HILL WEST
Primary
FOUR OAKS

Home Learning Pack
Year 6
Autumn Term Week 2

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=Mjk5MzQ6MTpJUjA5MjAxNjoy OmNsaWVudDE2OTc6MTY5NzoyMjE2Mjg4OjE6MTU4NDM4MDExMzA2Mjp1cw%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.
https://readingeggspress.co.uk/?_ga=2.107706762.961348329.1601363904-660844018.1598947512

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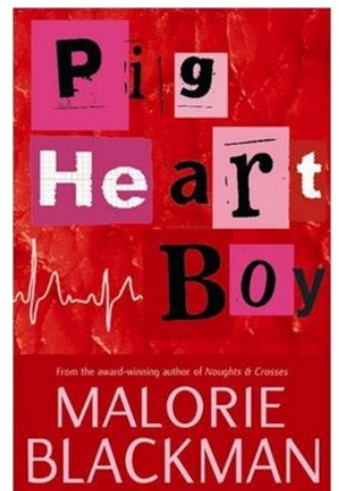https://www.topmarks.co.uk/Search.aspx?q=division

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://ttrockstars.com/

Monday

English

LO: To plan my writing by identifying the audience and purpose of writing

Handwriting: quiet quiet quiet quiet

A letter from Dr Bryce... (Think – Pair – Share)

What do we know about Dr Bryce so far?

What sort of character is he?

How would you respond to his letter?

34 Evergreen Drive

Sandwich

Kent

CT12 5DH

Dear Cameron Joshua Kelsey,

I am writing to you in regards to my recent visit to your home, whereupon we discussed the complicated procedure to implant a pig's heart into your body in place of your current heart.

Having spoken at length with both you and your family I must now decide which of the candidates I have spoken to deserves to be the first to test out my transgenics procedure. The operation is, of course, in its experimental stages, however I am confident that it will enable you to continue living your life as if you had never had heart problems.

Before I am able to make my decision, I need to know more about you and why you, and not the other candidate, deserves receive the honour of taking part in the operation.

I would like to know the following:

- How has your debilitating condition affected your life?
- Why should you be the first to receive this exciting new treatment?
- What would your future be like if the procedure is a success?
- Are you at all scared about the procedure?
- Will you be able to keep this all a secret?

I hope this letter finds you well, I was really intrigued by your story and was really touched by your father reaching out to me for help. I hope that I can be the one to help get your old life back, I hope my ingenious new operation works as I know how important it could be for people in your position in the future. I look forward to your response.

Yours sincerely, Dr Richard Bryce

Dr R Bryce

What key features are used in this letter?

-

-

-

-

-

34 Evergreen Drive

Sandwich

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CT12 5DH

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Yours sincerely, Dr Richard Bryce

Dr R Bryce

What kind of language is used? Why?

Which person is used when writing this letter?

Task 1: Planning your response...

Paragraph 1: Acknowledging Dr Bryce's letter and thanking him.

Paragraph 2:

Paragraph 3:

Paragraph 4:

Paragraph 5:

Task 2: Write your introduction

Remember to use:

- Formal Language
- First Person
- High-level language

Challenge: Can you include a rhetorical question?

Maths

Write in words.	Halfway.
6,040,040	4000 ? 13000

Complete sequence.	Missing number.
842, 882, ⬚, 962, ⬚	12,000 12,500 ?

Jake thinks, to the nearest 1000, 450 must be 1000 because it can't round down to 0. Explain why he's incorrect.

2

Round to ten, a hundred, a thousand, ten thousand, one hundred thousand or a million, as appropriate.

What number is half way between 100 and 200?

So what number is half way between 100,000 and 200,000?

100,000   200,000

Come and mark this number on the line.

Mark a number you think will round to 100,000 as the nearest 100,000; then another you think will round to 200,000 as the nearest 100,000.

Do the rest of you agree?

Work in pairs to think of and write a number which rounds to 140,000 as the nearest 10,000.

Let's mark a few on the line...

250,000   255,000   260,000

254,301

Mark this number on the line.

What is the nearest 10,000?

251,000   251,500   252,000

251,730

Mark this number on the line.

What is the nearest 1000?

Rounding to powers of 10

Round the populations. Do the yellow section, then the red, then the blue. How far can you get?

Populations of 20 UK cities (2011)

City	Population (2011)	Nearest 10	Nearest 100	Nearest 1000	Nearest 10,000	Nearest 100,000
Aberdeen	189,121					
Cardiff	346,094					
Edinburgh	468,722					
Glasgow	603,075					
Lancaster	138,374					
Leeds	751,485					
Liverpool	466,415					
Belfast	333,871					
Bradford	522,452					
Bristol	428,234					
Derby	248,752					
Exeter	117,773					
Leicester	329,839					
Manchester	503,127					
Newcastle	280,177					
Oxford	151,906					
Portsmouth	205,056					
Sheffield	552,698					
Swansea	239,023					
York	198,051					

Problem solving and reasoning questions

Round 124,949 to the nearest 10, to the nearest 100, to the nearest 1000 and to the nearest 10,000.

How many numbers round to 550,000 as the nearest 10,000 and to 555,000 as the nearest 1000?

Sketch a line from 680,000 to 690,000. Mark the 10,000s. Write two consecutive numbers between each pair of marks – one must round up to the nearest 1000 and the other down to the nearest 1000. Say the numbers aloud.
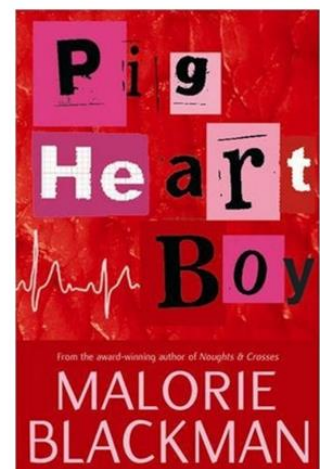
My answer has six digits. Four of the digits are identical and the other two are both 9. It rounds to 560,000 as the nearest 10,000. Write two different possible answers.

Tuesday

English

LO: To use organisational and presentational devices to structure text and guide the reader.

Handwriting: friend friend friend

How will you respond to Dr Bryce's letter?

Refresh: Planning your response...

Paragraph 1: Acknowledging Dr Bryce's letter and thanking him.

Paragraph 2:

Paragraph 3:

Paragraph 4:

Paragraph 5:

LO: To use organisational and presentational devices to structure text and guide the reader.

Main Task: Continue writing your response..

Remember to use:

- Formal Language

- First Person

- High-level language

- Organisational devices

- Emotive language

- Persuasive language

Challenge: Can you up-level 3 words you have used to make them more high-level?

Maths

Solve. $$3145 + 2503$$	Find the difference between: -14 and 2.
Double. 3571	Solve. $$4969 - 2509$$
In column methods, Jake adds the numbers as single digit sums and often makes errors. How can he quickly check his answers?	

Consolidate: Add large numbers using written addition, including 'piles of numbers' with different numbers of digits.

34,538 + 24,747   34,785 + 28,279   34,563 + 23,276

Which do you think will have the biggest answer and which do you think will have the smallest answer?

Talk to your partner and agree an order without working out the answers. Be ready to explain how you did this.

Each number could be rounded to the **nearest 10,000** to give an approximation, but the first and last would have the same approximation.

Each could be rounded to the **nearest 1000,** and then our knowledge of adding pairs of 2-digit numbers could be used to find more accurate approximations.

34,538 + 24,747   34,785 + 28,279   34,563 + 23,276

Remember to leave a blank row above the answer line for any extra 10s, 100s and 1000s so you do not forget to include them in the next column.

```
  3 4 5 3 8
+ 2 4 7 4 7
    1   1
  5 9 2 8 5
```

Now each half of the class are going to calculate one of the two other additions.

Use digits 0–9 to create two 5-digit numbers between 30,000 and 40,000, then find the total.

Column addition with 5 and 6 digits
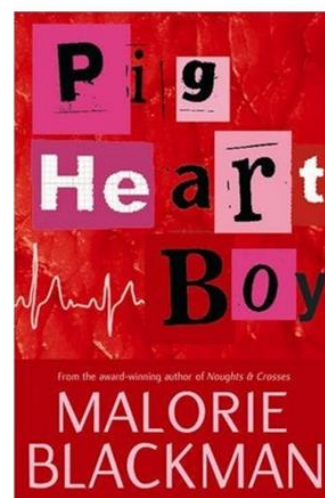### Sheet 1

	1. Easy-peasy	2. Pretty sums	3. Carry on!	4. Mixed bag	5. Pile-up	6. Tricky trios	7. Total cool
a)	10,264 + 24,731	16,181 + 34,343	64,528 + 12,713	13,526 + 42,371	12,340 1234 + 40,123	563,249 13,475 + 87,998	28,983 65,715 + 16,413
b)	13,356 + 42,731	12,345 + 65,438	48,145 + 37,025	90,178 + 91,970	86,706 40,125 + 51,443	778,994 144,015 + 92,766	138,891 308,192 + 108,472
c)	20,281 + 49,645	37,973 + 62,076	35,670 + 64,941	78,462 + 65,163	71,908 90,941 + 57,308	99,486 185,626 + 210,572	412,802 426,184 + 161,014

Challenge

Use digits 2, 3 and 4 to create a 5-digit number. Re-arrange the digits to make another 5-digit number. Add the two numbers. Can you get a total of 77,765?

English

LO: To evaluate and edit my writing by assessing the effectiveness

Pig Heart Boy
MALORIE BLACKMAN

Handwriting: heart heart heart

Have they included the feature?	🙁	😐	🙂
Formal language			
First person			
High-level emotive language			
Organisational devices			
High-level persuasive language			

Have they included the feature?	🙁	😐	🙂
Formal language		✓	
First person			✓
High-level emotive language		✓	
Organisational devices			✓
High-level persuasive language	✓		

Can you include everything effectively?

Using a purple pen, add in any of the features you have not included. In addition to this:

- Check your spelling of high-level words
- Ensure your punctuation is accurate
- Up-level low-level language

Self-Assessment

Have they included the feature?	🙁	😐	🙂
Formal language		✓	✓
First person			✓✓
High-level emotive language		✓	✓
Organisational devices			✓✓
High-level persuasive language	✓	✓	

Have you improved your work?

Show me what features you have now included effectively.

Would anyone like to read out a section of their work which they think is outstanding?

Maths

Write in words.	Double.
67277 + 50790	2.7
Write in descending order:	**Estimate.**
-7, 0, -12, -11.	3456 + 7890

Jake is always adding digits from neighbouring columns (often due to untidiness). Advise and explain.

11

Consolidate: Add large numbers using written addition, including adding numbers with different numbers of digits.

73,274 + 52,638

Estimate the total.

So, this time the digits in the 10,000s column are going to add to more than 100,000!

Remember to leave a blank row above the answer line for any extra 10s, 100s and 1000s so you do not forget to include them in the next column.

```
  7 3 2 7 4
+ 5 2 6 3 8
      1 1
─────────
1 2 5 9 1 2
```

Work in pairs to create a 5-digit addition where the 1s total more than 9, the 10s more than 90, the 100s more than 900, the 1000s more than 9,000 and the 10,000s more than 90,000…

We can definitely add *any* pair of 5-digit numbers!

45,678 + 27,314 + 1526 + 314

Note that we are adding numbers with different numbers of digits.

```
  4 5 6 7 8
  2 7 3 1 4
    1 5 2 6
+     3 1 4
  1 1 1 2
_____
  7 4 8 3 2
```

The method is the same but we just need to be careful when adding several digits in the same column…

Using addition in a science experiment
Sheet 2

Scientists are creating high-tech fabrics with 3 or 4 layers. They try different combinations. Thicknesses are measured in nanometers (nm) – a millionth of a millimetre. Work out how thick each sample is.

	1. Silky gauze	2. Shiny satin	3. Fuzzy felt	4. Soft pile	5. Windproof	6. Waterproof	7. Tweed twill
a)	10,021 42,172 + 3432	34,642 19,255 + 22,132	62,467 87,123 + 70,405	91,819 80,654 + 13,070	12,322 47,189 + 69,453	18,113 38,064 78,256 + 10,011	979,797 833,833 123,456 + 489,984
	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm
b)	14,801 34,567 + 40,220	64,232 23,754 + 31,205	17,454 39,513 + 23,211	85,407 61,574 + 42,310	42,731 34,947 + 47,918	92,817 74,874 45,852 + 42,012	987,654 498,765 549,876 + 654,987
	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm
c)	12,345 54,325 + 10,706	11,083 25,224 + 36,420	64,253 54,043 + 34,513	73,141 97,697 + 44,110	56,789 67,890 + 78,901	74,970 58,949 34,268 + 54,135	998,877 866,557 957,846 + 789,897
	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm	_____ nm

Challenge

```
    4 5 9, ? ? ?
    2 4 0, 2 5 2
+   ? 1 ?, 6 3 1
_____
    9 1 5, 0 3 6
```

Wednesday

Christmas Crackers!

10 Mother has been working extra hours for the past month
19 to provide some treats this Christmas. Her rich employer
30 has offered to buy us a sizeable turkey. Last year, we
40 managed to poach two rabbits so each got a morsel –
50 that's the trouble with having six siblings! But this year,
54 we will have leftovers.

64 Father says we can spend some of mother's earnings on
75 gifts for each other but, because I am used to making
88 gifts, I'm going to make my sisters each a peg doll and my
97 brothers a cracker. The crackers were invented last year
107 (1848) by a sweet maker in London: they are expensive,
118 but I will spend my farthing to buy rhubarb and custard
122 sweets to go inside!

Quick Questions

1. Who invented Christmas crackers? When?

2. Find two adjectives which are antonyms of each other.

3. How will Christmas differ this year to previous years?

4. Do you think they will have any leftovers? Why?

SPaG: To use adverbials such as on the other hand, in contrast, or as a consequence

Adverbial clauses of contrast

An adverbial clause of contrast describes something that differs from or contrasts with an idea expressed in the main clause. Commonly used subordinating conjunctions include *though, although, even though, whereas*, and *even if*. For example:

- "***Though** the sun is out*, the wind is very chilly."
- "***Although** she doesn't have much money*, Wendy often goes traveling."
- "I do this job ***even though** I hate it*."
- "Babies look at the world with innocence, ***whereas** adults look at it with experience*."
- "Matt will go to college, ***even if** it means taking out student loans*."

Main Task: Can you use these in a sentence?

1 « Whereas »   Chicken meat is white, whereas cow meat is red.

2 « However »   That man has much money. However, he isn't happy at all.

3 « Yet »   The weather was snowy, yet it was not cold.

4 « Despite »   I can manage to stay cheerful despite everything.

5 « Even so »   The hypothesis is true, even so, further research is required.

6 « But »   He is a very handsome, but he is very rude person.

7 «Although»   Although she loves her job, she decided to quit the job.

Maths

Problem solving and reasoning questions

Write the missing digits in this sum:

3 4 7 1 9 + ☐ 6 5 ☐ ☐ = 7 ☐ ☐ 0 8

Write an addition where the two 5-digit numbers add to 55,555. Neither number has a 0 and you must use 6, 7, 8 and 9 as digits somewhere; you can also use other digits!
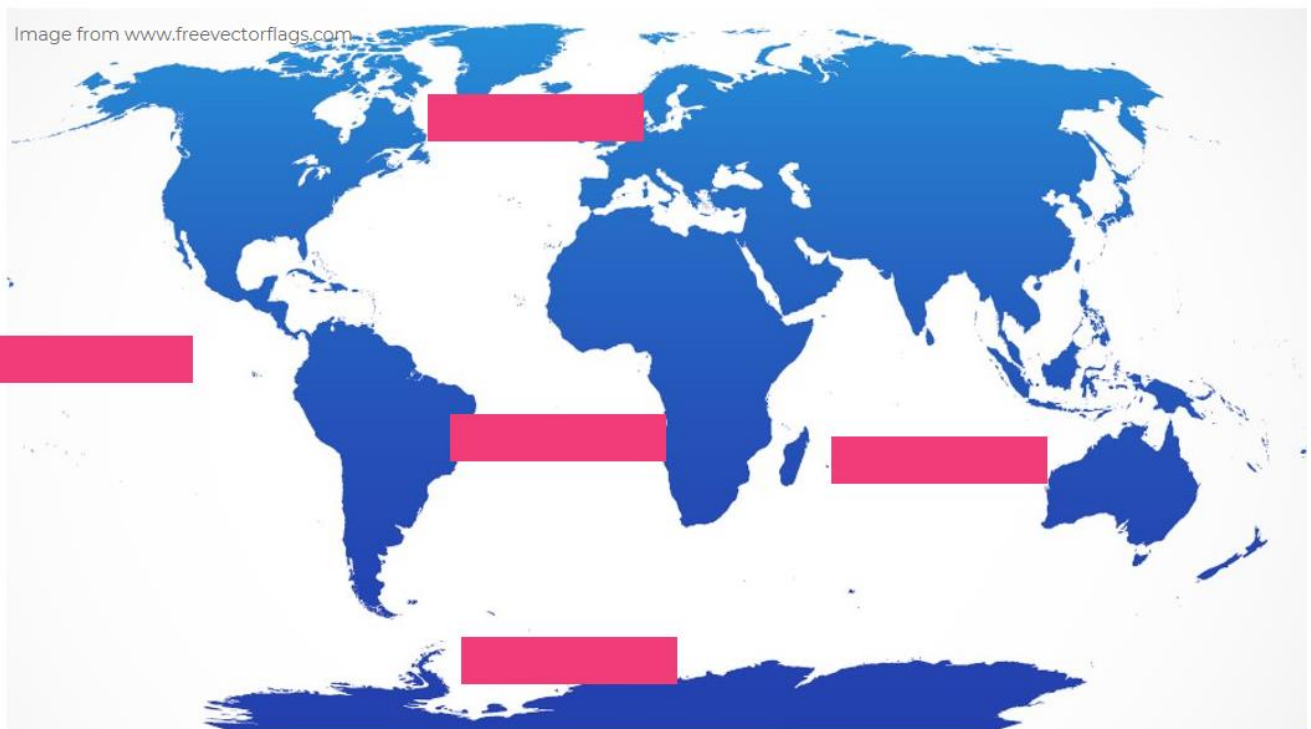
Write a 5-digit plus 4-digit addition where every column adds to more than 10.

Answers at the end

Geography

Can you remember the 5 Oceans?

5 Oceans

Q2. What is the average life expectancy in Europe?

○ 52 years

○ 65 years

○ 43 years

○ 81 years

○ 100 years

Q4. What currency is commonly used in countries that are part of the European Union?

○ pounds

○ euros

○ dollars

○ krone

○ rupees

Answers at the end

Friday

Computing

LO: To understand GIS and how it works

5 Key Research Questions

1. What is GIS?

2. When was GIS introduced?

3. Why do we use GIS?

4. How does GIS work?

5. Where has GIS been implemented?

History

Date
The key features of Victorian society

Society: the community of people living in a particular country or region and having shared customs, laws, and organizations

Retrieval Practice   **Write in complete sentences.**

The Industrial Revolution began in:

Queen Victoria from Britain from 1837 to _____.

Social Class System

Victorian society was divided into 3 classes:

• Upper class – royals and nobles who inherited money and status.

• Middle class – business owners who made their own money.

• Working class – skilled and unskilled people who worked physical jobs.

As we will discover, the Victorian Era provided many opportunities for middle class people who ran their own businesses but resulted in working class people being treated poorly.

3. Which other social structure that you have studied is this similar to?

The Industrial Revolution

A period of change took place between 1760 and 1900 when technology altered the jobs people did and the way they lived. Before the Industrial Revolution, most people lived in small villages and worked on farms or made crafts and clothes in their homes. During this period, people moved away from their villages to work in mines or factories.

In factories, products could be mass produced: machines could make more products of identical standard, more quickly and at a lower cost. Those people who worked at these factories did not have to be skilled (trained) in a job because the machines did those things for them.

In the villages, much work on farms was seasonal (depended on the time of year) so many families would struggle for money and food in the winter months. In the factories, however, they could have a steady wage throughout the year for them and their children of working age.

4. Why might people have wanted to work in a factory rather than on a farm?

_____
_____
_____

5. How would the Industrial Revolution have provided more opportunities for middle class people?

_____
_____
_____

Answer Learning Review

What were the key features of Victorian society?	• What were the key dates in the period. • The nature of the class system. • That population grew massively through this period.

The key features of Victorian society were _____, _____ and _____ . The Industrial Revolution began in _____ and the Victorian era took place between _____ and _____ .Victorian society was divided into three social classes _____ , _____ and _____.
Due to _____ and was the population grew massively. The increase in population was _____ for the British economy. Although it had negative effects such as _____.

Judaism – An introduction

LO: To be learn how Jewish people are reflective and self-critical

https://www.bbc.co.uk/teach/class-clips-video/religious-studies-ks2-what-is-judaism/zfbhf4j

Rosh Hashanah

What can you remember from last weeks' assembly?

Level: Basic

...In the seventh month, on the first of the month, there shall be a sabbath for you, a remembrance with shofar blasts, a holy convocation. (Leviticus 16:24)

Rosh Hashanah occurs on the first and second days of the Jewish month of Tishri.

Significance: New Year
Observances: Sounding the shofar (ram's horn trumpet)
Length: 2 Days (Some: 1 Day)
Customs: Dipping apples in honey; Casting off "sins" into a river
Greeting: L'shanah tovah! (For a good year!)

Jewish "New Year"

https://www.bbc.co.uk/teach/class-clips-video/religious-studies-ks2-celebrating-rosh-hashanah/zdqc8xs

Yom Kippur

Yom Kippur

<div dir="rtl">יוֹם כִּפּוּר</div>

Level: Basic

...In the seventh month, on the tenth day of the month, you shall afflict your souls, and you shall not do any work ... For on that day he shall provide atonement for you to cleanse you from all your sins before the L-RD. (Leviticus 16:29-30)

Significance: Day of Atonement
Observances: Fasting, Prayer and Repentance
Length: 25 Hours
Greeting: Have an easy fast
Liturgy additions: Annulment of vows; lengthy confession of sins

Yom Kippur is probably the most important holiday of the Jewish year. Many Jews who do not observe any other Jewish custom will refrain from work, fast and/or attend synagogue services on this day. Yom Kippur occurs on the 10th day of Tishri. The holiday is instituted at Leviticus 16:29-30.

The Day of Atonement

https://www.bbc.co.uk/bitesize/topics/znwhfg8/articles/z4vvjhv

Main Task: Reflection and being Self Critical

In Judaism it is important for Jewish people to be reflective about what they have achieved, this is celebrated during Rosh Hashana. It is also vital that Jewish people are self-critical and think about what they have done which is not right according to the Torah. They use Yom Kippur to atone for their mistakes and ask God for forgiveness.

Why is it important to celebrate your achievements?

Why must we also reflect on our wrong doings?

Answers

Problem solving and reasoning answers

Round 124,949 to the nearest 10, to the nearest 100, to the nearest 1000 and to the nearest 10,000.

- 124,950 (to the nearest 10)
- 124,900 (to the nearest 100)
- 125,000 (to the nearest 1000)
- 120,000 (to the nearest 10,000)

Note that it is important to go back to the original number each time, answers of 125,000 (to the nearest 100) or 130,000 (to the nearest 10,000) suggest that children have not done that.

How many numbers round to 550,000 as the nearest 10,000 and to 555,000 as the nearest 1000? **500 numbers**

All of the numbers 554,500-554,999. If children are stuck, reviewed on a 550,000 – 560,000 number line.

Sketch a line from 680,000 to 690,000. Mark the 10,000s. Write two consecutive numbers between each pair of marks – one must round up to the nearest 1000 and the other down to the nearest 1000. Say the numbers aloud.

Do children correctly mark and sequence the 1000s, 681,000 – 689,000?

Between any pair of marks, e.g. 687,000 and 688,000 the number rounding down must end in 499 or less, the one rounding up must end in 500 or more, e. 687,391 rounds down whereas 687,623 rounds up.

My answer has six digits. Four of the digits are identical and the other two are both 9. It rounds to 560,000 as the nearest 10,000. Write two different possible answers.

The number must begin 55 in order to round to 560,000 so must have four 5s. There are 6 possibilities:

559,955   559,595   559,559   555,995   555,959   555,599

ANSWERS https://www.youtube.com/watch?v=X6BE4VcYngQ

Image from www.freevectorflags.com

Problem solving and reasoning answers

Write the missing digits in this sum:
3 4 7 1 9 + **3** 6 5 **8 9** = 7 **1 3** 0 8
Some may find it helpful to set out in columns. Mistakes are most likely to be due to confusion over moving digits between columns.

Write an addition where the two 5-digit numbers add to 55,555. Neither number has a 0 and you must use 6, 7, 8 and 9 as digits somewhere; you can also use other digits!
There are many solutions, e.g. 32,786 + 22,769. A good way to start finding a solution is to set out in columns and put 6 and 9 or 7 and 8 in the 1s place, then use the other two numbers in the 10s and 100s.

Write a 5-digit plus 4-digit addition where every column adds to more than 10.
Again many solutions, e.g. 95,868 + 6,775. Starting the 5-digit number with 9 and only using digits 5 or greater ensures a solution – do children notice this?

Q2. What is the average life expectancy in Europe?

○ 52 years

○ 65 years

○ 43 years

● 81 years

○ 100 years

Q4. What currency is commonly used in countries that are part of the European Union?

○ pounds

● euros

○ dollars

○ krone

○ rupees

Europe is the ____ largest continent. The average life expectancy is.......
years old. The most common currency in Europe is …............. .

Write in words.	Halfway.
Six million, forty thousand and forty.	4000 **8500** 13000

Complete sequence.	Missing number.
842, 882, **922** , 962, **1002**	12,000 **12,500** **13,000**

Although it seems counterintuitive, the nearest thousand is still 0. It is closer to 0 than it is to 1000.

3

Solve.	Find the difference between:
3145 + 2503 = **5648**	-14 and 2 = **16**

Double.	Solve.
3571 = **7142**	4969 – 2509 = **2460**

He could use rounding and estimation to see if his answer is close to where it should be.

4

Write in words.	Double.
67277 + 50790	2.7
Write in descending order:	Estimate.
0, -7, -11, -12.	3456 + 7890 = 11,000

He needs to lay columns out correctly and align his digits and exchanges in the correct place.

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