find the values of a and b.



$a =$ ☐ $b =$ ☐

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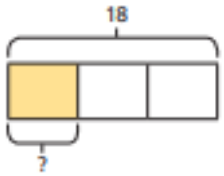
Maths	
Friday	LO: Watch the video - https://vimeo.com/480708847 Complete the tasks below.

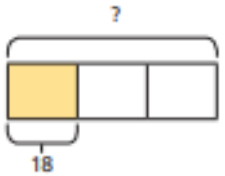
Fraction of an amount – find the whole

Rose Maths

1 Complete the calculations.



$\frac{1}{3}$ of 18 = ☐



$\frac{1}{3}$ of ☐ = 18

What is the same about the calculations?

What is different?

2 a) Mr Hall walked $\frac{2}{3}$ of the way from his house to work.

He walked 6 miles.

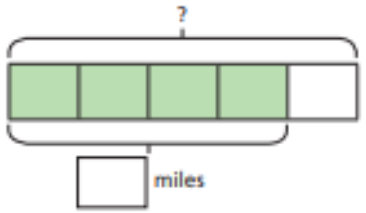
How far is it in total from his house to work?

☐

b) Jenny cycled $\frac{4}{5}$ of the way from her house to work.

She cycled 16 miles.

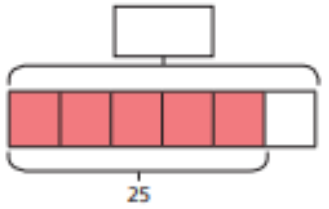
How far is it in total from her house to work?



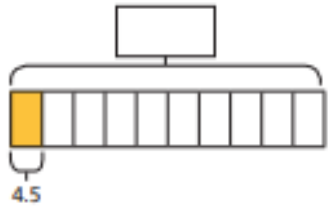
☐

3 Calculate the missing wholes.

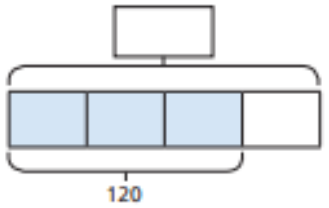
a)



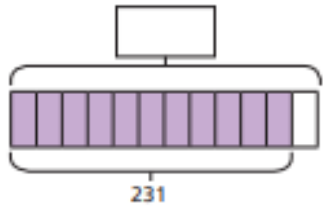
c)



b)



d)



4 Fill in the missing information.

a) $\frac{1}{3}$ of ☐ = 20

b) 80 = $\frac{4}{10}$ of ☐

$\frac{2}{3}$ of ☐ = 20

800 = $\frac{4}{10}$ of ☐

$\frac{4}{5}$ of ☐ = 20

8 = $\frac{4}{10}$ of ☐

$\frac{4}{5}$ of ☐ = 120

80 = $\frac{4}{100}$ of ☐

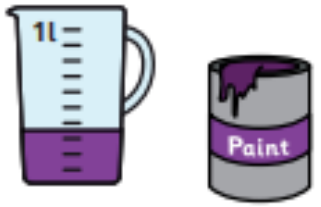
5 This diagram shows the fractions of trees in school grounds.

There are 40 elm trees.

Complete the table.

Oak	
Elm	40
Fir	
Apple	
Total	

6 Jack poured $\frac{7}{10}$ of a tin of paint into this jug.



How many millimetres of paint are left in the tin?

☐

7 Complete the calculations.

4 = $\frac{10}{15}$ of ☐

15 = $\frac{75}{100}$ of ☐

1 = $\frac{250}{2,000}$ of ☐

Compare your method with a partner. What do you notice?

Weekly Reading

Use your reading book to complete these tasks each week				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
1) Read to an adult or independently for ten minutes 2) Pick three new words and look up their meaning in a dictionary.	1) Read to an adult or independently for ten minutes 2) Write a summary of what has happened in the book so far or what you have learnt.	1) Read to an adult or independently for ten minutes. 2) Write a character description or setting description.	1) Read to an adult or independently for ten minutes. 2) Find ten adjectives in the book. Pick three and write your own sentence using them.	1) Read to an adult or independently for ten minutes. 2) Create a list of your favorite words and phrases that you would like to magpie from the text.

Weekly Spellings

Weekly Spellings: direction, competition, explanation, cautious, especially, ancient, appreciate, delicious				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Write out your spellings in alphabetical order	Write out the definitions for your spellings.	Pick three words that you find the most challenging to spell. How many times can you write these words in 1 minute per word.	Write a sentence for each word.	Rainbow writing. Write the word in one colour. Then trace over the word in different colour. Repeat with 5 colours in total.

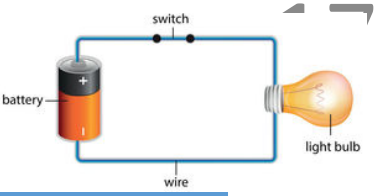
English

English 14.12.20 – narrative writing				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
LO: To understand the context of a film called 'Rabbit Proof Fence' https://classroom.thenational.academy/lessons/to-understand-the-context-of-the-film-71jkcc	LO: To generate vocabulary for a film called 'Rabbit Proof Fence' https://classroom.thenational.academy/units/rabbit-proof-fence-narrative-writing-7070	LO: To plan a narrative scene https://classroom.thenational.academy/lessons/to-plan-a-narrative-scene-part-1-6hh3cr	LO: To write a narrative scene https://classroom.thenational.academy/lessons/to-write-a-narrative-scene-c4w64e	LO: To edit a narrative scene **https://classroom.thenational.academy/lessons/to-edit-a-narrative-scene-61j6cr**

Geography

Select the activity for the week you are off	
Week beginning 9th November Lesson 1	What are the world's natural resources? https://classroom.thenational.academy/units/natural-resources-130e
Week beginning 16th November Lesson 2	How has the use of natural resources changed? https://classroom.thenational.academy/units/natural-resources-130e
Week beginning 23rd November Lesson 3	What resources does Chile have? https://classroom.thenational.academy/units/natural-resources-130e
Week beginning 30th November Lesson 4	What resources does the UK have? https://classroom.thenational.academy/units/natural-resources-130e
Week beginning 7th December Lesson 5	How does resource exploitation cause problems? https://classroom.thenational.academy/units/natural-resources-130e
Week beginning 14th Lesson 6	What is a circular economy? https://classroom.thenational.academy/units/natural-resources-130e

Science - Electricity



Click on the link for the weekly activity, watch the video and complete the task.	
Wk beg 02.11.20	https://classroom.thenational.academy/lessons/what-is-static-electricity-74tk2t What is Static electricity?
Wk beg 09.11.20	https://classroom.thenational.academy/lessons/what-are-the-different-components-in-an-electrical-circuit-cdk34d Components in an electrical circuit
Wk beg 16.11.20	https://classroom.thenational.academy/lessons/what-are-circuit-diagrams-6ngk0c Circuit diagrams
Wk beg 23.11.20	https://classroom.thenational.academy/lessons/what-are-insulators-and-conductors-6rtp8t Conductor and Insulators
Wk beg 30.11.20	https://classroom.thenational.academy/lessons/what-happens-in-a-circuit-when-we-change-the-components-60wp2r Changing the components in a circuit.
Wk beg 14.12.20	https://classroom.thenational.academy/lessons/how-much-do-we-rely-on-electricity-cnhkct How much do we rely on electricity?

P.E

Select an activity from either of the lists below for today's P.E lesson. Remember to ask your adult before beginning an indoor P.E activity.

	Indoor P.E		Outdoor P.E
1	**Twister –** Play a game of Twister! Twister is fun, encourages flexibility and balance, and is perfect for a rainy day or if you don't have an outdoor space available right now.	1	**Hopscotch -** Hopscotch is excellent for helping you improve balance and coordination because of all of the rapid changes in movement required. Get out the chalk and set up hopscotch on your patio or driveway and hop along with each other.
2	**Dance + freeze -** Adding a "freeze" element to a living room dance party makes it more fun whilst also encouraging you to develop your balancing skills.	2	**Obstacle course -** Enlist your child's help in setting up an obstacle course in the backyard. Get creative with what you have available to make it fun and challenging. Use garden stones or an old 2x4 to create a balance beam, mark a pathway for them to run or ride their bike on, set up a big bucket for them to throw a ball in.
3	**Yoga -** Practicing yoga together is a great way to challenge your balance and coordination while also getting some much needed zen time with your family.	3	**Foursquare -** Sometimes the simple, time-tested games are the best! Draw numbered squares on your driveway/on a patio and challenge each other to bounce the ball to a family member standing in whatever number square you call out. (You *do* need four people for a traditional foursquare game, but if you have fewer than four people in your household, you can create a simple variation by drawing a triangle or a rectangle with fewer spots.)
4	**Beanbag toss -** Set up two baskets, one full of beanbags or soft balls. You can practise throwing a beanbag from one basket to another to work on coordination. Move the baskets further apart as to really challenge yourself.	4	**Follow the leader -** Line up single file and let each family member take turns being the "leader." The leader decides how the group will move around the backyard. Think crawling around the perimeter, walking backwards (carefully), hopping on one foot, going down the slide if you have one.
5	**Jump rope -** Jump rope is the perfect indoor PE activity because it uses up so much energy, requires very little space and is excellent practice for coordination. NOTE: Make sure you find a safe area to do this.	5	**Red light green light -** Stand along the fence in the backyard. Ask your adult to stand across the garden. When the adults call "Green Light!" you can advance towards them and they call "Red Light!" you stop. Your adult will change up the type of movement you use, from jumping to tiptoeing, and make sure to switch roles so you get a chance to lead too.

Wellbeing Afternoon

Select an activity for the afternoon	
Board Game	Play a board game with your family or sibling
Build a den	Build a den inside or out
Cooking	Why not try cooking something new
Reading	Snuggle up with a good book
An Act of Kindness	Complete a kind act for someone in your family. E.g. write them a kind note
Comedy Show	Find ten funny jokes and deliver a comedy show to your family
Exercise	Use cosmic yoga or play in your garden

Additional Geography

Select an activity. They get progressively more challenging so pick one that you feel is right for you ☺	
1	Draw a map of your bedroom
2	Draw a map of your journey to school
3	Go on google maps and find your home. Use this to make a map of your street
4	Make a map of Wokingham Town Centre
5	Write a list of all the counties in the UK. Write them our in Alphabetical order. Which ones have you been to? What are the physical and human features like?
6	How many countries in the world can you name? Now use a map to find ten countries that you didn't know. Go through your list and find the capital city of each country and which continent it is in.
7	Challenge your family on https://www.geoguessr.com/