HILL WEST Primary

FOUR OAKS

Home Learning Pack

Year 6

Week Beginning 5.7.21

Table of Contents (clickable links)

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

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/

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/ks2/

Top Marks
A range of activities here but especially good interactive activities for maths.
https://www.topmarks.co.uk/

Classroom Secrets
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
https://readingeggs.co.uk/

Top Marks
A website for great interactive maths games.
https://www.topmarks.co.uk/

Times Tables Rockstars
This is a great times tables game, practice all of the tables up to 12 x 12. Your child's username and password can be found in their Homework Book.
https://ttrockstars.com/

Monster SATs
On-screen and paper-based resources, including curriculum-based games for primary schools.
https://www.monstersats.co.uk/group-login-page/

SPaG.com
SPaG.com provides KS1 and KS2 practice punctuation & grammar tests. Plus 80 additional tests covering grammar objectives for every year group
https://www.spag.com/

White Rose Maths Hub
Daily 'home learning' lessons for Years 1-9. Every lesson comes with a short video showing you clearly and simply how to help your child complete the activity successfully.
https://whiterosemaths.com/homelearning/

Khan Academy
A great website for learning, with all activities and videos for every topic. A favourite of Mr Ellison.
https://www.khanacademy.org

Codeclub
Fancy something a bit different. Try out the Code Club website for free tutorials and guides no creating code in a range of platforms.
https://projects.raspberrypi.org/en/codeclub

Duolingo
Fancy something a bit different. Try out the Code Club website for free tutorials and guides no creating code in a range of platforms.

Top tips to develop reading skills during lockdown

To view free Oxford Reading Tree texts online access www.oxfordowl.co.uk .

Try to access Reading Eggs at least once each week.

Ask your child to create a book review for the favourite book that they have read during lockdown. Tweet @hillwestprimary to share your child's thoughts!

For engaging activities to further support your children's literacy skills from home visit

Access daily Letters and Sounds Phonics lessons at www.lessonsandsounds.org.uk

For phonics practise access Phonics Play!

To help your child grasp complex vocabulary use the 'SEEC' method.

1) **Select** – read the text beforehand, highlighting any complex vocabulary.
2) **Explain** – give multiple examples and pupil- friendly definitions.
3) **Explore** – dig into the root meanings of each word, and further questions that the word poses.
4) **Consolidate** – give your child the opportunity to use the words in conversation and revisit the word later in written activities and quizzes.

Access the Oak National Academy's virtual library to read/ listen to the weekly text.

Look at the top 100 children's books that are listed in your child's homework diary. Highlight any of these books that your child has read.

Create quizzes about your child's evening book.

To enhance your child's vocabulary follow @VocabularyNinja on twitter!

Use audiobooks as a supplement to reading, not a replacement. Listening to an audiobook is different to reading a book, and so your child might not develop the same comprehension skills while listening. However, audiobooks might help pupils get immersed in ideas and stories, and as a result motivate them to pick up a book.

www.worldofdavidwalliams.com/elevenses
Visit David Walliams' website to listen to a different section of his books each day.

www.bookstrust.org.uk/books-and-reading/bookfinder/
Visit the Books Trust website to find a suitable book for your child based on their age and interests.

www.bbc.co.uk/newsround
Encourage your child to read different news articles each day. Not only will it enhance their knowledge of current affairs, it will develop their confidence with reading non-fiction texts.

Y6 Half term 1	Y6 Half term 2	Y6 Half Term 3	Y6 Half Term 4	Y6 Half Term 5	Y6 Half Term 6
aggressive	convenience	controversy	prejudice	sufficient	decided
awkward	mischievous	correspond	accommodate	determined	absolutely
desperate	committee	embarrass	accompany	explanation	education
disastrous	interrupt	especially	signature	pronunciation	information
temperature	interfere	exaggerate	foreign	programme	knowledge
relevant	attached	cemetery	apparent	shoulder	insignificant
variety	available	necessary	appreciate	sweltering	ecstatic
existence	average	sacrifice	persuade	sauntered	woeful
suggest	competition	hindrance	individual	equipped	dejected
lightning	conscience	nuisance	language	identity	unobtrusive

Maths

5 minutes of Times tables Rock Stars Daily (Tick each day).

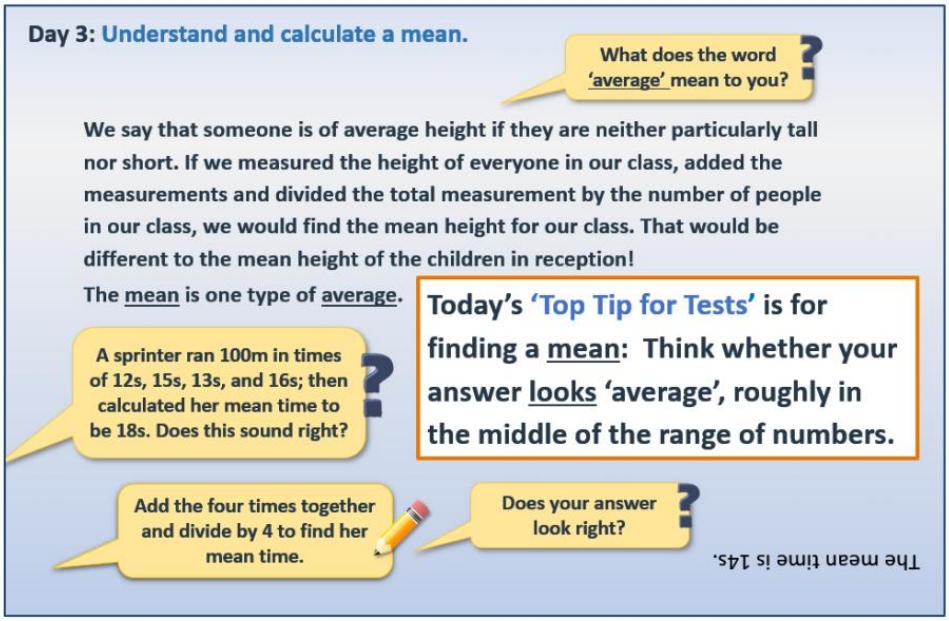
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

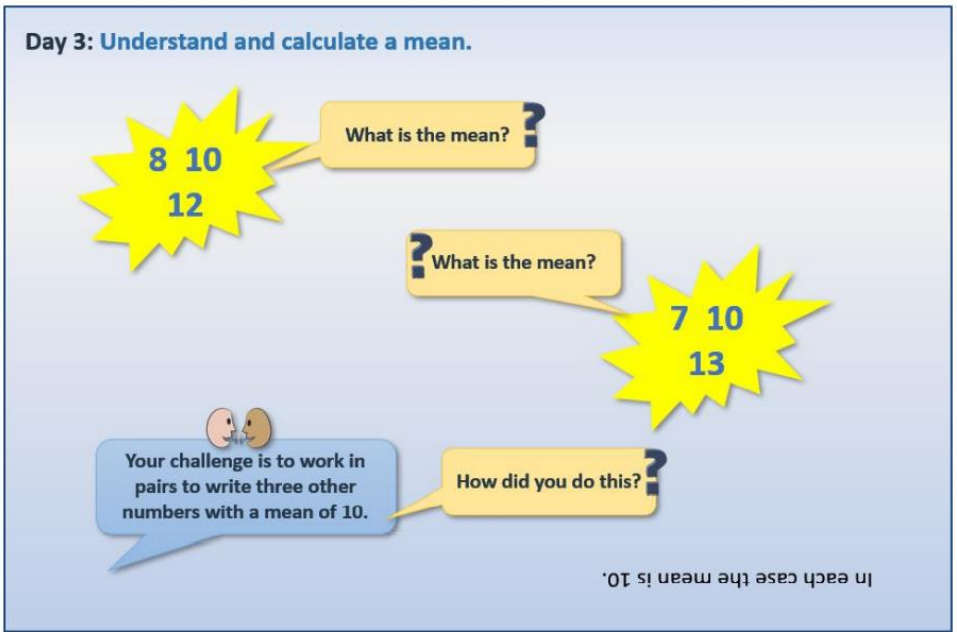
Links

Helpful **video** links White Rose Maths Hub	https://whiterosemaths.com/homelearning/year-6/
BBC Bitesize **Videos/guidance**	https://www.bbc.co.uk/bitesize/collections/year-6-and-p7-maths-lessons/1

Teaching revision: Day 3

Understand and calculate a mean.





Find a mean

Day 3 Sheet 1

1. These are Sarah's last four scores in her spelling tests.
   23, 19, 21, 17
   Calculate her mean (average) score.

2. Class 6 measured the rainfall each day (see graph).
   Calculate the mean daily rainfall.

3. There are 4 classes in KS2 at Chestnut School.

Year	Number in the class
3	28
4	25
5	32
6	27

   Calculate the mean class size.

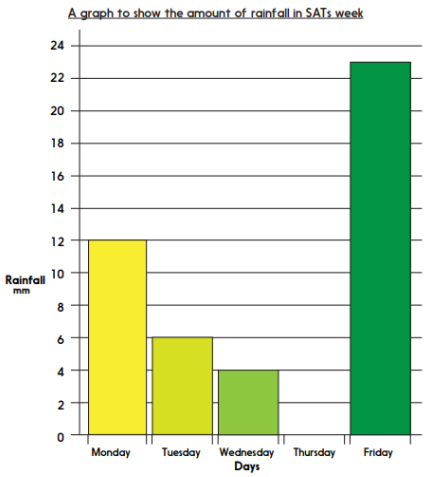
4. Six people's index fingers are the following lengths:
   8cm, 9cm, 8cm, 7cm, 7cm, 9cm.
   What is the mean length?

5. Write two different numbers in the boxes so that the mean of the three numbers is 5.

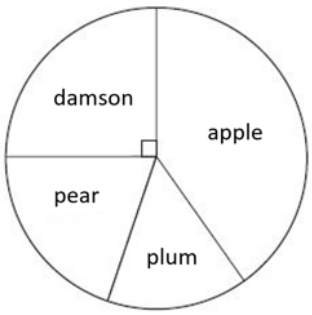
   ☐ 5 ☐

6. The following three numbers have a mean of 10.
   Which number is missing?

   8 10 ☐



This chart shows the number of different types of tree in an orchard.
There are 40 trees in the orchard altogether.



Here are some statements about the chart. Tick the statements that are **true**.

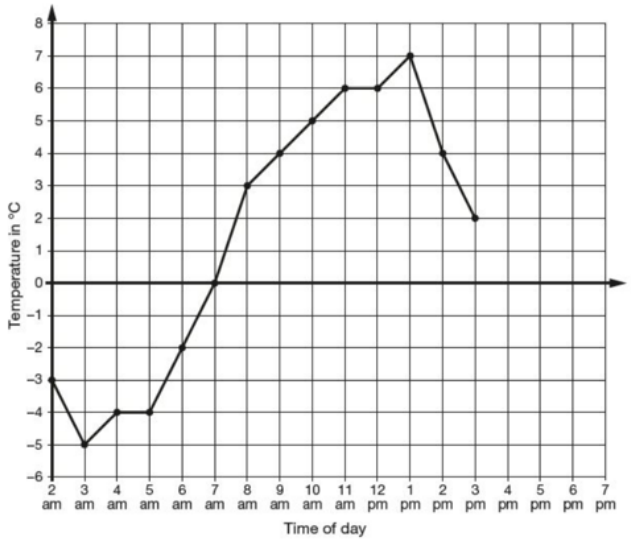
There are more damson trees than pear. ☐

The total number of pear and plum trees is 20. ☐

One-quarter of the trees are damson. ☐

There are more than 10 pear trees. ☐

This graph shows the temperature in °C from 2am to 3pm on a winter day:



How many degrees warmer was it at 12pm than at 4am?

What is the difference between the minimum and maximum observed temperatures?

At 7pm, the temperature was 10 degrees lower than at 2pm. What was the temperature at 7pm?

What was the mean temperature between 2am and 11am?

Teaching revision: Day 1

Extend and describe linear number sequences.

Day 1: Extend and describe linear number sequences.

1, 8, 15, 22, 29...

Write the next three terms in this sequence.

Can you describe the pattern?

95, 89, 83, 77...

Write the next three terms in this sequence.

Can you describe the pattern?

1st sequence goes up 7 each time,
the next 3 terms are 36, 43 and 50.
2nd sequence goes down 6 each time,
the next 3 terms are 71, 65 and 59.

Day 1: Extend and describe linear number sequences.

2, 5, 8, 11…

Describe the sequence to your partner and write what you think the 10th term will be.

n is the number of terms in the sequence.

n	1	2	3	4	5	6	7	8	9	10
t	2	5	8	11	14	17	20	23	26	29

How does this pattern grow?

What other pattern do we know that grows in steps of 3?

So, this pattern is based on the 3× table, but has been adjusted somehow….

It is the 3 times table, -1.
To find the value of each term (*t*), we multiply the term number (*n*) by 3, then subtract 1.
We multiply by the difference between neighbouring terms, then adjust.

Check this rule works for the 5th to 10th terms.

Day 1: Extend and describe linear number sequences.

2, 5, 8, 11…

Describe the sequence to your partner and write what you think the 10th term will be.

n is the number of terms in the sequence.

n	1	2	3	4	5	6	7	8	9	10
t	2	5	8	11	14	17	20	23	26	29

We can represent any term in the sequence with the letter *n*, so think about what we do to *n* to calculate the value of *t*…

We can write <u>any</u> term as $3n - 1$, which means if $n = 10$, the 10th term, we can find this number in the sequence without working out the first nine terms ($3 \times 10 - 1 = 29$).

What will the 100th term be ($n = 100$)?

Today's 'Top Tip for Tests' is for <u>sequences</u>: When you think you have worked out a pattern/general relationship, <u>check that it works</u> for all the terms that you know.

Sequences

Day 1 Sheet 1

1. This is part of a number sequence. The numbers increase by the same amount each time. Write the next three numbers.

   18, 26, 34, 42, 50, ____, ____, ____

2. Circle ALL of the numbers which will appear in this number sequence:

   25, 75, 125, 175, 225, etc.

   250, 275, 425, 550, 800, 1025

3. Write the missing numbers in this sequence.

   - 9 , - 7 , - 5 ☐ , - 1 ☐ , 3 , 5 , ☐ , 9

   Write one other number which would appear in this number pattern.

4. Write the next three numbers in this sequence.

   1.2, 2.4, 3.6, 4.8, 6, ___, ___, ___

5. Describe this sequence.

   ___, ___, ___, 80, 73, 66, 59, 52, 45, ___, ___, ___

   Write the missing numbers before 80 and after 45 in this pattern.

6. Write the first two numbers less than zero in this sequence.

   200, 175, 150, 125, 100, 75

7. Josh started writing this sequence of numbers:

   6, 11, 16, 21, 26, 31, 36

   Will the number 94 appear in this sequence? Circle yes / no.

   Explain how you know.

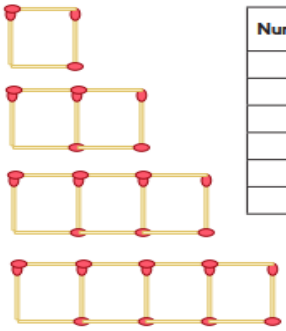
Sequences

Day 1 Sheet 2

8. The numbers in this sequence increase by the same amount each time. Write in the missing numbers.

2 , ☐ , ☐ , ☐ , 26

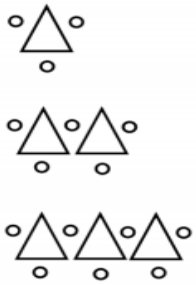
9. Here is a sequence made from squares. Complete the table.



Number of squares	Number of matchsticks
1	4
2	7
3	
4	
5	
10	

How many matchsticks will be in the pattern which has 20 squares? _____

10. Here is a sequence of patterns made from triangles and circles. Complete the table.



Number of triangles	Number of circles
1	3
2	5
3	
4	
5	
10	

How many triangles will be in the pattern which has 41 circles? _____

Teaching revision: Day 2

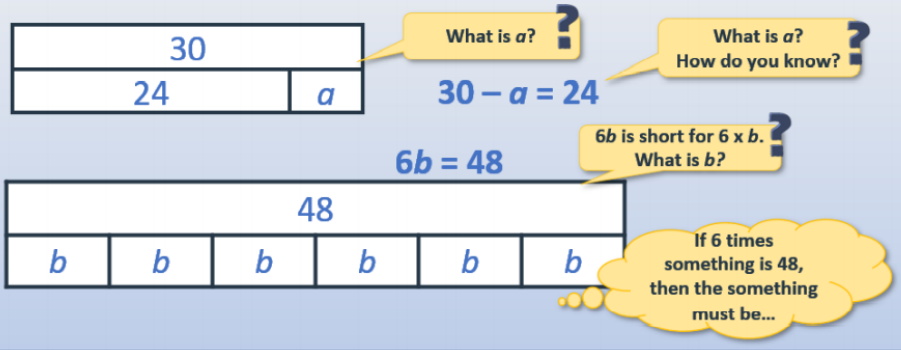
Solve equations; Find pairs of numbers that satisfy an equation with two unknowns.

Day 2: Solve equations; Find pairs of numbers that satisfy an equation with two unknowns.

$$24 + a = 30$$

Remember that this is called an **equation** and '***a***' stands for a **mystery number.**

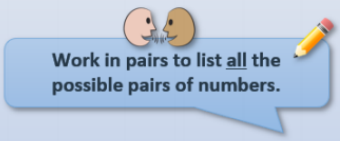
Today's 'Top Tip for Tests' is for algebra: Think of letters as empty boxes.



Day 2: **Solve equations; Find pairs of numbers that satisfy an equation with two unknowns.**

$x + y = 12$

x and ***y*** are whole positive numbers, and this time there is not one solution, but many.

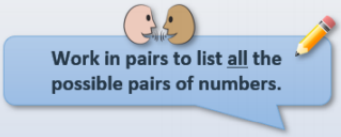


x	*y*
0	12
1	11
2	10
3	9
4	8
5	7
6	6
7	5
8	4
9	3
10	2
11	1
12	0

Day 2: **Solve equations; Find pairs of numbers that satisfy an equation with two unknowns.**

$m \times n = 24$

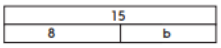
m and *n* are whole positive numbers

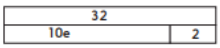


m	*n*
1	24
2	12
3	8
4	6
6	4
8	3
12	2
24	1

Solve these equations

Day 2 Sheet 1

1. $12 - a = 7$
2. 

3. $4c = 36$
4. $80 \div d = 40$
5. 

6. $3f = 15$
7. $10 + g = 16$
8. $2h + 6 = 12$
9. $20 - 4i = 12$
10. $45 \div j = 9$
11. $5k \div 2 = 10$
12. $10 + m = 56 \div 8$

Challenge

Solve these equations:

13. $r + s = 14$
    r and s are positive whole numbers. List all the possible pairs of numbers.
14. $n \times p = 16$
    n and p are positive whole numbers. List all the possible pairs of numbers.
15. $12 - t = u$
    t and u are positive whole numbers. List all the possible pairs of numbers.

Mastery questions

Here is a pattern of number pairs:

n	m
1	8
2	13
3	18
4	23

Complete the rule for the number pattern:

$m =$ ☐ x n + ☐

The rule for a number sequence is

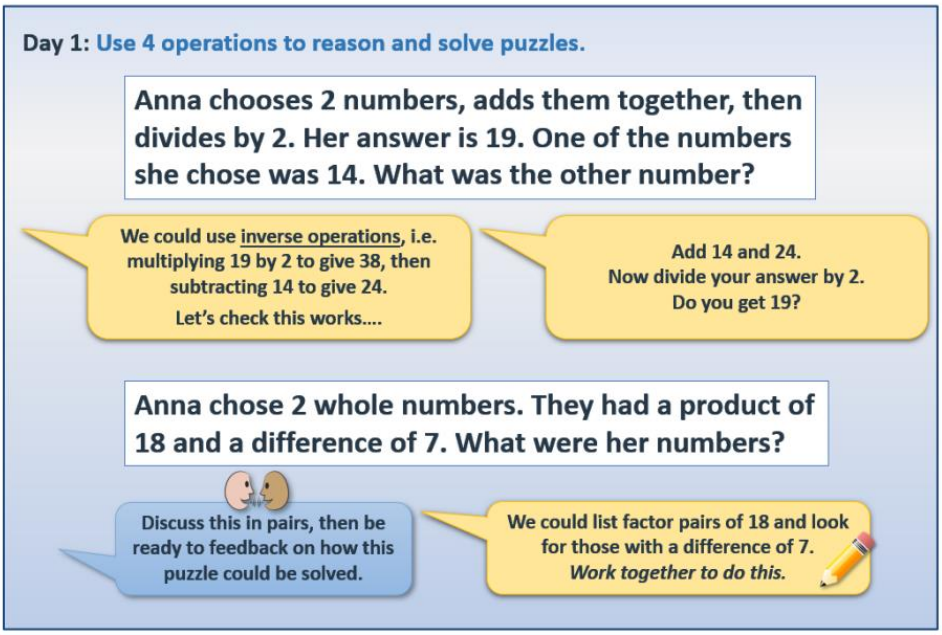
$s = {}^{1}/_{2}t + 5$

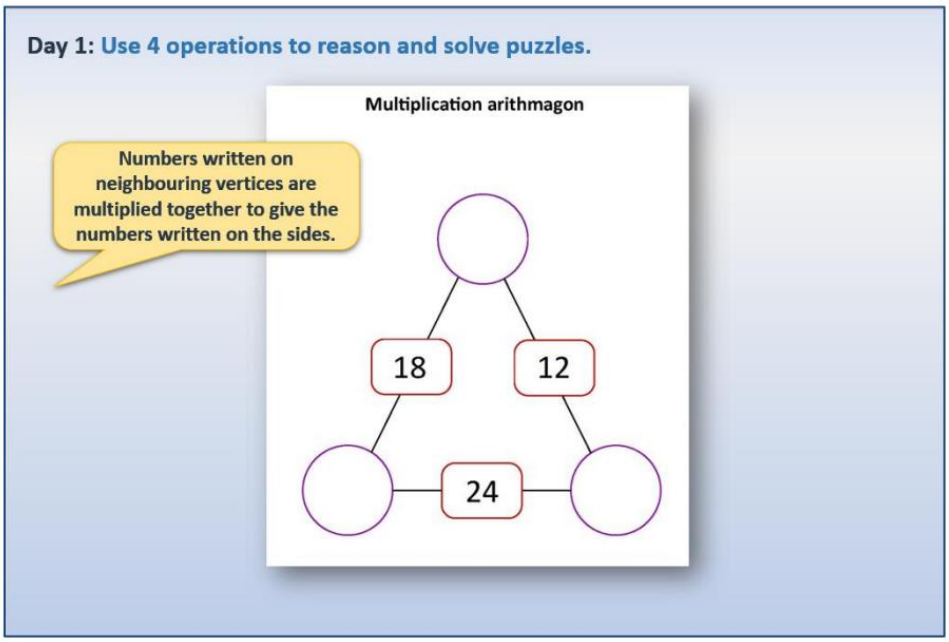
What is the value of s when $t = 12$?

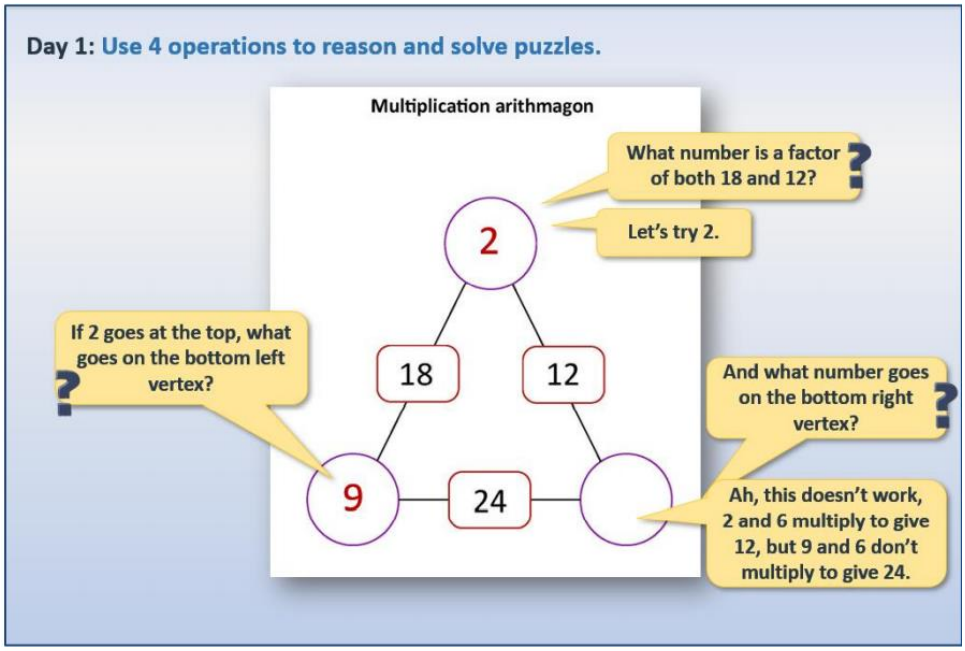
What is the value of t when $s = 9$?

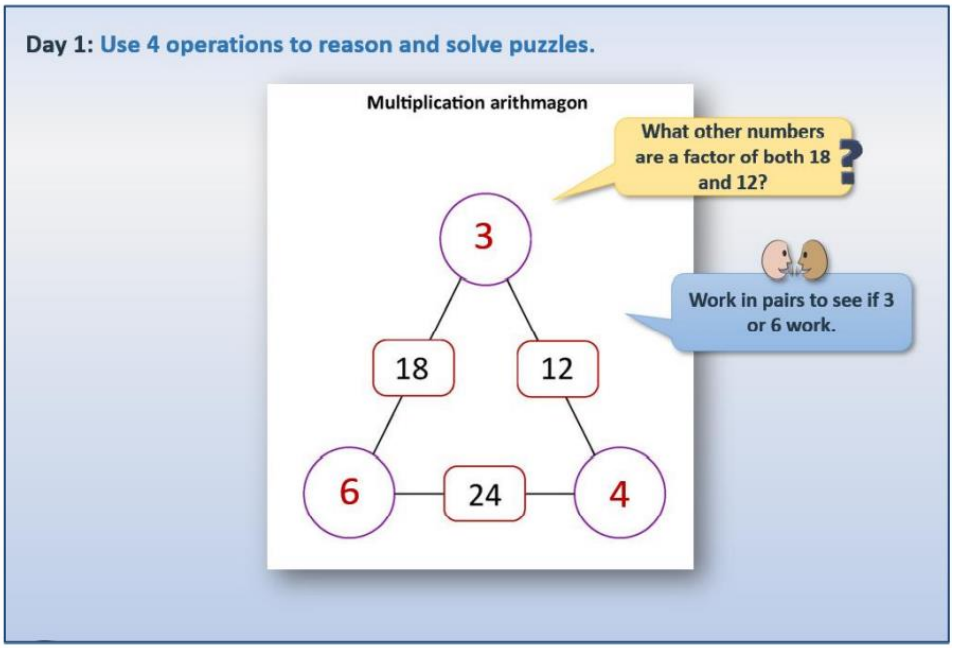
Teaching revision: Day 1

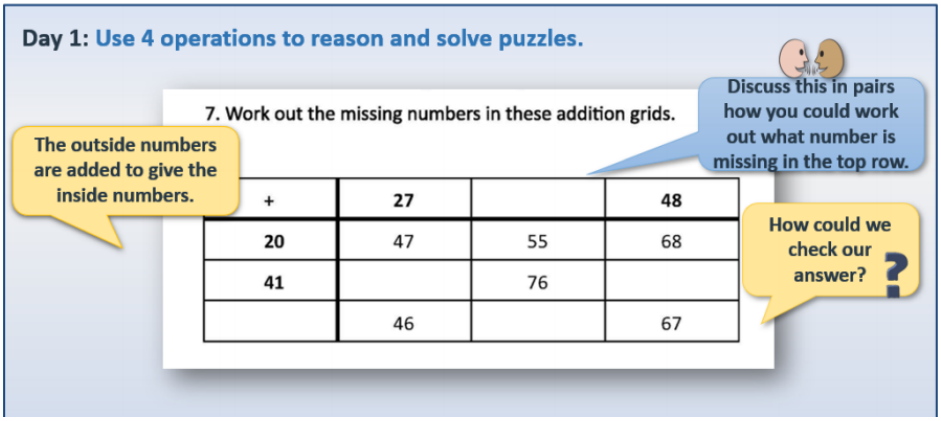
Use four operations to reason and solve puzzles.

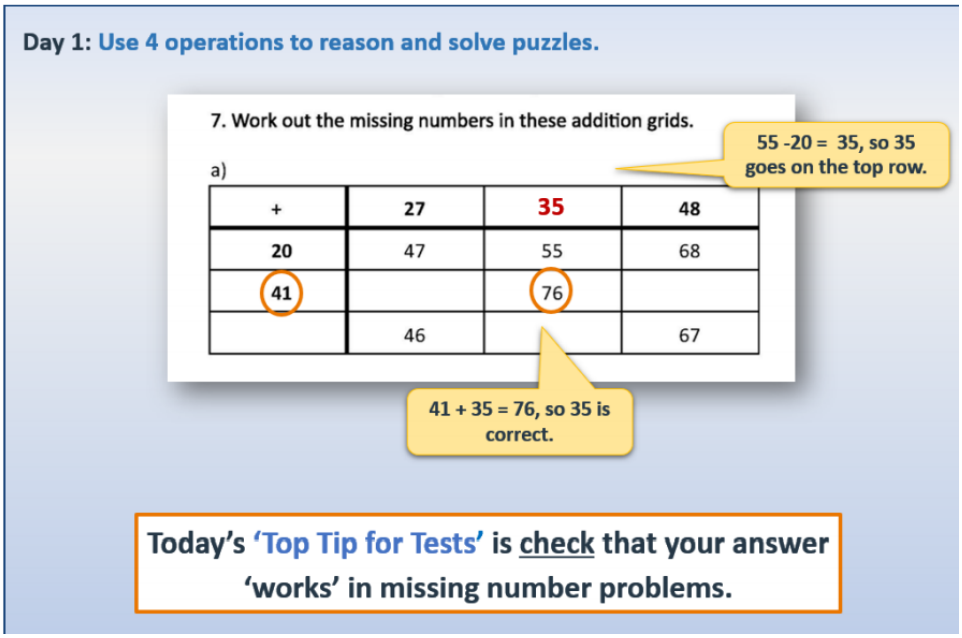





Day 1: Use 4 operations to reason and solve puzzles.
Multiplication arithmagon
What number is a factor of both 18 and 12?
Let's try 2.
2
If 2 goes at the top, what goes on the bottom left vertex?
18
12
And what number goes on the bottom right vertex?
9
24
Ah, this doesn't work, 2 and 6 multiply to give 12, but 9 and 6 don't multiply to give 24.


Day 1: Use 4 operations to reason and solve puzzles.
Multiplication arithmagon
What other numbers are a factor of both 18 and 12?
3
Work in pairs to see if 3 or 6 work.
18
12
6
24
4


Day 1: Use 4 operations to reason and solve puzzles.
7. Work out the missing numbers in these addition grids.
Discuss this in pairs how you could work out what number is missing in the top row.
The outside numbers are added to give the inside numbers.
How could we check our answer?
+ 27 48
20 47 55 68
41 76
46 67


Day 1: Use 4 operations to reason and solve puzzles.
7. Work out the missing numbers in these addition grids.
a)
55 -20 = 35, so 35 goes on the top row.
+ 27 35 48
20 47 55 68
41 76
46 67
41 + 35 = 76, so 35 is correct.
Today's 'Top Tip for Tests' is check that your answer 'works' in missing number problems.

Solving number puzzles

Day 1 Sheet 1

1. Vikesh has chosen two numbers. He divides the total by 2 and gets the answer 18. One of the numbers he chose was 15.
   What was the other number?

2. Katya chooses two numbers. They have a product of 36 and a difference of 5. What numbers did she choose?

3. Lauren thinks of three consecutive numbers. They have a product of 120.
   What are they?

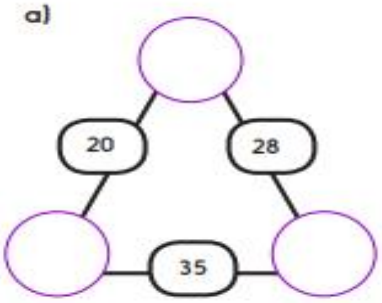
   $\square \times \square \times \square = 120$

4. Jordan thinks of two consecutive numbers. He halves the product. He gets an answer of 21. What were his numbers?

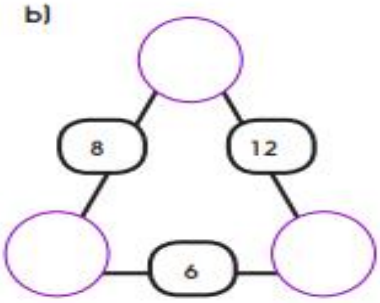
5. Seth thinks of two even single-digit numbers. He doubles the product. He gets an answer of 48. What numbers did he choose?

6. Work out the missing numbers in these multiplication arithmagons.

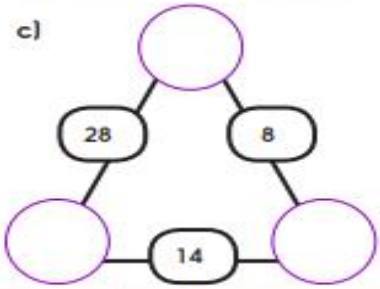
a)



b)



c)



Solving number puzzles

Day 1 Sheet 2

7. Work out the missing numbers in these addition grids.

a)

+	27		48
20	47	55	68
41		76	
	46		67

b)

+		17	
68	103	85	
		50	84
	82	64	

English

- Read for pleasure ~10 minutes.

Handwriting/Spelling

Choose 2-3 words from the spelling list. Write each word into a sentence or story. Not sure what it means? Check the internet or grab a dictionary! ☺

SPaG

Oak National Academy

Revisit your understanding of grammar and terms using the videos and resrouces.

https://classroom.thenational.academy/subjects-by-key-stage/key-stage-2/subjects/english-grammar

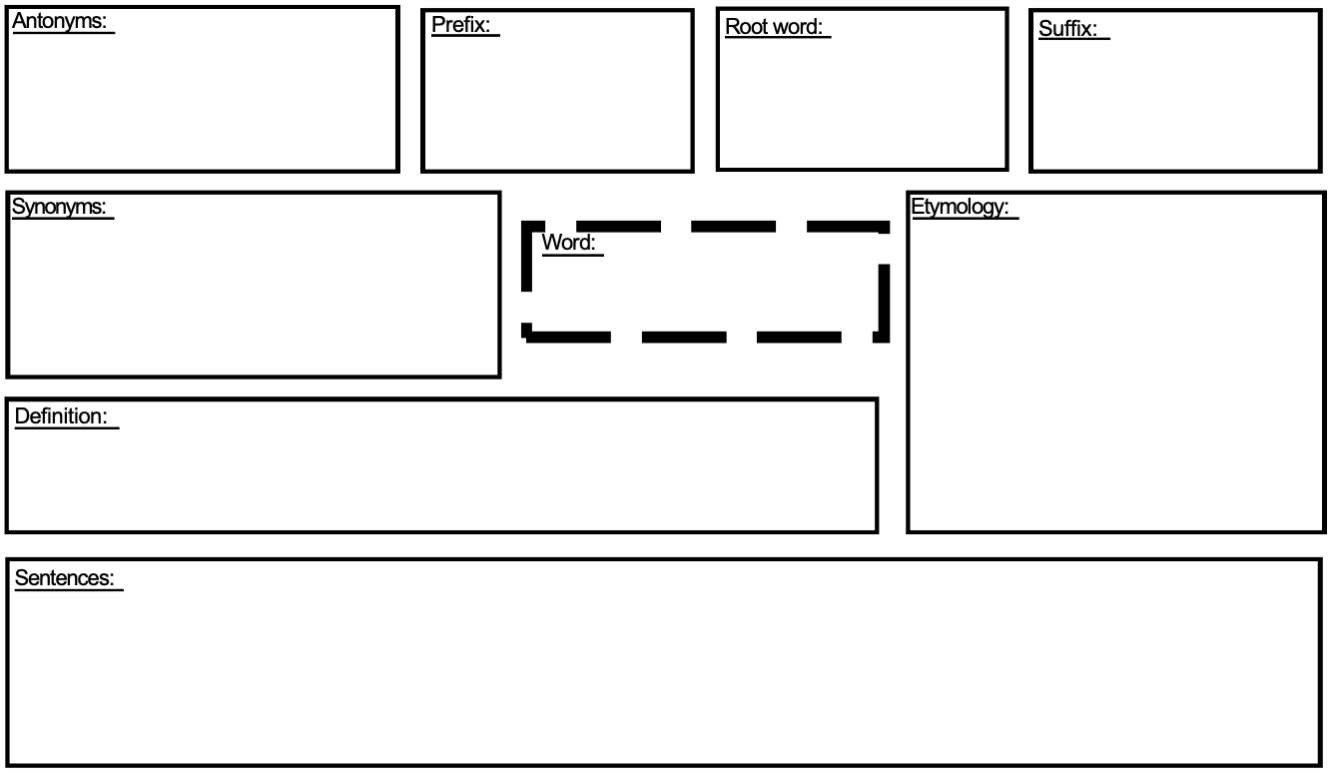
Reading

Complete Reading Eggs Lessons daily.

- Monday
- Tuesday
- Wednesday
- Thursday
- Friday

Vocabulary

Find a word from weekly overview list to complete the vocabulary deconstruction grid**.**



Science

Classification
Watch the video and then create your own classification system for your chosen creature.

[Science KS2 / KS3: Classification of organisms - BBC Teach]

Geography

Tools of fieldwork: maps

In this lesson we will be learning about maps. We will begin by learning about different types of maps and their purposes. Finally we will learn how to use four and six figure grid references to find locations on a map.
[Tools of fieldwork: maps (thenational.academy)]

French

Revisit French Phonics. Then work on having a conversation with a partner of family member.
Follow link for this week's lesson.

French: Recap and conversations
https://www.bbc.co.uk/bitesize/topics/z74gcqt/articles/zyvnm39

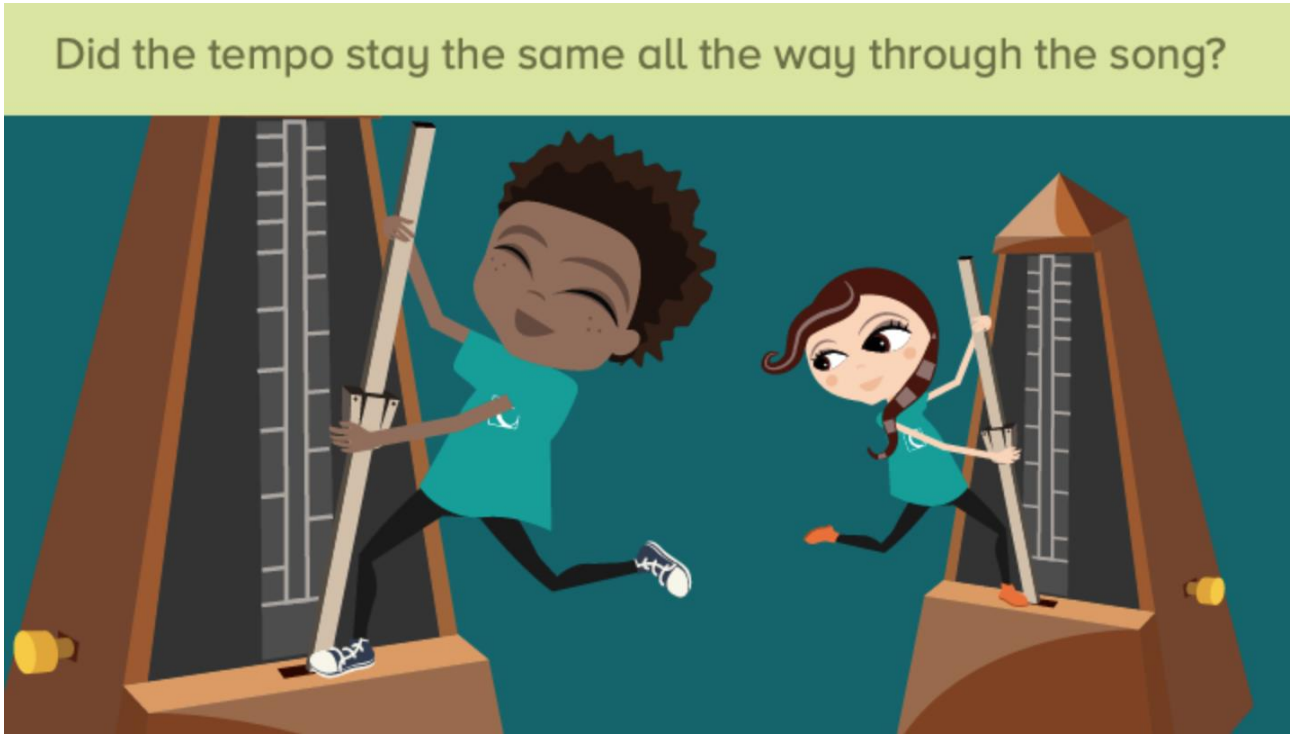
1. a  a / à	2. on  an / en / on	3. k  q / qu / c / k	4. sssh  ch	5. eeuh  e *
6. ay  é / er */ es / ez / et / ai*	7. (h)er  eu / oeu	8. guh  g	9. juh  ge / j	10. nyuh  gn
11. eee  i / y	12. an  in / ain	13. au  o / au / eau	14. wa  oi	15. ooo  ou
16. grr  r / rr	17. sss  s / ç / c+e / c+i	18. t  t / th	19. (n)ew  u	H is silent at the start of a word. French consonants at the end of words are silent except C,F, L, R. Remember Clear French Language Rules.
20. uh  un	21. zzz  z	22. eean  ien	23. air  ei /ai * è / ê er*	

Hello!	Bonjour Salut	Good day Hi
How are you?	Comment ça va? Ça va trés bien! Ça va comme ci, comme ça. Ça va bien, merci. Ça ne va pas bien. Ça va mal.	How are you? I'm very well. So, so. Good, thank you. Not so good. Bad.
What's your name?	Comment t'appelles-tu? Je m'appelle...	What are you called? I am called ...
How old are you?	Quel âge as-tu? J'ai ... ans. Et toi?	What age are you? I am (have) ... years. And you?
Colours	What is your favourite colour?	Quelle est votre couleur préférée?
Animals	What is your favourite animal?	quel est votre animal préféré?
Good bye	Au revoir À bientôt	Good bye See you soon

Music

- Happy was the most successful song of 2014.

https://www.youtube.com/watch?v=eAR_Ff5A8Rk



Art

Introduction to collage and experimentation with paper

In this lesson, pupils will create a variety of experiments using paper to create different collages. They could be ripped or cut, layered or spaced-out, neat or messy. Pupils will find that collage has a wide variety of possible outcomes. This lesson includes some physical activity and equipment beyond pen, paper or pencil. Please make sure your child is adequately supervised.

Introduction to collage and experimentation with paper (thenational.academy)

PE

Get plenty of fresh air and exercise, if you can

Reactive jumping, and throwing with a slinging action

Children will be involved in activities including practising reactive jumping and rotational sling-throwing over varying distances. Please note this lesson will require some physical exercise and additional equipment, beyond a pen, pencil or paper. Please see the equipment slide near the start of the lesson video and make sure your child is adequately supervised when equipment is required. Parents and carers are responsible for ensuring that children follow the correct safety advice provided at the start of this lesson and the instructions the teacher gives during the lesson. Parents and carers are responsible for supervising activities where required and for seeking medical advice in advance if your child has a medical condition that may prevent them taking part in physical activity.

https://classroom.thenational.academy/lessons/reactive-jumping-and-throwing-with-a-slinging-action-cdhk2t