Kestrels Home Learning Wednesday 24th June
Weekly tasks to do when possible:

Grammar: Create some of your own adverbs and get someone to act it out! Can you get them to act how you wanted them to? E.g. To run jellily.
Spelling: Practise writing words with the suffixes –ous and -ious and then cover them and rewrite them, look at the slides for extra activities.
Arithmetic: Rounding and estimating- see the following slides for practice.
Please make sure you are reading daily, for at least 20 minutes.

Mexico Activities for the week!

I have suggested some activities below which are suitable for a Year 5/6 class but can also be done by younger children with some help.
Choose the activities you would most like to do and present them creatively! You can present your work however you like, for example, in the form of artwork, a scrapbook, a PowerPoint.
Our weekly focus for this week is Festivals.
Please see the next slide for the activities.

Suggested activities for the week:

- Research different Mexican festivals! Find out where they happen and why.
- Find a festival which interests you (some are listed below) and study the history of it. Is there a traditional story behind the celebration? Is it similar to any festivals we have in the UK?
- Consider the religions of Mexico. What are the main religions? Do they celebrate the same things that we do?
- Lots of festivals have traditional songs. Can you find any and have a listen? Do you enjoy them? How is the music made? Does it sounds like music we have at our festivals in the UK? Why/why not?
- You could look up some of the foods associated with the festivals and try to recreate them.
- Festivals you could consider:
    - Day of the Dead
    - Carnaval
    - Cinco de Mayo
    - Independence day
    - Las Posadas.

1) Spelling Rule: Explanation

Where **'ous'** is added to a root word, normal rules for adding vowel suffixes apply (see **Rule 21**).

*E.g. **'e'** at the end of a root word is often removed.*

The **'ee'** sound before **'ous'** is often spelt **'i'**.

fam**ous** enorm**ous** humor**ous**

ser**i**ous glor**i**ous prev**i**ous

NOTE: If the root word ends in **'our'**, this is usually changed to **'or'** when **'ous'** is added.

Examples

Which words have an obvious root word?

Has the root word changed? How? Why?

poison**ous**	cur**i**ous	gener**ous**
obv**i**ous	vigor**ous**	glamor**ous**
nerv**ous**	continu**ous**	var**i**ous

THINK: Which words had root words ending in **'our'**?

How have they changed when **'ous'** was added?

Practice

Add **'ous'**. **Watch out:** the root word may need to change!

Starter	Challenge 1	Challenge 2
danger	fame	glory
poison	glamour	vigour
vary	nerve	continue
mountain	fury	mystery
hazard	humour	ridicule

THINK: Which other words ending in **'ous'** can you think of that **don't** have an obvious root word?

Further examples- use some of these in some sentences.

‘ous’

famous
dangerous
enormous
numerous
nervous
humorous
continuous
generous
tremendous
glamorous
ridiculous
marvellous
vigorous
jealous

‘ious’

various
serious
previous
obvious
furious
mysterious

Exceptions

Some words with the **‘ee’** sound before **‘ous’** at the end are spelt **‘eous’**.

hideous
courteous
spontaneous

Other exceptions

The **‘e’** at the end of a root word must be kept if the root word ends in a ‘soft’ **‘g’** ***(‘j’ sound)***.

gorgeous
courageous
outrageous

The **‘ious’** ending at the end of **‘religious’** makes sense when linked to the root word **‘religion’**.

Be aware of **‘disastrous’** *(not ‘disasterous’).*

Arithmetic: Estimating answers – using rounding

23.45 + 138.71 + 9.108 =

Let's round these numbers to the nearest whole number, to help us estimate the answer:

23.45 to the nearest ten is 20
138.71 to the nearest ten is 140
9.108 to the **easiest** whole number is 10

Mathematically we would normally round 9.108 down to 9, but for the purposes of estimating we could choose to break this rule, as 10 is an easier number to add.

Our estimate could be 20 + 140 + 10 = 170

Estimating answers – using rounding

345,608 + 541,098 =

Let's round these numbers to the nearest 10,000 to help us estimate the answer.

345,608 to the nearest 10,000 is 350,000
541,098 to the nearest 10,000 is 540,000

Our estimate could be 350,000 + 540,000 = 890,000

Estimating answers – using rounding

3375.5 – (23 x 95)

Let's round these numbers in different ways to help us estimate the answer:

20 x 100 is 2,000
3,400 – 2,000 is 1,200

Our estimate could be 1,200

Can you think of a different way to estimate the answer to this calculation?

Estimating answers – using rounding

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

To carry out a quick mental estimate, I am going to round

3 and $\frac{5}{8}$ to $3\frac{1}{2}$,

since $\frac{5}{8}$ is close to $\frac{4}{8}$, which is **equivalent** to $\frac{1}{2}$

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

Our estimate could be $\mathbf{7\frac{1}{4}}$

Can you think of a different way to estimate the answer to this calculation?

Estimating answers – using rounding

$\frac{5}{6}$ of 4,920

Let's change 4,920 to a number that is a **multiple** of 100, but also **divisible** by 6:

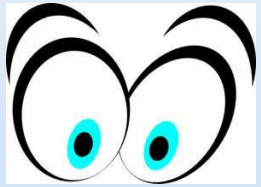
4,800 ÷ 6 = 800

5 x 800 = 4,000

Our estimate could be 4,000

$\frac{5}{6}$ is only $\frac{1}{6}$ away from being a whole, so 4,000 seems like a good estimate.

Now try estimating the answers to these calculations using your rounding skills



34,097 + 26,156 + 135.8 =

15% of 848 =

(58 x 70) – 9.9 =

8,634 x 74 =

$2\frac{1}{5} + 3\frac{3}{10} + 4\frac{1}{2} =$

34,982 x 6 =

Reasoning

Sal says that if your actual answer is close to your estimate, then it must be correct. Mika says that the answer could still be incorrect, even if it is close to the estimate. Who do you agree with?

Explain your answer and give examples.

Maths

L.O: To calculate the mean (average) of a set of data.

Another useful way of interpreting data and being able to understand the information our data is telling us, is to calculate the mean or average of a set of data. **The average** value in a set of numbers is the middle value, calculated by dividing the total of all the values by the number of values. The average of a set of data helps us to see the overall trend in the set of data. For example, to find the average temperature for a particular month, you would take the temperature each day and add these up, dividing the total by the number of days in the month there were. If this were for instance 25°C, this means that most of the temperatures each day were either 25°C or close to this.

Challenge: Once you have collected the temperatures for each day this week, you could also calculate the average of the temperatures this week. How do you think you would do this?

Add the data you have and then divide by how many numbers there are.

L.O: To calculate the mean from a set of data

Example

The marks of five students in a test that had a maximum possible mark of 20 are given below:

15, 20, 10, 15, 15

Find the **mean** of this set of data. 15 + 20 + 10 + 15 + 15 = 75 75 ÷ 5 = 15

Below are the ages of three teachers in year one:

28, 23, 27

Mean =

Below are the results of a spelling test:

8, 12, 11, 10, 9

Mean =

Below are the results of a arithmetic test:

14, 15, 20, 12, 14

Mean =

Below are the amount of students who have packed lunches in year four, five and six:

8, 12, 4

Mean =

Below are the amount of goals scored by Mill Field Primary in the last five games:

5, 8, 10, 5, 7

Mean =

Below are the amount of 'wow' words in five children's Magpie books.:

23, 35, 25, 17 30

Mean =

Below are the scores of a recent fractions test from Mathletics:

14, 8, 12, 10

Mean =

Below are the numbers that Joseph rolled on a 20 sided dice. He rolled it 6 times.

3, 7, 10, 5, 14, 9

Mean =

Below are the heights of five children.

102cm, 123cm, 146cm, 133cm, 111cm

Mean =

Mean – Problem Solving

1. The temperature for UK on a holiday website is found by taking the mean average from 8 different parts of the country. What should they put up if the temperature in the 8 locations are: 12°C 18°C 9°C 12°C 15°C 20°C 21°C 13°C

2. 6 friends are going on holiday and it works out to be £120 each. 1 of them is the birthday boy so his friends decide to cover his cost. How much do all 5 friends need to pay each now?

3. 4 people have the following number of counters: 4, 6, 3, 7. If we were to share the counters equally between them, how many would they get each?

4. Tickets to the cinema cost £6 each. 5 Friends go and they have the following amounts of money each; £3 £8 £6 £4 £3 Do they have enough money between them to go to the cinema? (Show your working)

5. The average (arithmetic mean) of a list of 6 numbers is 20. If we remove one of the numbers, the average of the remaining numbers is 15. What is the number that was removed?

6. The mean weight of a group of seven boys is 56 kg. The individual weights (in kg) of six of them are 52, 57, 55, 60, 59 and 55. Find the weight of the seventh boy.

7. A cricketer has a mean score of 58 runs in nine innings. Find out how many runs are to be scored by him in the tenth innings to raise the mean score to 61.

8. The mean of five numbers is 28. If one of the numbers is excluded, the mean gets reduced by 2. Find the excluded number.

9. The mean weight of a class of 35 students is 45 kg. If the weight of the teacher be included, the mean weight increases by 500 g. Find the weight of the teacher.

10. The average height of 30 boys was calculated to be 150 cm. It was detected later that one value of 165 cm was wrongly copied as 135 cm for the computation of the mean. Find the correct mean.

11. The mean of 16 items was found to be 30. On rechecking, it was found that two items were wrongly taken as 22 and 18 instead of 32 and 28 respectively. Find the correct mean.

12. Timothy's average score on the first 4 tests was 76. On the next 5 tests his average score was 85. What was his average score on all 9 tests?

13. Tracy mowed lawns for 2 hours and earned $7.40 per hour. Then she washed windows for 3 hours and earned $6.50 per hour. What were Tracy's average earnings per hour for all 5 hours?

14. After taking 3 quizzes, your average is 72 out of 100. What must your average be on the 5 quizzes to increase your average to 77?

15. If the average (arithmetic mean) of 8, 11, 25, and p is 15, find 8 + 11 + 25 + p and then find p.

16. A class of 25 students took a science test. 10 students had an average (arithmetic mean) score of 80. The other students had an average score of 60. What is the average score of the whole class?

17. Fifteen accounting majors have an average grade of 90. Seven marketing majors averaged 85, and ten finance majors averaged 93. What is the weighted mean for the 32 students?

18. John drove for 3 hours at a rate of 50 miles per hour and for 2 hours at 60 miles per hour. What was his average speed for the whole journey?

Extension

1. Mr. Myones drives 3 hours at an average speed of 40 miles per hour. Then he drives 2 hours at a speed of 35 miles per hour. What is his average speed for the whole trip?
2. Miss Holton drives 4 hours at an average speed of 30 miles per hour. Then she drives 2 hours at a speed of 45 miles per hour. What is her average speed for the whole trip?
3. A family took 2 hours to drive from City A to City B at a speed of 55 miles per hour. On the way home they took 3 hours at a speed of 40 miles per hour. What was their average speed for the whole trip?

English

L.O. To read to the end of page 35 (up to chapter 18).

Just some reading today!

https://docs.google.com/viewer?a=v&pid=sites&srcid=YWJwbnByLm9yZ3xlbmdsaXNofGd4OjZhMjExYmUwOTlkOTk4MzU

The whole book can be found here!