



HILL WEST
Primary

FOUR OAKS

Home Learning Pack

Year 5

Spring Term Week 9



Home Learning Links

Oak National Academy

Oak National Academy is an online classroom and resource hub. It provides high-quality video lessons and resources to support teachers, parents and pupils.

www.thenational.academy

BBC Bitesize

With BBC Bitesize it is easy to keep learning at home. You can access regular daily lessons in English, maths and other core subjects.

<https://www.bbc.co.uk/bitesize>

World Book Online

World Book online have just made their fabulous collection of over 3,000 e-books and audiobooks available for free for children to access at home. They have books suitable for all ages. Click on the following link to access them.

<https://worldbook.kitaboo.com/reader/worldbook/index.html?usertoken=Mjk5MzQ6MTpJUjA5MjAxNjoyOmNsaWVudDE2OTc6MTY5NzoyMjE2Mjg4OjE6MTU4NDM4MDEzMzA2Mjp1cw%3D%3D>

Read Works.org

Read Works offers access to 3000+ comprehension for all age groups. Just sign up for a free account to access fantastic texts.

<https://www.readworks.org/>

Tutortastic

An online platform with tutorials and videos for home learning.

<https://www.tutortastic.co.uk/blog/homelearning>

Education Quizzes

A series of short quizzes for children to complete related to the National Curriculum subjects. Just select KS1 for Reception, Year 1 & Year 2 and select KS2 for Years 3-6.

<https://www.educationquizzes.com/ks1/>

Top Marks

A range of activities here but especially good interactive activities for maths.

<https://www.topmarks.co.uk/>

Classroom Secrets

Classroom Secrets Kids is offering free access to everyone until the end of April 2020. The platform is aimed at primary aged children and covers subjects such as maths, reading, grammar and spelling. The platform is really child-friendly so that they're able to access it on their own. There are a load of games and interactive activities from phonics to SATs

<https://kids.classroomsecrets.co.uk/>

National Geographic

National Geographic is a great platform for learning and it's totally free. There are online games, resources and competitions, too.

<https://www.natgeokids.com/uk/teacher-category/primary-resources/>

Reading Eggspress

Reading Eggspress has lots of reading activities including comprehension and retrieval questions to have a go at. Your child's Username and Password should be written in his Homework Book.

We have been learning about division this week, mostly looking in-depth at partitioning and we will transition into using the short method for division. Here are some great maths games to play on Laptops or iPads.

<https://www.topmarks.co.uk/Search.aspx?q=division>

Times Tables Rockstars

This is a great times tables game, practice all of the tables up to 12 x 12. Log- in should be in Homework book/ Reading diary.

<https://ttrackstars.com/>

Handwriting

Please spend time each day practising the 'al' join as modelled below.

Remember:

- To hold your pencil/pen correctly.
- To sit on a chair and a desk with a straight back whilst practising your handwriting.

Practise writing the following lines, ensuring that all joins within the words are carefully followed.

1908

America

1920

Britain

Monday English

Read chapter 6 or use a YouTube video of a reading.

6:00am

Dear Diary,

It's finally arrived! The day I've waited for all my life! I'm 12! Dad said I would be old enough to go hunting with him when I was 12! The sun is shining; the wind is still – a perfect day for hunting. My body is shaking with excitement! I will do my jobs as quick as the wind this morning! Talk to you later my dear friend.

10:00pm

What a day! It's been like a dream! I'm so tired, but, my friend, I need to tell you all about my day before I go to sleep, I never want to forget anything about today, ever! I feel warm and fuzzy all over, just remembering today. This has been the best day, ever!

I didn't need to be woken by mum this morning to do my jobs, I was already awake! I pulled on my long sleeve tunic and baggy trousers so quickly, I fell over! I'd only put both legs down the same trouser leg!

Anyway, both mum and dad were surprised to see me up so early. Dad had made me a new wooden sword so that I could practice fighting. Maybe one day I can be a fierce soldier like dad.

This morning started like every other morning. After getting dressed (twice so my trousers were on right), I went to the dark forest to collect wood for mum to make a fire to cook

breakfast. After that, I went to search for eggs. Those stupid hens lay their eggs all over the place. it's like a treasure hunt! I'm not sure if I found them all, but I had enough for breakfast at least.

| | |
|---|--|
| included an introduction to set the scene and create atmosphere | |
| used paragraphs to organise the events | |
| written in the past tense | |
| 1 st person | |
| talked about important events | |
| talked about feelings, reactions and opinions from the writers point of view | |
| used high-level vocabulary to describe the places where the events take place | |

Give each feature a colour.

Find as many examples of each feature in the diary entry as you can.

- Bronze: 1-2 features
- Silver: 2-4 features
- Gold: 4+ features

Challenge: Who wrote the diary? Use the vocabulary and clues in the text to support your reasoning.

Monday Maths

1

What is $\frac{1}{2}$ of 52?

2

What is $\frac{2}{3}$ of 90?

3

What is 1.32×320 ?

4

Use the bus stop method to determine what $360 \div 5 =$

Misconception: Mindy thinks $\frac{1}{2}$ of 79 is 39. Is she correct? Explain your answer.

1. In a school of 240 pupils, $\frac{1}{3}$ take packed lunches, and the rest have school dinners. How many have school dinners?
2. School dinners cost £2.28 per child per day. How much does it cost a child for one week's dinners?
3. There are 190 days in a school year. How many weeks of 5 days is this?

Read each problem in turn and discuss *what* calculation needs to be done to solve the problem.

Write - *but don't solve* - the necessary calculation on your whiteboards.



It might help to represent the problem with a bar model diagram...

| 240 pupils | | |
|--------------|---------------|---------------|
| packed lunch | school dinner | school dinner |

A third of the class are going to work out the answer to each problem. Don't forget write the units, i.e. children, pounds, weeks.



1. There are 210 children in a school. There are 7 classes with the same number of children in each class. How many are in each class?
2. School dinners cost £2.25 per child per day. How much does it cost a child for one week of dinners?
3. Out of 148 children having school dinners, $\frac{1}{2}$ chose pasta, $\frac{1}{4}$ chose jacket potatoes and the rest chose curry. How many children chose curry?
4. The area of each classroom is 42m^2 . What is the total area of all 7 classrooms?
5. Of the 120 children in KS2, $\frac{3}{4}$ have got their 25m swimming badge. How many have yet to swim far enough to earn their badge?
6. Children are in school $6\frac{1}{4}$ hours each day. How many hours are they in school during one week of five days?
7. A sponsored spell has raised £280 for wet play games. This will be split evenly between the 7 classes. How much will each class get to spend?

Problem solving and reasoning questions

- Write three fractions equivalent to $\frac{3}{5}$.
- Look at the pattern in the denominators.
- Then write three fractions equivalent to $\frac{2}{3}$ and do the same.
- What can you predict about the pattern in the denominators of fractions equivalent to $\frac{5}{6}$?

Write the missing numbers to make each number sentence true.

$$\begin{array}{ccc} ?/ > 7/ & ?/ = 5/ & 4/ < 5/ \\ 6 & 12 & 6 \quad ? \quad ? \quad ? \end{array}$$

Draw a bar diagram to represent each problem.

- | | | |
|-------------------------|--------------------------|---------------------------|
| i. $\frac{1}{3}$ of 153 | ii. $\frac{4}{6}$ of 612 | iii. $\frac{7}{12}$ of 72 |
|-------------------------|--------------------------|---------------------------|

Now find each answer.

Find $\frac{3}{5}$ of each of ...

(a) 105 (b) 205 (c) 305

Use the pattern to predict the answer to $\frac{3}{5}$ of 405.

Check your answer.

Use your phonics knowledge to highlight French phonics and work out how to say the words for family members. Check with google or similar online translation.

La famille

| | |
|--------------------|------------------|
| un frère | a brother |
| une sœur | a sister |
| un père | a father |
| une mère | a mother |
| les parents | parents |
| une grand-mère | a grandmother |
| un grand-père | a grandfather |
| des jumeaux | twins |
| un jumeau | a twin brother |
| une jumelle | a twin sister |
| (une) fille unique | an only daughter |
| (un) fils unique | an only son |
| un demi-frère | a half-brother |
| une demi-sœur | a half-sister |
| un demi-frère | a step-brother |
| une demi-sœur | a step-sister |
| un beau-père | a step-father |
| une belle-mère | a step-mother |

La famille

A Write in the French family words in the correct boxes.

Don't copy. Look, cover, write and check.

1. father

2. mother

3. parents

4. brother

5. sister

6. family

7. grandfather

8. grandmother

la famille

le grand-père

la mère

la sœur

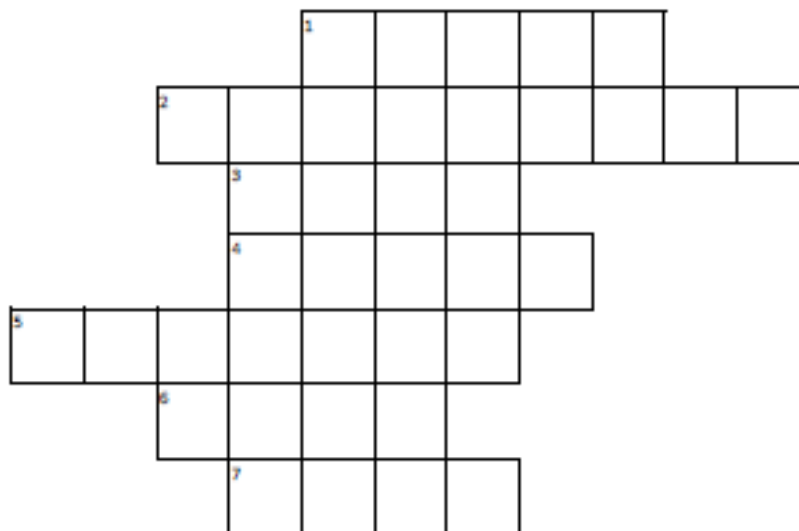
le frère

le père

les parents

la grand-mère

B Complete the grid with the French words.



1. brother

2. grandfather

3. mother

4. daughter

5. twin sister

6. son

7. father

Tuesday English

Read Chapter 7 - Kensuke's Kingdom by Michael Morpurgo.

Can you identify on the map where Michael washed ashore?

Can you identify on the map where Michael spent the night?

Where did Michael first meet Kensuke?

島の地図

- X My first landing place
- ⊙ The cave where I spent my first night
- Tracks
- ⊙ Where Kensuke kept watching





What does Michael see?

How is Michael feeling?



What does Michael see?

How is Michael feeling?

Stick the picture onto the middle of your page

Annotate the text in one colour with descriptions of the setting.

Annotate the text in another colour with Michael's thoughts and feelings.

Bronze: 5 annotations

Silver: 7 annotations

Gold: 8+ annotations

Tuesday Maths

1

How many 1s go into 100?

2

How many 20s go into 100?

3

What is $\frac{1}{4}$ of 100?

4

If I had a bar model and I wanted to separate it into fifths, how many sections do I need to split it into?

Misconception: Jasper says that $\frac{1}{3}$ is bigger than $\frac{1}{4}$. Is he correct? Explain your answer.

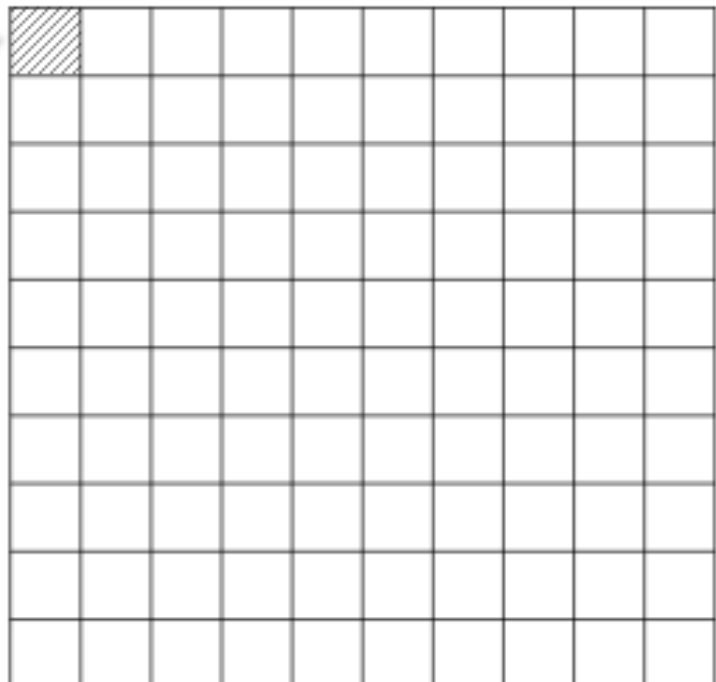
What fraction of the big square is 1 little square?

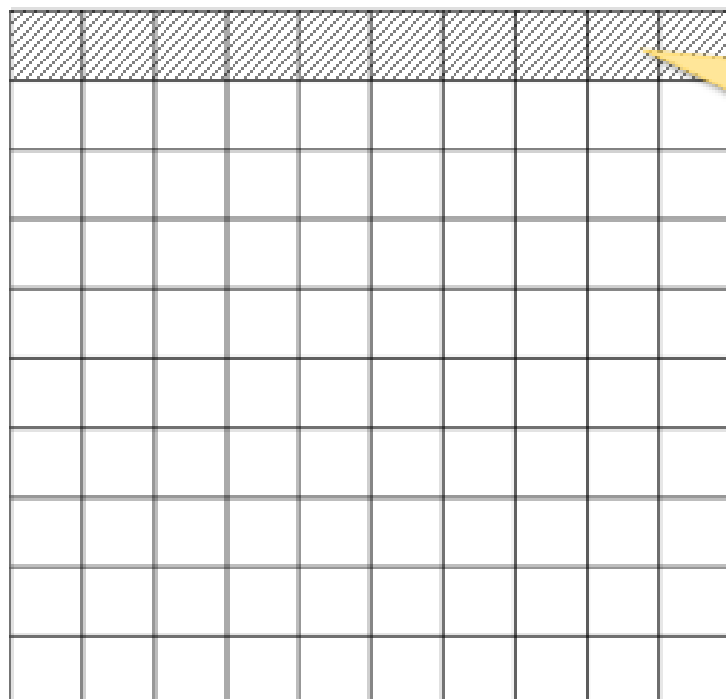
How can we write this?

Can we write this in another way?



$$\frac{1}{100} = 0.01$$

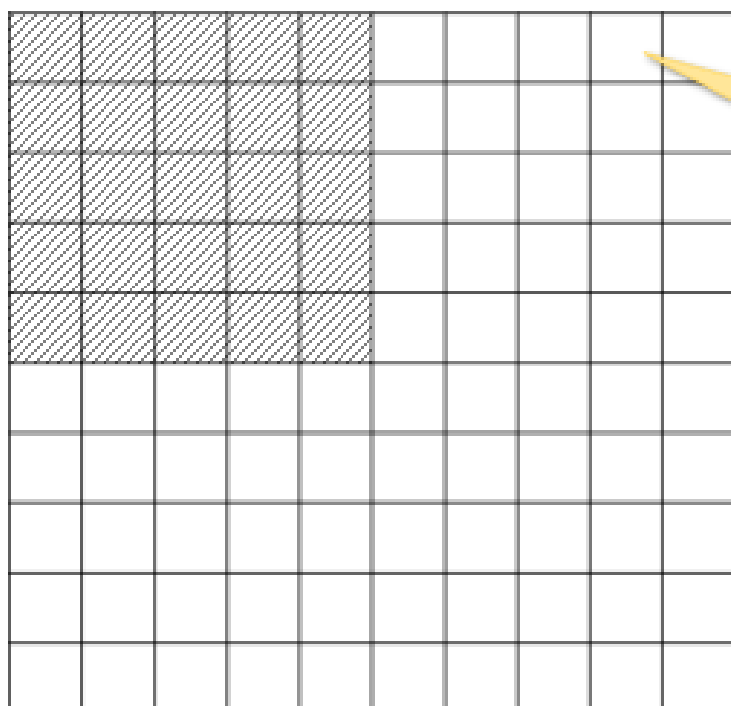




What fraction is shaded?
 What fraction is this equivalent to?
 How can we write this as a decimal fraction?



$$\frac{1}{10} = \frac{10}{100} = 0.1$$



What fraction is shaded?
 Any other fraction?
 How can we write this as a decimal fraction?

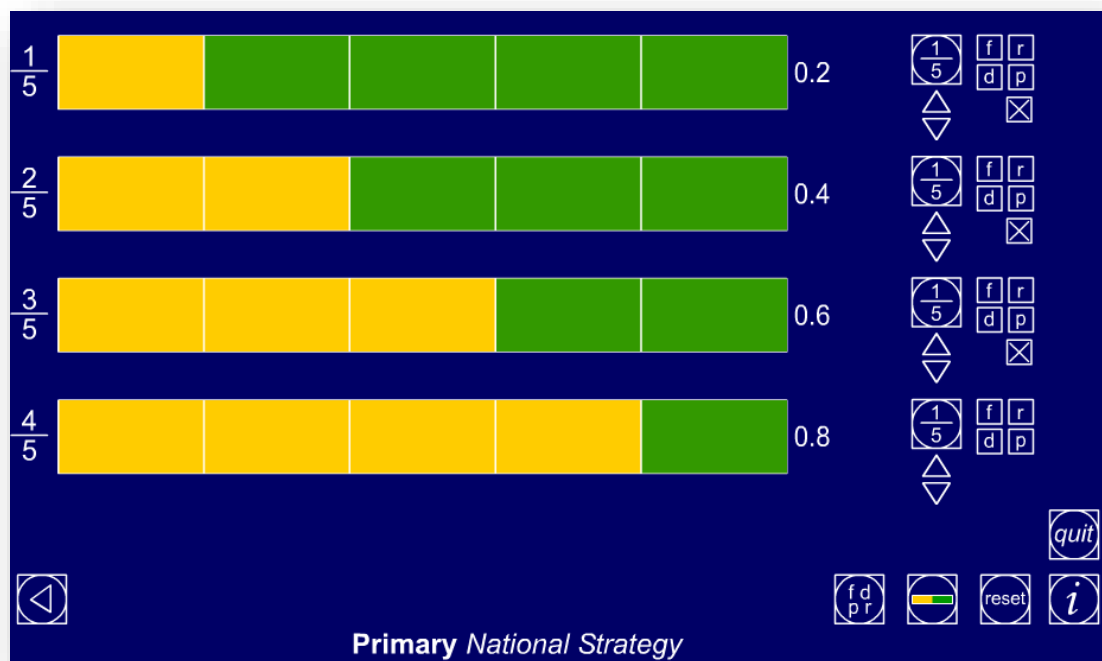
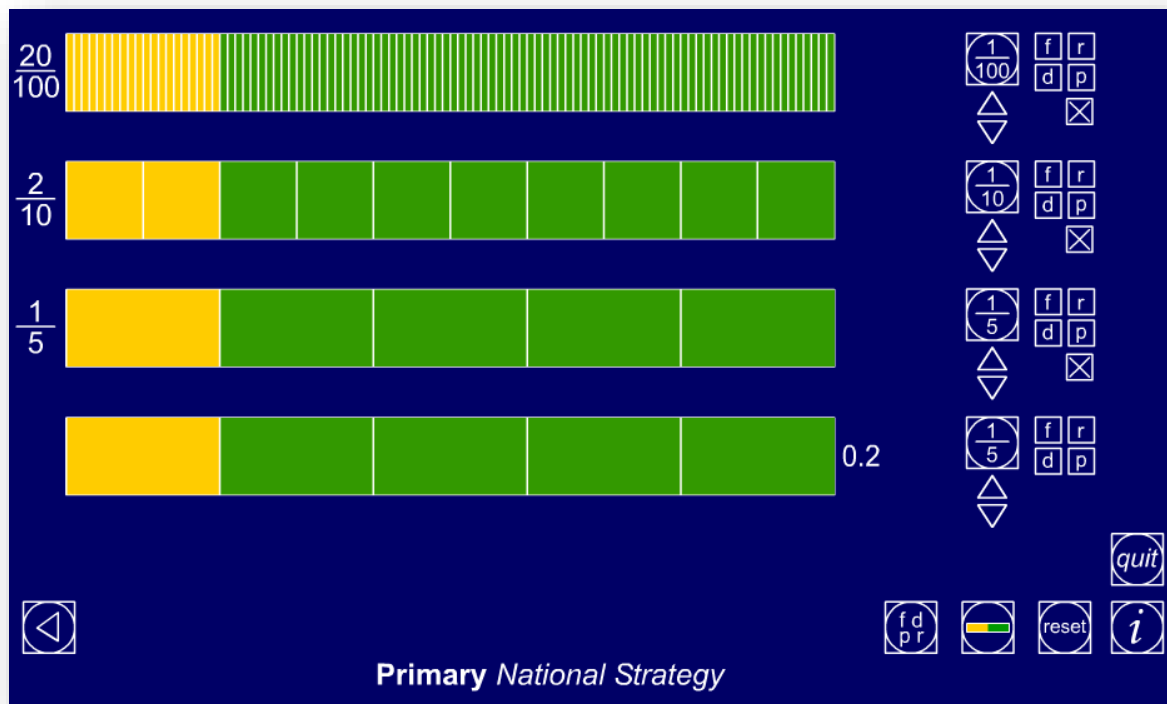


$$\frac{25}{100} = \frac{1}{4} = 0.25$$

What fraction of the grid is NOT shaded?
 What decimal is equivalent to $\frac{3}{4}$?



$$\frac{3}{4} = \frac{75}{100} = 0.75$$



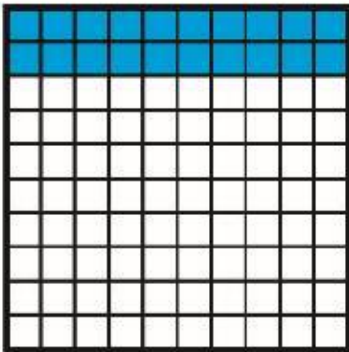
Hundredths

Sheet 2

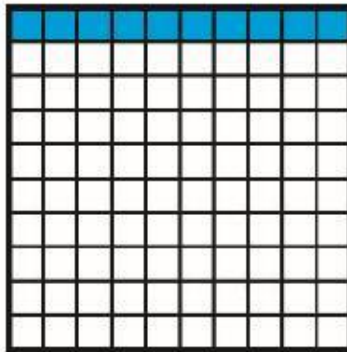
Write as many equivalent fractions and decimals as you can to go with each 100 square.

$$0.2 = \frac{\bigcirc}{100} = \frac{1}{5}$$

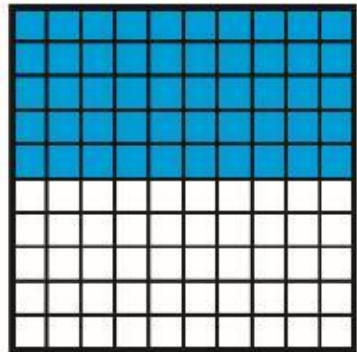
1



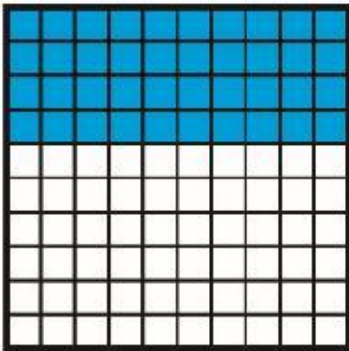
2



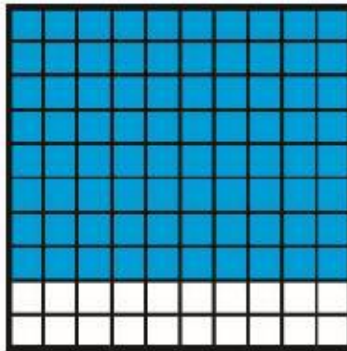
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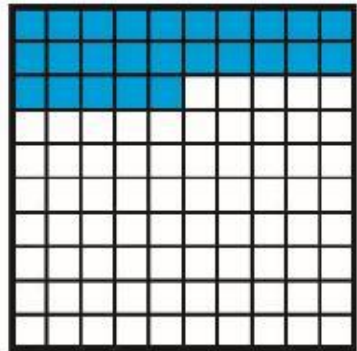
4



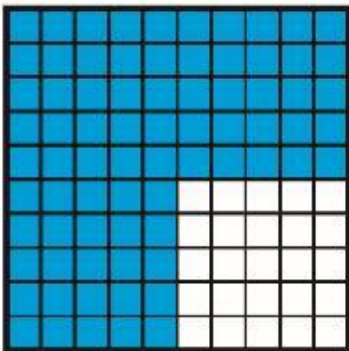
5



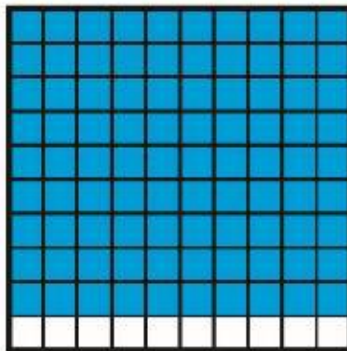
6



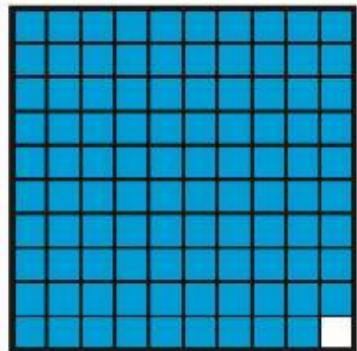
7



8



9



Write the missing decimal numbers to make each sentence true.

$$\square = 4\frac{1}{2}$$

$$\square = 5\frac{3}{4}$$

$$\frac{13}{100} > \square$$

$$\frac{7}{10} < \square$$

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

Tuesday DT

This half-term, you are going to create a track for a marble.

The track will be made up of:

- Cardboard and cardboard tubing
- Various heights
- Tracks for the marble to travel on
- Twists and turns while the marble is in transit.

The track must stand up independently

The marble must be in motion while it is on the track

There may be a time limit for the marble to travel from the start to the finish of the track.

The Journey of the Marble



What makes a good marble run?



A good marble run allows the marble to travel slowly from the top to the bottom of the run. When making a marble run, designers try to make the journey as long as possible.



The Journey of the Marble



This marble run includes a 'bridge' between 2 towers.

Where do you think the marble starts?

Where will it end up?

In which part of the run does the marble travel the quickest?

Where in the run is it travelling slowest?

Joining



The ends of the cardboard tube are shaped and small cuts are made to help the tube to fan out and accurately fit the other tube.

A small, thin half tub catches the marble and directs it down the bridge.



Joining



1. Use your diagram to create 2 base columns for your track. The Bases must:

- Be free-standing structures
- Be made only of cardboard/paper materials

2. Once your base columns are constructed, review your design and make any modifications in another colour.

- Does your base look like your design?
- What additions did you make to your construction?

3. Create a bridge that travels between your 2 towers. It must include:

- 2 vertical towers
- 1 bridge that joins the 2 towers
- Joins that are strong, tidy and allow the marble to run

•

Wednesday Maths

1

What is 8×1 ?

2

What are 6 and 8 both divisible by?

3

What is 10 divided by 8?

4

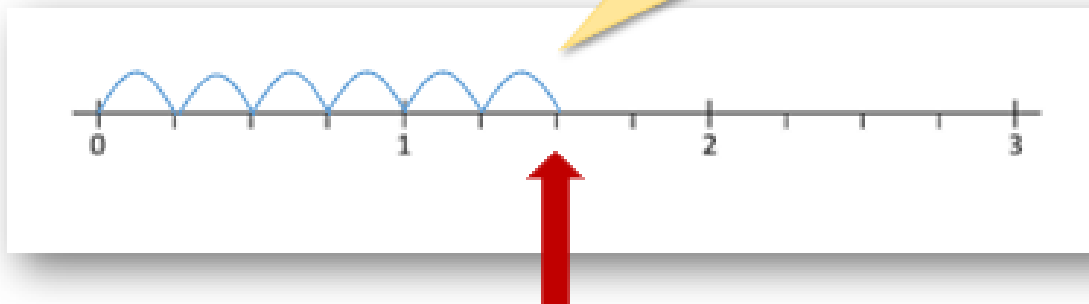
What is 9 divided by 4?

Misconception:

James says that the factors of 9 are 1 and 9. Is he correct? Explain your answer.

$$6 \times \frac{1}{4} = \frac{6}{4} = \frac{1^2}{4} = 1\frac{1}{2}$$

Six lots of one quarter is six quarters!
How else can we write this? ?



?

$$9 \times \frac{1}{4} = 2\frac{1}{4}$$

Use the number line to help work out the answer and write it as a mixed number.



Multiplying unit fractions by whole numbers

Sheet 2

Multiply each of these fractions by 4. Simplify your answers where possible. Which do you think will give answers greater than 1? How do you know? If the answer is greater than 1, write it as a mixed number.

$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{5} \quad \frac{1}{7}$$

Multiply each of these fractions by 3. Simplify your answers where possible. Which do you think will give answers greater than 1?

$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{6} \quad \frac{1}{8}$$

Multiply each of these fractions by 5. Simplify your answers where possible. Which do you think will give answers greater than 1?

$$\frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{5} \quad \frac{1}{6} \quad \frac{1}{10}$$

Multiply each of these fractions by 8. Simplify your answers where possible. Which do you think will give answers greater than 1?

$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{5} \quad \frac{1}{6}$$

Draw a number line from 0 to 5.

Mark quarters: $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $1\frac{1}{4}$ etc.

Draw the hops to show 7 lots of $\frac{1}{4}$

Draw the hops to show 5 lots of $\frac{3}{4}$

Five children each eat $\frac{4}{5}$ of their lunches.

How many lunches did they eat altogether?

Wednesday English

Read Chapter 8 - Kensuke's Kingdom (or locate reading on YouTube)

MAKING

I could see at once that he was very agitated, his chin trembling, his heavily hooded eyes accusing and angry. "*Dameda! Dameda!*" he screeched at me. This whole body was shaking with fury. I backed away as he scuttled up the beach towards me, gesticulating wildly with his stick, and haranguing me as he came. Ancient and skeletal he may have been, but he was moving fast, running almost. "*Dameda! Dameda!*" I had no idea what he was saying. It sounded Chinese or Japanese, maybe.

I was about to turn and run when Stella, who, strangely, had not barked at him at all, suddenly left my side and went bounding off towards him. Her hackles were not up. She was not growling. To my astonishment she greeted him like a long lost friend.

He was no more than a few feet away from me when he stopped. We stood looking at each other in silence for a few moments. He was leaning on his stick, trying to catch his breath. "Americajin? Americajin? American? *Eikokujin*? British?"

"Yes," I said, relieved to have understood something at last. "English, I'm English."

- This is the first time that Michael and Kensuke meet face to face. How would you describe their encounter?
- What tells you how Kensuke is feeling? Pick out three words that make this clear.
- Why do Stella and Michael react so differently?

Identify the 5 key events that occur between Michael arriving on the island and seeing the tanker-ship. Consider:

Michael exploring the island
 Meeting Kensuke
 Waking up cold and hungry
 Finding the fish
 Hearing the orang-utans howling
 Finding water
 Being watched
 Kensuke's laws
 Making fire

| | |
|----|------------------------------|
| 1. | Michael washes ashore |
| 2. | |
| 3. | |
| 4. | |
| 5. | Michael sees the tanker ship |

Main Activity

Using the key events we have chosen:

Copy each event into your books.

2. Write down what Michael is thinking and feeling.

3. Write down what Michael is seeing – setting description

Bronze: 1-2 sentences

Silver: 3-4 sentences

Gold: 4+ sentences

Challenge: How does Michael know to look for water, shelter and food?

| | |
|----|------------------------------|
| 1. | Michael washes ashore |
| 2. | |
| 3. | |
| 4. | |
| 5. | Michael sees the tanker ship |

Model:

Michael washes up on shore

- Where am I? I'm soaking wet and exhausted. Where is the boat? Where's mum and dad? I hope they're ok! I've got to find them! Is that sand? I see trees in the distance – a huge forest. Am I on a beach? There's white sand everywhere. I'm so scared. I don't know where I am.
- Challenge: I'm so thirsty. I know I can't drink ocean water – it's too salty. There are animals here; they must drink something! I wonder if I can find some water.

Wednesday Music

Research Mozart and find out 10 facts about him.

Tchaikovsky - Waltz from Sleeping Beauty

[Waltz - Sleeping Beauty](#)

Mozart - The Magic Flute

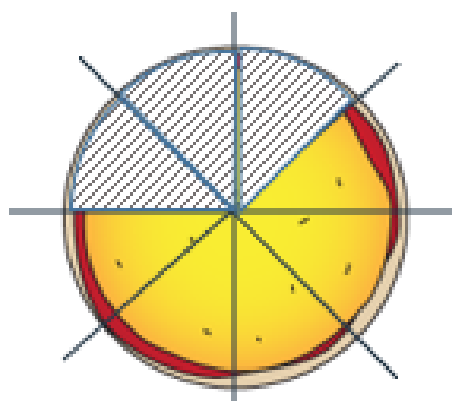
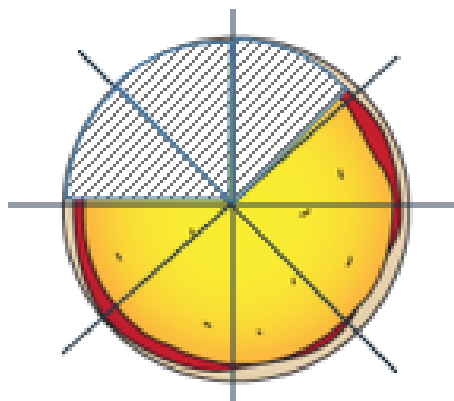
[The Magic Flute](#)

1. Listen to the two pieces of music.
2. Identify the instruments used in each piece.
3. What is similar in each piece of music. What is different?

Thursday Maths

| | | | |
|---|---|---|---|
| 1 | What is another way of multiplying something by 2? | 2 | What is $6 \times \frac{1}{8}$? |
| 3 | Which number of a fraction is the denominator? $\frac{1}{2}$ | 4 | Pick a fraction with a denominator below 10 and above 2. Draw a bar model for it. |

Misconception:
Donna says that $2 \times \frac{3}{5} = \frac{3}{10}$. Is she correct? Explain your answer.

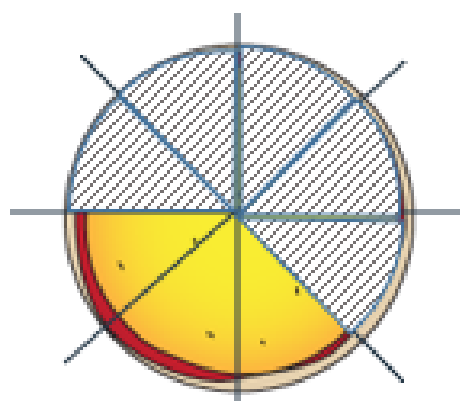
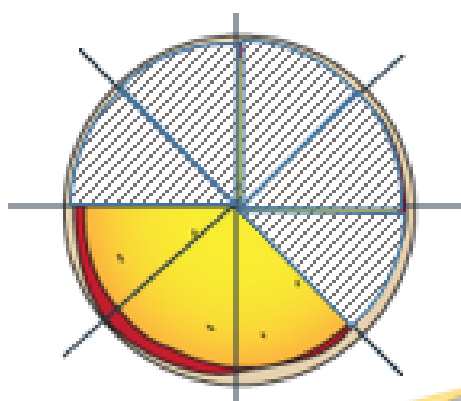
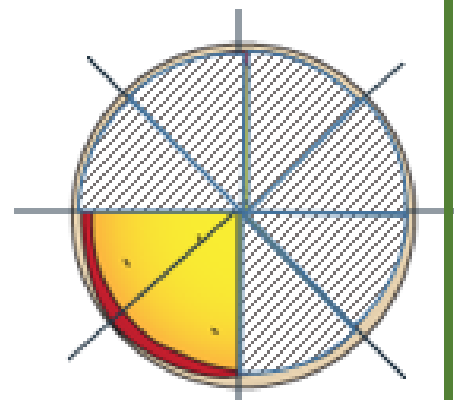


Two children are eating pizza. They are copycats, if one eats $\frac{3}{8}$ of a pizza, so does the other!

What is double $\frac{3}{8}$? ?

How can we simplify $\frac{6}{8}$? ?

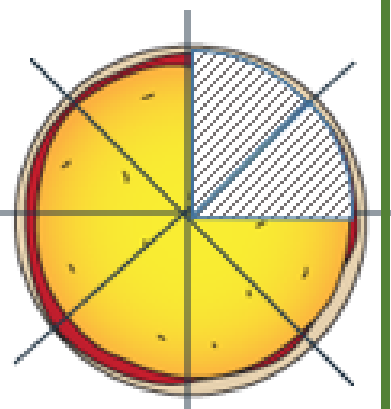
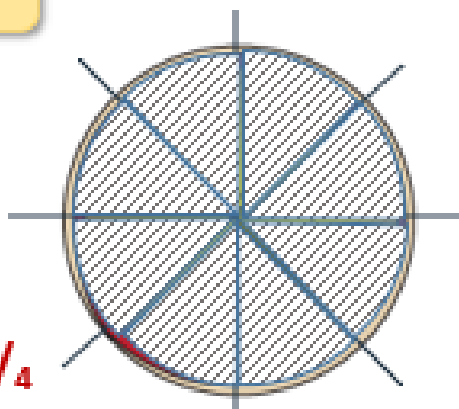
$$\frac{6}{8} = \frac{3}{4}$$



? What if both children ate $\frac{5}{8}$ of a pizza each?

How else can we write $\frac{10}{8}$? ?

$$\text{Double } \frac{5}{8} = \frac{10}{8} = 1\frac{1}{4}$$



Fraction frenzy

1. Work with a partner to multiply fractions by whole numbers to complete this grid. Do not simplify the fractions, but do convert improper fractions to mixed numbers.

| x | $\frac{1}{2}$ | $\frac{2}{3}$ | $\frac{3}{4}$ | $\frac{4}{5}$ | $\frac{5}{6}$ |
|---|---------------|---------------|---------------|---------------|---------------|
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |

Can you see any shortcuts to complete some rows of the grid?

2. Now look at the grid and see if you can see any patterns.
Can you see a pattern in one of the diagonals?
Can you explain why this pattern exists?
 3. Look at the answers in the shaded squares.
What do you notice about the difference between the numerators and the denominators?
 4. What patterns can you see in the columns?
 5. Can you see any other patterns?
-

Multiplying non-unit fractions by whole numbers

Sheet 1

How many medals can you win?



Double each of these fractions. Simplify your answers where possible. Which do you think will give answers greater than 1? Write answers greater than 1 as mixed numbers.

$\frac{2}{5}$

$\frac{2}{3}$

$\frac{3}{4}$

$\frac{3}{8}$



Multiply each of these fractions by 3. Simplify your answers where possible.

$\frac{3}{4}$

$\frac{2}{3}$

$\frac{3}{7}$

$\frac{5}{6}$



Multiply each of these fractions by 4. Simplify your answers where possible.

$\frac{2}{3}$

$\frac{3}{4}$

$\frac{3}{8}$

$\frac{5}{7}$



Multiply each of these fractions by 5. Simplify your answers where possible.

$\frac{2}{5}$

$\frac{2}{7}$

$\frac{3}{10}$

$\frac{5}{8}$

Problem solving and reasoning questions

Write the missing decimal numbers to make each sentence true.

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

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

$$\frac{13}{100} >$$

$$\frac{7}{10} <$$

$$= \frac{2}{5}$$

Draw a number line from 0 to 5.

Mark all quarters: $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $1\frac{1}{4}$ etc.

Draw the hops to show 7 lots of $\frac{1}{4}$.

Draw the hops to show 5 lots of $\frac{3}{4}$.

Five children each eat $\frac{4}{5}$ of their lunches.

How many lunches did they eat altogether?

True or false?

- $6 \times \frac{3}{4} = 4\frac{1}{2}$
- $12 \times \frac{1}{5} = 25$
- $9 \times \frac{2}{3} = 6$
- $7 \times \frac{1}{4} < 2$

Thursday English

Read Chapter 9 - Kensuke's Kingdom (or locate reading on YouTube)

Dear Diary,

This has been an intense day. Our boat hit a storm and I was thrown off. I woke up here. A desert island. Alone except for Stella – thank goodness she's alright. I'm surrounded by glittering, white sand and tall, dense trees. So far, there has been no sign of life. Except for the constant howling I hear in the distance. I'm tired. I'm lonely. I'm scared. Stella is a wonderful companion, but I keep thinking about mum and dad. Are they ok? Will I ever see them again? And this

island! Will I ever see home again? I'm thirsty. I know I can't drink the sea-water; that would dehydrate me. There are animals here. They must drink something. I'm not going to find water on the beach. I need to make my way into the forest...

Write the introduction to your diary. The introduction must:

- Introduce the setting
- Describe the setting – what he can see, hear, etc.
- Begin when Michael wakes up on the beach

Your paragraph must be:

Bronze: 3-4 sentences

Silver: 4-6 sentences

Gold: 6+ sentences

What has been decided as a class?

In 1 paragraph, write the next event.

Your paragraph must include:

- Michael's thoughts and feelings
- The key moments that happen during the event
- Reactions during these key moments in the event.

Challenge: Throughout the event, what is Michael thinking and feeling about his mum and dad?

Thursday Science

Separating mixtures of substances from www.bbc.co.uk

Equipment:

- Mixtures to separate:
 - Salty water
 - Flour, rice and pasta
 - Filter coffee in water
 - Iron & brass paper clips
- Sieves
- Filters
- Magnets
- Hairdryer/candles
- Water

Investigation prompt questions:

Sieving

- *Think about the three solids - how many sieves and grades of sieve might you need?*
- *What order will you sieve the mixture in?*

Using magnets

- *How will a magnet separate two materials that are both metallic?*
- *Which metals attracted to magnets?*

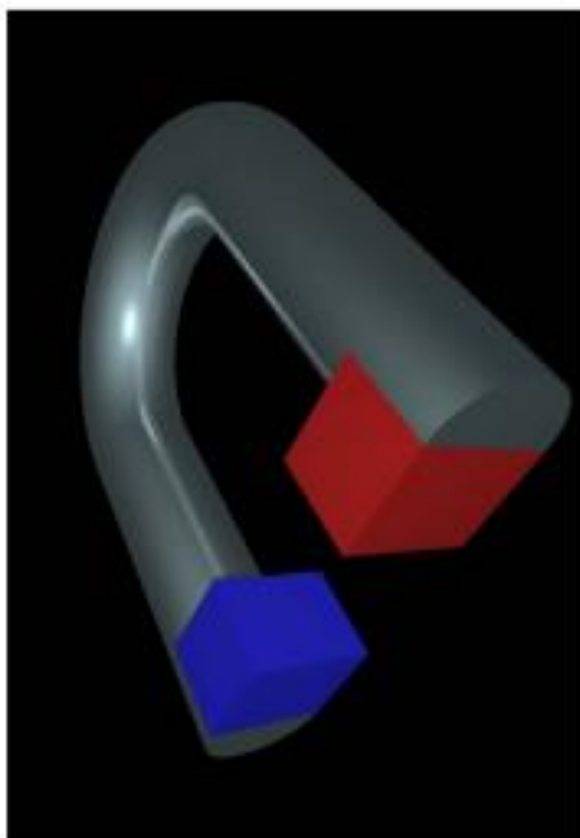
Filtering

- How many different types of filter could you use? (e.g. cotton wool, piece of muslin, filter paper)
- Which filter works the best (which water is the clearest?)?
- If this was muddy water, would it now be safe to drink (if it is clear?)? Will tiny microscopic bacteria in the water have been removed by the filter, or are they too small?

Evaporation

- Can you set up an investigation to find out which of the following liquids are pure and which have material dissolved in them (sugar water, tap water, sea water, puddle water, coloured inks, distilled water, mineral water)?
- Where could you leave liquids (it will need to be a warm place!) to create the best conditions for evaporation without using a hairdryer or candle?

What other mixtures/solutions do you think you could separate using one of these methods?



Friday Maths

- | | |
|--|--|
| 1 What is a multiple of a number? | 2 What is a factor of a number? |
| 3 What is a multiple of 7? | 4 What are the factors of 30? |

Misconception:

Selena says that the factors of 40 are 1, 2, 4, 8 and 10. Is she correct? Explain your answer.

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

Write a list of the multiples of 2 up to 20.
Then write a list of the multiples of 3 up to 21.

Which numbers are in both lists?
These are the common multiples of 2 and 3 – shaded pink and yellow on the grid.

Which of these common multiples is the lowest?

Six is the lowest common multiple of 2 and 3.

32

16

24

List some numbers which are factors of all three of these numbers.

Which is the biggest number that goes exactly into all these numbers? We call this the highest common factor.

1

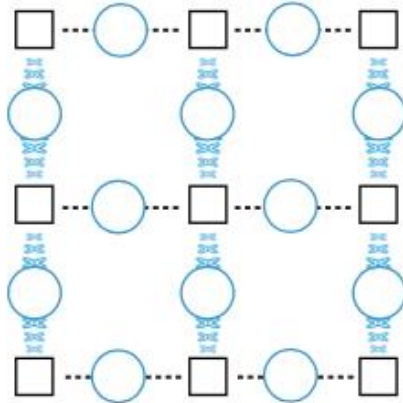
2

4

8

LCM squares

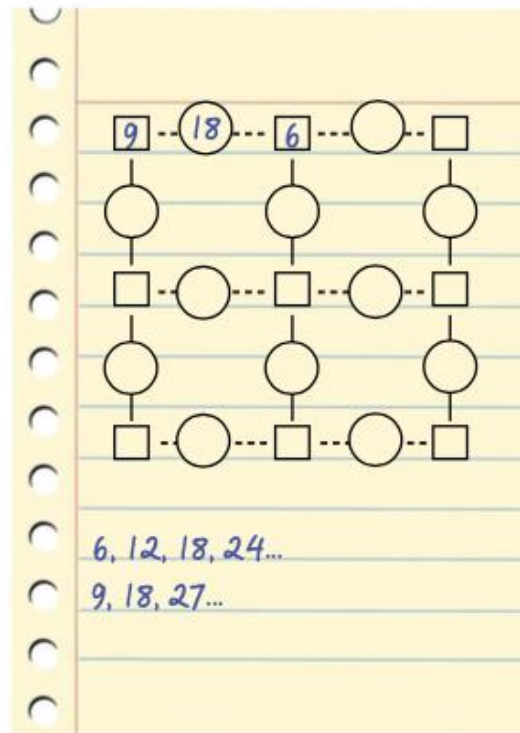
1. Use this grid.



- Write the numbers 2, 3, 4, 5, 6, 8, 9, 10 and 12 in the squares, one number in each square.
- In the circles between each pair of squares, write the LCM (lowest common multiple) of the two numbers.
- Add all your circled numbers, first adding pairs and crossing them out, and then adding pairs of those totals and finally adding the last three numbers.
- Start with a new grid.
- Re-arrange your numbers and repeat.

FIND THE SMALLEST TOTAL POSSIBLE!

What do you notice? Are some numbers used more than others are?
Which numbers are used least? Where is it best to put the 12?



Finding common factors and multiples

Sheet 2

Find the highest common factor of these sets of numbers:

1. 24, 36 and 48
2. 14, 28 and 35
3. 16, 20 and 32
4. 18, 24 and 27
5. 12, 24 and 33

Find the lowest common multiple of these sets of numbers:

1. 2, 3, 5
2. 2, 4, 5
3. 3, 6, 9
4. 3, 5, 6
5. 4, 6, 8

Is the lowest common multiple of 6 and 4 smaller than the highest common factor of 30 and 45?

- Write common factors of 24 and 48.
 - Write common multiples of 3 and 5 up to 60.
 - Are any numbers in both sets?
-

Friday English

Read Chapter 10 - Kensuke's Kingdom (or locate reading on YouTube)

I saw a ship! I real ship! In the ocean! I can't believe my luck, I'm so excited! Kensuke is not nearly as excited as I am. What is wrong with

him? I had to get them to see me! I worked so hard. I built a fire. I huge fire that could be seen by the ship. It was so big, it could have been seen form space! Now, I have to wait. I wonder if they saw it... This could mean that I can get off this island. I can see mum and dad again...

What has been decided as a class?




1 paragraph for each event.

Your paragraph must include:

- Michael's thoughts and feelings
- The key moments that happen during the event
- Reactions during these key moments in the event.

Challenge: Throughout the event, what is Michael thinking and feeling about his mum and dad?

Challenge: Using the editing grid, read through your diary and tick whether you have included the following features.

| |  |  |  |
|---|---|---|---|
| included an introduction to set the scene and create atmosphere | | | |
| used paragraphs to organise the events | | | |
| written in the past tense | | | |
| 1 st person | | | |
| talked about important events | | | |
| talked about feelings, reactions and opinions from the writers point of view | | | |
| used high-level vocabulary to describe the places where the events take place | | | |