

# Home Learning Pack Science Week Year 5 Spring Week 10



#### **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.educationguizzes.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/

# 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.

:::ible::::						
ibly		 		 		 
incredible		 	,	 		 
incredibli	<i>y</i>	 	,	 	- ,	 

#### Monday English

# What is Direct speech?

Direct speech is when the exact words that have been said by a person are written down inside inverted commas.

 Inverted commas (speech marks) go before and after direct speech. They surround what was said by the speaker. For example:

"I'm pleased to have raised so much money," said Captain Tom.

Today you will take part in a news conference. Listen carefully and ask appropriate questions in order to form the basis of a report.

- 1. Using the 6 cards, label them: Who, What, When, Where, Why and How
- 2. During each interview, attempt to identify:

WHO

WHAT

WHEN

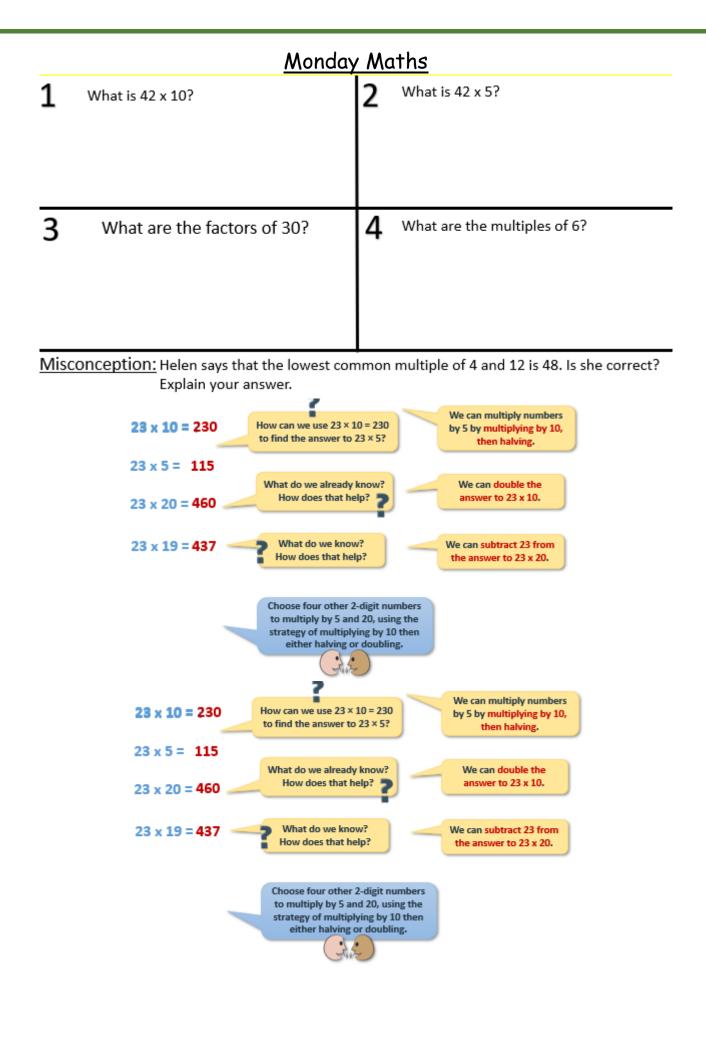
WHERE

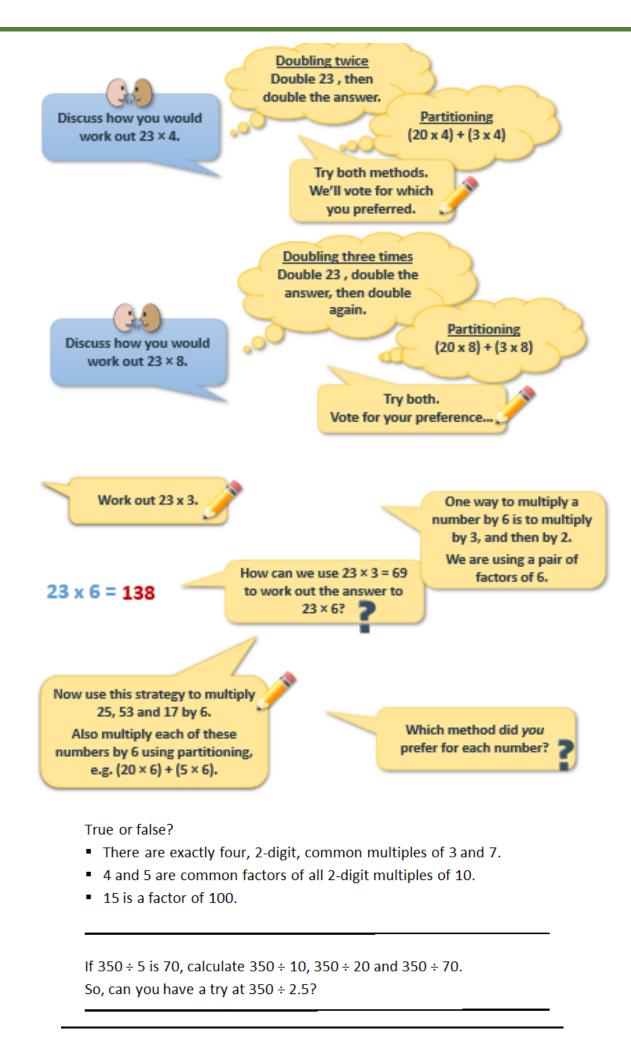
**WHY** 

HOW

3. Write down a quote, identify main characters and list key words.

As a class, decide on the most accurate As a class, decide on the most accurate answer to each question: answer to each question: Barnacle Bill: Fddie: • Who: • Who: • What: What: • When: • When: • Where: • Where: • Why: • Why: • How: • How: Quote from the witness: Quote from the witness:





#### Using mental strategies to multiply

Sheet 2

1. Solve these:

36 × 10 36 × 2 36 × 3

2. Use your answers from question 1 to easily solve:

36 × 5 36 × 20 36 × 4 36 × 8 36 × 6

3. Use similar strategies to solve the following:

76 × 5

64 × 20

53 × 6

 $82 \times 4$ 

 $37 \times 8$ 

 $153 \times 5$ 

 $240 \times 20$ 

In each case note down what you did to find the answer, e.g. 'Multiplied by 10 and then doubled'.

Does 24 x 30 give the same answer as 34 x 20?
 Make a prediction. Use mental strategies to solve each multiplication and test your prediction.

#### Challenge

Can you find a strategy for quickly solving these:

 $36 \times 50$   $36 \times 200$   $36 \times 60$ 

(Hint! Look at what you already know.)

# Monday Science

Research the parts of a flower and label the diagram below.



If you can get a lily - try and dissect it as below:

Carefully dissect your flower and examine each part using a magnifier.

Arrange each dissected part separately on your large strip of paper and label them to make a poster for the working wall.

While you are working, discuss the parts you are labelling and how they are involved in pollination and fertilisation.



#### Tuesday English

1. Convert your direct speech into indirect speech.

# For example:

Direct speech - "I taught them everything I knew" said Barnacle Bill

Indirect speech - When interviewed, Barnacle Bill reported that he had taught the family everything he knew.

2. Write down the reported quotes in your English books.

# **Newspaper Article**

 We are going to be writing a newspaper article about the events in 'Kensuke's Kingdom'.

# We will need to focus on the:

- Orientation
- The main body the why and the how
- Re-orientation

Orientation: Things to include

Who

What Headline paragraphs

When rhetorical questions

Where humour alliteration

Main body of text:
formal language

Why past tense (except re-orientation)

How quotes

Re-orientation: pictures/photos with captions.

Summary

Link to present/now Let's share key features of a

newspaper article using powerpoint

Write down as many things about your orientation topic that you can remember from 'Kensuke's Kingdom'.

#### **Planning your orientation**

Orientation How to plan your orientation: structure

 1 sentence that includes the who, what,

where and when.

 Then expand on these pieces of

information.

Use the cut out squares.

• Use bullet points.

• Do NOT write in full sentences.

 Note down ideas of what you want to include about the who, what, where and when.

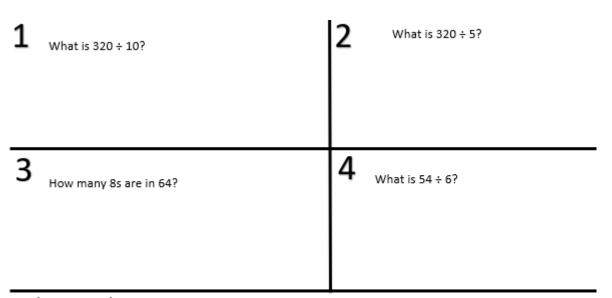
# Time to think of a Headline for your Newspaper Article

# Headline

Your headline needs to be...

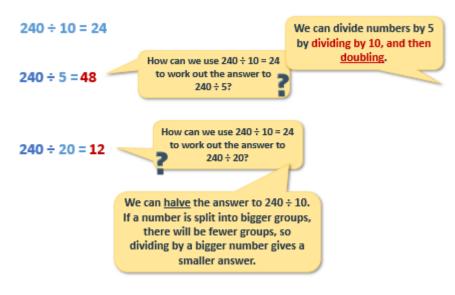
- Short and snappy
- Use alliteration
- Be based on the events of 'Kensuke's Kingdom'

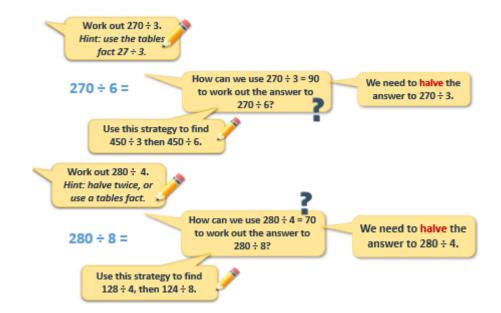
# Tuesday Maths



Misconception: Marleen says that the bus stop method is the only way to find out the answer to division questions. Is she correct?

Use mental strategies to divide by 5, 20, 6, 4 and 8.





# Mental strategies for division

Sheet 1

1. 
$$360 \div 10$$
  $360 \div 20$   $360 \div 5$ 

3. 
$$420 \div 10$$
  $420 \div 20$   $420 \div 5$ 

5. 
$$150 \div 3$$
  $150 \div 6$ 

7. 
$$450 \div 3$$
  $450 \div 6$ 

10. 
$$216 \div 2$$
  $216 \div 4$   $216 \div 8$ 

# **Problem solving and reasoning questions**

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?

True or false?

- There are exactly four, 2-digit, common multiples of 3 and 7.
- 4 and 5 are common factors of all 2-digit multiples of 10.
- 15 is a factor of 100.

If  $350 \div 5$  is 70, calculate  $350 \div 10$ ,  $350 \div 20$  and  $350 \div 70$ .

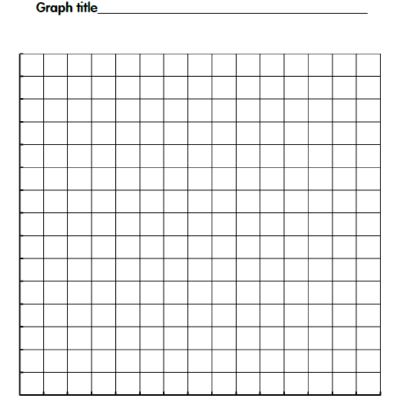
So, can you have a try at  $350 \div 2.5$ ?

# Tuesday Science and DT

Use the instructions below to create a seedling pot to grow a seed in. Watch the video to learn about the conditions carrots need to grow.

https://www.youtube.com/watch?v=mRdavbBf2Gs

We are going to monitor the height of our plants to check our crops are developing healthily.



#### ORIGAMI NEWSPAPER SEEDLING POTS







First: using a double page newspaper sheet, cut in half down the center. Fold in half, and cut again to make 4 squares. Then take one square (above) and fold diagonally to mark center point. Fold each corner so the points meet the center.

Repeat process again.





Fold up and divide into thirds evenly, making crisp creases. Unfold, and do this again in the other direction. When unfolded, the fold lines will resemble a tic-tac-toe grid.







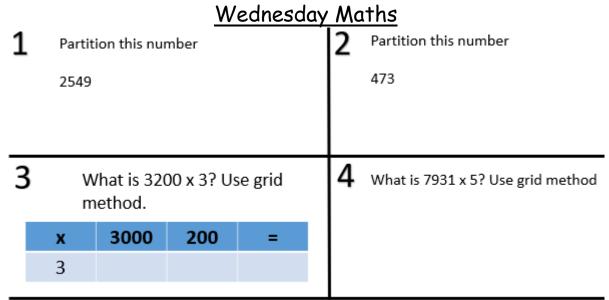
Open one point of the square. Take the upper left corner and fold it straight across to meet the fold line half way. Then take the upper right corner and do the same. Fold the upper tab down into the center of the pot, and tuck the point in.







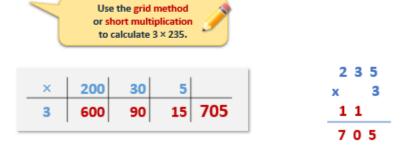
Do the same thing on the opposite side, and the pot is complete. Fill pot two-thirds with soil, in preparation for planting.



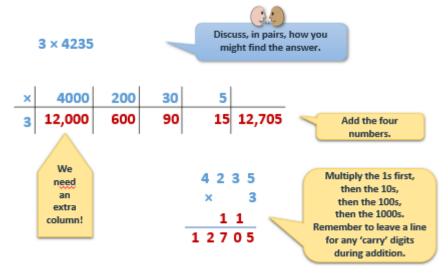
#### Misconception:

Rodney says that 8765 partitioned is 8000 700 600 5. Is he correct? Explain your answer.

Day 1: Use short multiplication to multiply 4-digit by 1-digit numbers; Use rounding to approximate.



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#### Multiplication

Sheet 1

Agree a range for each answer with a partner. Use a written method to find the answers, unless you see one you can work out mentally!

$$1. 3 \times 3421$$

$$2. 4 \times 4923$$

4. 
$$5 \times 6748$$

7. 
$$8267 \times 5$$

$$8.4278 \times 8$$

Does 2340 x 8 give the same answer as 4320 x 4? Explain how you are certain that your answer is correct.

Choose a strategy for each of these three multiplications. Explain why it is not sensible to use the same method for all three.

(i) 
$$340 \times 5 =$$

(ii) 
$$421 \times 7 =$$

# Wednesday English

#### What do you need to identify?

Headline

Orientation:

Who

What

When

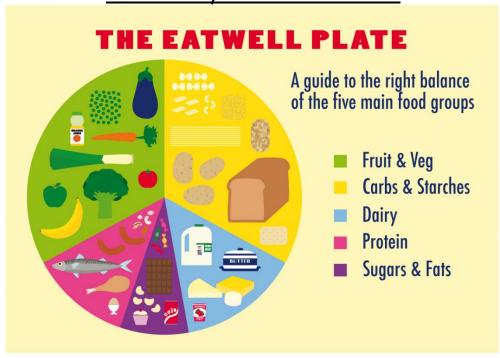
Where

#### Here's mine:

In a dramatic series of events last night, a young boy fell overboard from his family's boat into the stormy water of the Coral Sea (off the east coast of Australia).

Michael Finnegan (12 years old today) was enjoying a round-the-world trip with his family when it is believed he lost his footing and fell into the sea.

# Wednesday Science and PDW



Why do we need these things in our diet?			
Protein			
Carbohydrates (starchy foods)			
Dairy			
Fruit and Vegetables			
Foods high in sugar and fat			

Why can it be difficult to have a healthy diet?

reason 1			
reason 2			
reason 3			
reason 3			

Why is a smoothie a great way to get your 5 a day?

# Thursday Maths

What is 439 x 6? Use grid method.

Partition 7699.

Which number is closer to 20,000?

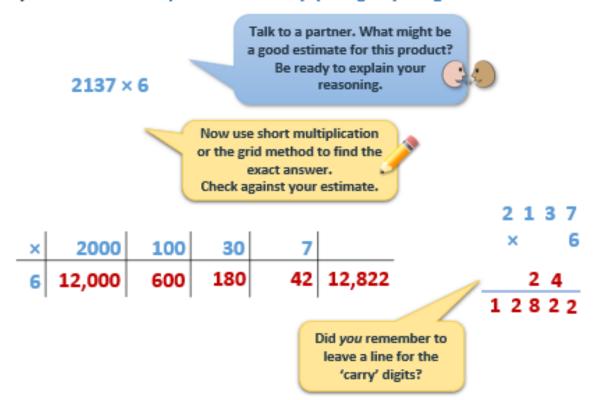
What is 7458 x 4? Use short multiplication.

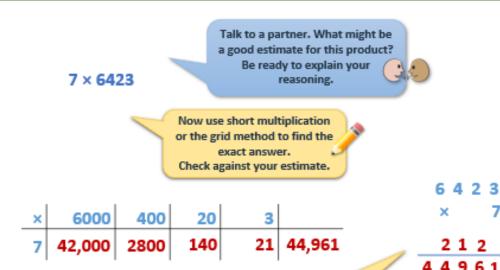
- 19,231
- 17,999
- 19,132

#### Misconception:

Dereck says that 6543 is closer to 6000 than 5721. Is he correct? Explain your answer.

Day 2: Use short multiplication to multiply 4-digit by 1-digit numbers.





Did you remember to leave a line?

#### **Multiplication Challenge**

Sheet 2

#### Estimate before doing the calculationsl

- 1. Which of these gives the closest answer to 20,000?
  - a)  $4361 \times 5$  b)  $7036 \times 3$  c)  $2973 \times 6$
- 2. Which of these gives the closest answer to 40,000?
  - a)  $9892 \times 4$  b)  $8051 \times 5$  c)  $5754 \times 7$
- 3. Which of these gives the closest answer to 60,000?
  - a)  $9451 \times 7$  b)  $7444 \times 8$  c)  $7023 \times 9$
- 4. Which of these gives an answer between 25,000 and 30,000?
  - a)  $5137 \times 6$  b)  $6205 \times 4$  c)  $3629 \times 8$

\_\_\_\_ x

Using the digits 3, 5, 6, 7 and 9, how close can you get to 20,000?

#### Thursday English

#### Here's mine:

The Finnegan family set sail from Southampton on September 10<sup>th</sup> 1987 in their small boat, the Peggy Sue. Travelling with Michael were his mother (Sue) and his father (John), as well as the family pet dog, Stella. So far on their journey, they have visited Spain, Cape Verde, Brazil, Cape Town, Perth and Sydney. John, whose idea it was to set off on the trip, said that the journey was the trip of a lifetime and that so far it had been an amazing adventure.

According to the Finnegans, the evening of the incident had been largely uneventful, although Mrs Finnegan had been taken ill with stomach cramps. John and Sue went to bed at around 10pm on the night of the incident, leaving Michael steering the boat on deck (the self-steering had broken). It is thought that Stella the dog had been wandering around and possibly playing with Michael's football, because when John awoke in the middle of the night, all three had disappeared.

Speaking to BBC news this morning, Sue, Michael's mother reported that the family are so worried about the boy. He's all alone and could be anywhere by now. And that they need to find him.

- 1. You must have finished your orientation.
- 2. Write the main body of the article.
  - Why
  - How
- 3. Your main body must include:
  - reported speech
  - additional information in brackets
  - formal, 3rd person.

# Thursday Science

# Re-growing spring onions





Step 1: Cut the root ends off some spring onions

Step 2: Place them in a shallow bowl of water





Step 3: Replace the water every day and watch your new onions grow!

- Research some methods of plant propagation that we have not discussed yet.
- Use your research to write a 'How to' gardeners' guide to help new gardeners get started on growing their own ingredients without seeds.
- Remember to use all the features of instruction texts and illustrate each step of your methods.
- You might like to present your guide as mini-booklet, leaflet, power point or video.

#### Thursday Science and PDW

#### Working within a budget

Your business group has a budget of £1 per group member.

You will use this to buy the ingredients you need to add to the produce you are growing in order to make your food product.

If you do not have enough money in your budget for the ingredients you plan to use, you will need to adapt your ideas to stay within your budget.

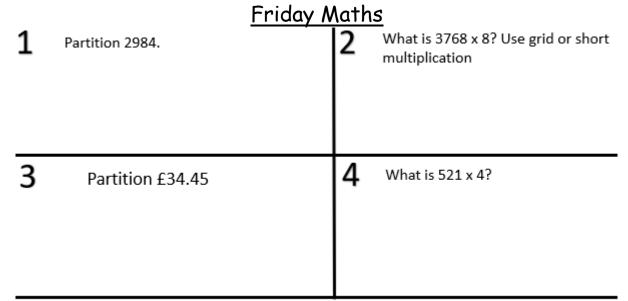
You will be using an online shopping website to find the cost of your ingredients. Remember to keep a total of how much your ingredients are going to cost-what method will you need to calculate this?

To make the most of your budget, make sure you look for good deals on your
ingredients and think about the quantity of ingredients you need for your
recipe.

Ingredients Shopping List:

Ingredient	Quantity (ml/g)	Price

Remember to check your working out. Accurate calculating will help you to stay within your budget.



#### Misconception:

Trotter says that £79.45 partitioned is £70 45p. Is he correct? Explain your answer.

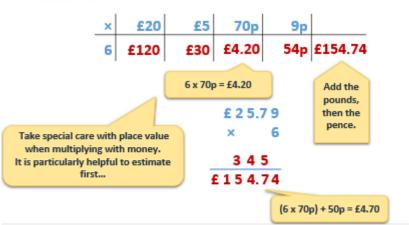


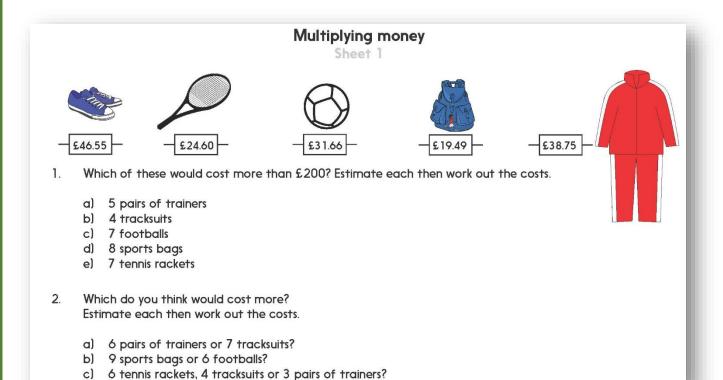
Use these four digits in any order you like to make a 4-digit number. Multiply your number by 7, making an estimate first, then choose short multiplication or the grid method to find the exact answer.

Day 3: Use short multiplication to multiply 4-digit numbers (including amounts of money) by 1-digit numbers.

A shop sells 6 hoodies, each priced £25.79. We are going to find the total amount.

6 x £25.79





# **Problem solving and reasoning questions**

Does 2340 x 8 give the same answer as 4320 x 4?

Explain how you are certain that your answer is correct.

Choose a strategy for each of these three multiplications.

Explain why it is not sensible to use the same method for all three.

(i) 
$$340 \times 5 =$$

(ii) 
$$421 \times 7 =$$

(iii) 
$$350 \times 9 =$$

Χ

Using the digits 3, 5, 6, 7 and 9 once each, how close can you get to 20,000?

#### Friday English

# Reorientation:

bring the story up to date

#### Here's Mine:

The search for Michael is underway, with police and coastguards scouring the area in the hope of finding him safe and well. Michael's parents have been on contact with authorities in Austrailia, New Zealand and Fiji. They encouage anyone who may have had contact with Michael to get in touch with them immediately.

- 1. Finish the main body of your newspaper report.
- 2. Write your reorientation
  - bring the story up to date
  - 2-3 sentences
- 3. Publish your newspaper report in best using the newspaper template.

# Friday Science and DT

After creating your recipe based on healthy food choices, make your smoothie.

#### **Evaluation**

What are the strengths of your smoothie?

Would you make any changes to your smoothie if you made it again?

Was it easy or difficult to make? Why/Why not?

