

# Year 4

## Independent Maths & English Work Booklet

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# Pirate-Themed Mental Multiplication and Division Code Breaker



Use the code breaker to reveal the pirate-themed words.

Find the words you reveal in the word search.

a	b	c	d	e	f	g	h	i	j	k	l	m
3	4	6	8	9	12	15	16	18	20	21	24	27

n	o	p	q	r	s	t	u	v	w	x	y	z
28	30	33	36	40	44	48	56	64	72	80	88	96

	Answer	Letter
$32 \div 8$		
$7 \times 8$		
$18 \div 3$		
$24 \div 4$		
$24 \div 8$		
$7 \times 4$		
$27 \div 3$		
$72 \div 8$		
$5 \times 8$		

$11 \times 3$		
$8 \times 3$		
$12 \div 4$		
$7 \times 4$		
$7 \times 3$		

$11 \times 4$		
$24 \div 8$		
$6 \times 3$		
$6 \times 4$		

	Answer	Letter
$11 \times 3$		
$9 \div 3$		
$10 \times 4$		
$8 \times 5$		
$10 \times 3$		
$12 \times 4$		

$48 \div 8$		
$9 \div 3$		
$11 \times 3$		
$12 \times 4$		
$24 \div 8$		
$6 \times 3$		
$7 \times 4$		

$18 \div 3$		
$7 \times 8$		
$6 \times 8$		
$6 \times 4$		
$12 \div 4$		
$11 \times 4$		
$11 \times 4$		

# Pirate-Themed Mental Calculations Code Breaker

p a r o t f g h i j k l  
m n p p q r s t u p w x  
y z a l c c u t l a s s  
k l b n a p q r s r u v  
w x y u a n c d e r g h  
s j k l c n k p q o s t  
n v w x y c s b c t e f  
a h i j k l a n o p q r  
i s u v w x i n a b c d  
l f a h i j l l e n o p  
q c a p t a i n y e a b  
c d e f g h i j k l r n



# Year 4 Maths Activity Mat

## Section 1

Order these numbers from smallest to largest:

6788 8677 7866 8766

--	--	--	--



## Section 4

A postman drives 42 miles a day. How many miles will he drive in 5 days to the nearest 10 miles? What about the nearest 100 miles?

nearest 10 miles =

nearest 100 miles =

## Section 2

Fill in the missing numbers on this number line:

-4		0			6	
----	--	---	--	--	---	--

## Section 3

Convert these times to 24-hour clock times:

a) 1:34 p.m. =

b) 10:43 p.m. =

c) 4:22 p.m. =

d) 9:12 p.m. =



## Section 5

Fill in the missing number:

$$\begin{array}{r} 8 \quad 7 \quad 1 \\ - 1 \quad 9 \quad 9 \\ \hline 6 \quad 7 \quad \square \end{array}$$

## Section 6

Milly has a piece of ribbon 75cm long. She cuts it into 3 equal pieces. How long is each piece?

## Section 7

Asha bought a bag priced at £10.25 and a hair brush for £2.50. How much did she spend altogether?

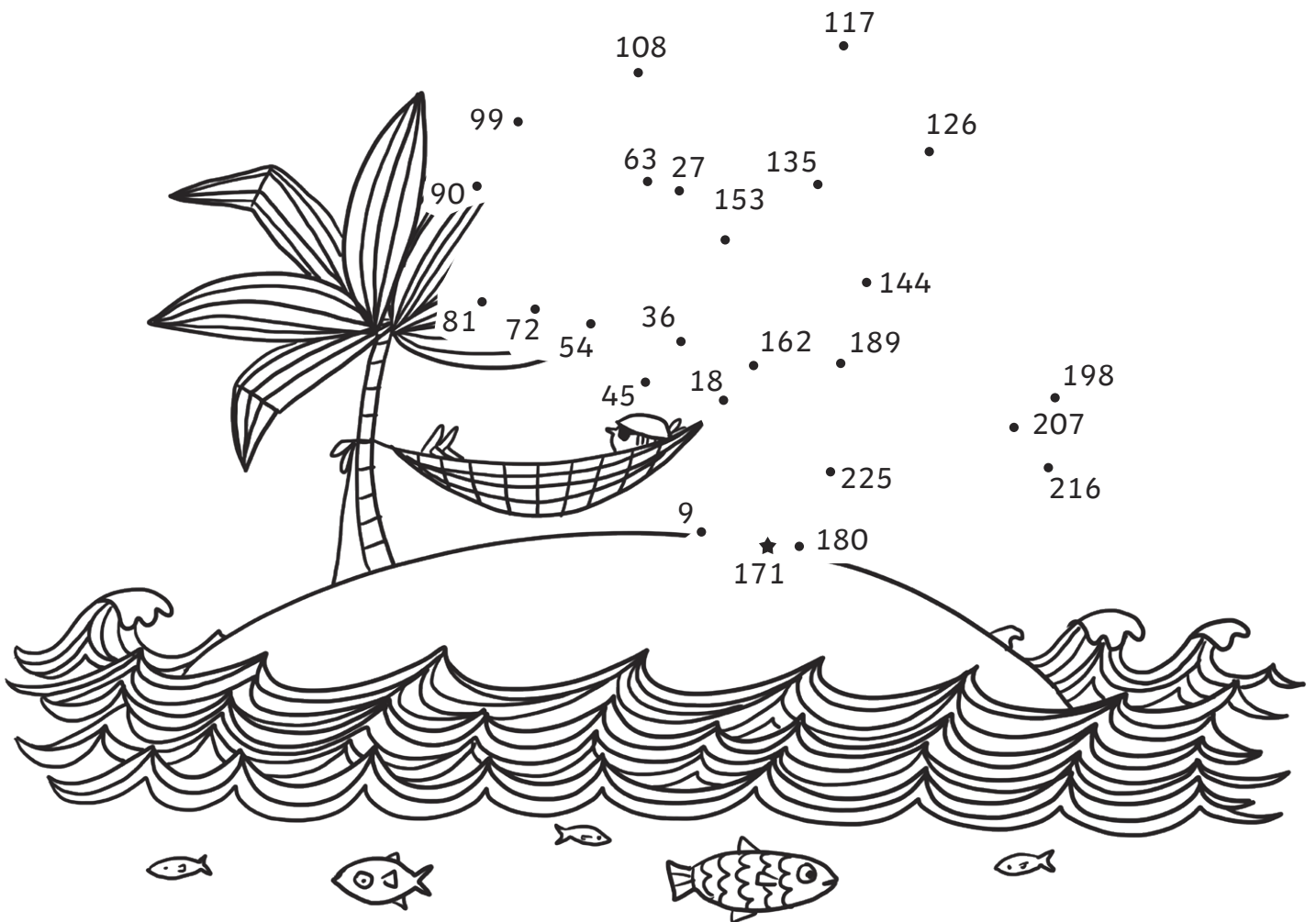
## Section 8

Write the decimals which match the fractions:

	Decimal
$\frac{1}{10}$	
$\frac{3}{4}$	

# Pirate Maths Counting in Multiples Dot to Dot

Count on in multiples of nine and join the dots to complete the picture. A star dot shows the end of a line. When you reach a star dot, start a new line from the next multiple.



# Pirate-Themed Mental Calculations Mosaic

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

Black =  
100 - 249

Orange =  
250 - 399

Grey =  
400 - 549

Yellow =  
550 - 699

Blue =  
700 - 849

Green =  
850 - 999

$720 + 80$	$659 + 80$	$452 + 60$	$621 - 90$	$551 - 40$	$888 - 60$	$909 - 90$	$987 - 50$	$900 - 60$
$777 + 40$	$892 - 60$	$395 + 20$	$666 + 60$	$408 + 80$	$627 + 90$	$792 + 60$	$812 + 90$	$915 - 50$
$782 + 60$	$689 + 80$	$509 + 30$	$783 - 60$	$399 + 60$	$818 - 80$	$914 - 90$	$245 + 60$	$741 + 80$
$784 - 40$	$751 + 50$	$809 + 30$	$879 - 30$	$606 - 80$	$852 - 70$	$678 + 90$	$412 - 70$	$743 - 30$
$707 + 70$	$808 - 80$	$752 + 70$	$815 + 10$	$512 + 20$	$766 + 50$	$694 + 40$	$298 + 30$	$794 - 50$
$725 - 60$	$548 + 60$	$589 + 90$	$529 + 20$	$460 - 60$	$452 + 90$	$717 - 70$	$527 + 80$	$747 - 60$
$707 - 80$	$478 + 80$	$214 + 60$	$314 - 30$	$299 - 20$	$415 - 60$	$324 + 20$	$487 + 70$	$521 + 60$
$479 + 80$	$573 + 80$	$384 + 10$	$401 - 20$	$222 + 60$	$333 + 60$	$234 + 50$	$555 + 80$	$788 - 90$
$718 - 20$	$551 + 30$	$345 + 20$	$369 - 50$	$344 - 80$	$409 - 40$	$244 + 60$	$607 - 30$	$712 - 40$
$506 + 60$	$706 - 60$	$156 + 20$	$208 - 40$	$322 - 80$	$156 + 60$	$127 + 60$	$549 + 10$	$702 - 10$

**Extra Challenge:** Use the inverse operation to write a related fact for each calculation.

$$548 + 60 = 608$$

$$788 - 90 = 698$$

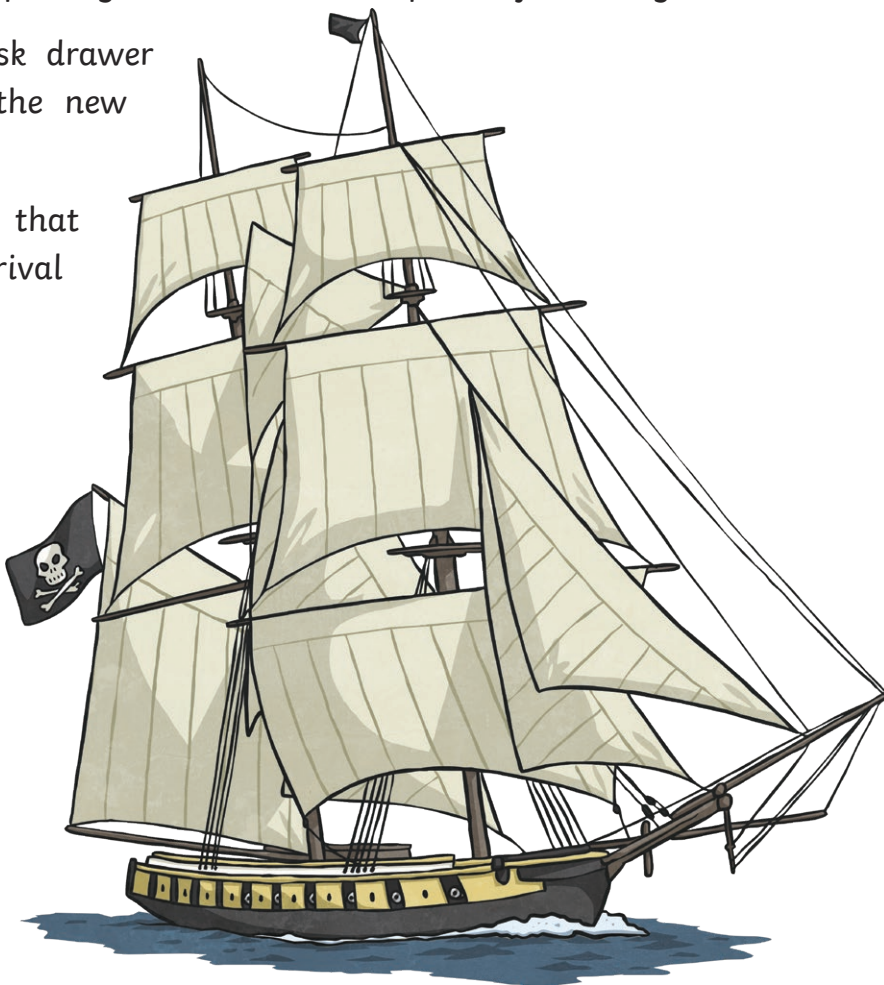
# The Mystery of the Pirate Captain Maths Mystery Game

After many years captaining the Jolly Jack pirate ship, Captain Olly Eyepatch has decided to retire to a sunny island with all of his treasure. Captain Olly has gathered his fellow pirates together to announce who will be replacing him as the new captain of the Jolly Jack.

However, when he unlocks his desk drawer to collect the scroll announcing the new captain, it has gone!

Immediately, Captain Olly realises that one of his sworn enemies from a rival pirate ship has stolen it!

Help Captain Olly reclaim the scroll so that he can officially announce the new captain of the Jolly Jack.



# The Mystery of the Pirate Captain

## Clue 1

Order each set of numbers from smallest to largest. Take the largest number in each set and colour it in on the table below. Rearrange these words to find the first clue.

1. 

502
-----

250
-----

255
-----

550
-----

205
-----

2. 

2161
------

2612
------

1261
------

6210
------

1623
------

3. 

8
---

8.3
-----

8.4
-----

8.6
-----

8.2
-----

4. 

12.53
-------

12.23
-------

12.05
-------

12.35
-------

12.03
-------

5. 

67.84
-------

68.74
-------

67.48
-------

68.47
-------

64.87
-------

<b>8.46</b> monkey	<b>6210</b> the	<b>68.47</b> short	<b>12.35</b> hair
<b>550</b> captain	<b>12.53</b> male	<b>8.46</b> rat	<b>12.23</b> male
<b>502</b> female	<b>8.6</b> isn't	<b>68.74</b> new	<b>67.84</b> long

Clue 1: \_\_\_\_\_





# The Mystery of the Pirate Captain

## Clue 2

Check these calculations. If a calculation is right, put a tick. If it is wrong, put a cross.

Count up the number of ticks and crosses.

If there are more ticks than crosses, the new captain has long hair.

If there are more crosses than ticks, the new captain has short hair.

	Right ✓	Wrong ✗
$6 \times 9 > 7 \times 8$		
$125 + 42 = 200 - 33$		
$25 \div 10 = 2.05$		
$7 \times 3 \times 4 = 84$		
$\frac{1}{4} = 0.4$		
2 hours = 150 minutes		
$\frac{1}{2}$ of 30 = $\frac{1}{4}$ of 60		
$\frac{2}{5}$ of 60 = 24		
$1926 + 100 = 2126$		
<b>Total</b>		

Clue 2: \_\_\_\_\_



# The Mystery of the Pirate Captain

## Clue 3

Use your knowledge of inverse operations to find the missing number in each triangle. Colour the answers in on the table and rearrange these words to find the third clue.



$$\begin{array}{ccc} 15 & & \\ \div & & \div \\ \triangle & \times & 5 \end{array}$$

$$\begin{array}{ccc} 84 & & \\ \div & & \div \\ 7 & \times & \triangle \end{array}$$

$$\begin{array}{ccc} 56 & & \\ \div & & \div \\ \triangle & \times & 8 \end{array}$$

$$\begin{array}{ccc} 63 & & \\ \div & & \div \\ 7 & \times & \triangle \end{array}$$

$$\begin{array}{ccc} \triangle & & \\ \div & & \div \\ 6 & \times & 8 \end{array}$$

$$\begin{array}{ccc} 145 & & \\ - & & - \\ \triangle & + & 90 \end{array}$$

$$\begin{array}{ccc} 418 & & \\ - & & - \\ 40 & + & \triangle \end{array}$$

$$\begin{array}{ccc} \triangle & & \\ - & & - \\ 165 & + & 233 \end{array}$$

3 <b>the</b>	74 <b>short</b>	388 <b>long</b>	54 <b>hair</b>
12 <b>eyepatch</b>	7 <b>new</b>	398 <b>not</b>	55 <b>wear</b>
26 <b>pet</b>	9 <b>does</b>	48 <b>captain</b>	378 <b>an</b>

Clue 3: \_\_\_\_\_

# The Mystery of the Pirate Captain

## Clue 4

Read the 24-hour digital times and match them to the times written in the table. Rearrange the words to find the fourth clue.



<p><b>has</b></p> <p>Twenty minutes past three in the afternoon</p>	<p><b>rat</b></p> <p>Eight minutes past eight in the evening</p>	<p><b>new</b></p> <p>Ten minutes past four in the afternoon</p>	<p><b>the</b></p> <p>Quarter past one in the afternoon</p>
<p><b>monkey</b></p> <p>Half past ten in the evening</p>	<p><b>parrot</b></p> <p>Quarter past two in the afternoon</p>	<p><b>captain</b></p> <p>Half past nine in the evening</p>	<p><b>short</b></p> <p>Eight minutes past seven in the evening</p>
<p><b>long</b></p> <p>Twenty minutes to nine in the evening</p>	<p><b>a</b></p> <p>Twenty minutes to seven in the evening</p>	<p><b>hair</b></p> <p>Ten minutes to seven in the evening</p>	<p><b>pet</b></p> <p>Ten minutes to six in the evening</p>

Clue 4: \_\_\_\_\_



# The Mystery of the Pirate Captain

Name	Male or Female?	Hair Length	Wears an Eyepatch?	Pet
Albatross Tack	Male	Short	No	Monkey
Barnacle Burr	Male	Short	Yes	Rat
Crusty Newbury	Male	Long	Yes	Monkey
Doubloon Dora	Female	Short	Yes	Parrot
Evil Grin Archer	Male	Long	No	Rat
Frightful Fredrick	Male	Long	Yes	Monkey
Golden Hair Sutton	Female	Short	No	Monkey
Harpy Sheldon	Female	Long	No	Rat
Lost Treasure Bradly	Female	Long	Yes	Parrot
Mermaid Layre	Female	Long	No	Monkey
Overboard Oliver	Male	Short	Yes	Parrot
Privateer Fletcher	Female	Short	Yes	Rat
Quartermaster Viktor	Male	Long	No	Monkey
Silver Penny	Female	Short	No	Rat
Toothless Tom	Male	Short	Yes	Parrot
Vulture Arney	Female	Short	No	Parrot

The new captain will be: \_\_\_\_\_



# MIDWEST EXPRESS

## TORNADO RIPS THROUGH TOWN

**Devastation hit the American Midwest yesterday as one of the largest tornadoes in living memory ripped through the town of Greensburg.**

Greensburg, a small farming town in south-west Kansas with a population of less than 2000 people, was left in ruins as the tornado destroyed buildings, uprooted trees and overturned cars.

Local forecaster Michael Lacy described the tornado as "Massive, and about a mile wide."



With windspeeds of up to 266 mph, the tornado tore through businesses, schools and homes. Even the local hospital and water tower were destroyed.

Many people were hurt and are currently being cared for in neighbouring towns.

There are over 1000 tornadoes reported in the USA every year. That's more than anywhere in the world.

The American Midwest and South - a region known as 'tornado alley' - is the worst-affected area, where winds can sometimes reach 300 mph.

Officials will be visiting Greensburg today to assess the damage.

1. How many people live in Greensburg?

---

2. The Greensburg tornado had windspeeds of up to how many miles per hour?

---

3. Using the report, explain what 'tornado alley' is.

---

---

4. What do you think the people thought about the disaster in the neighbouring towns?

---

---

# SPaG Mat

Add the correct pronouns to the sentence:

Rita heard a grunting noise from inside the cave, which made \_\_\_\_\_ shudder. There was definitely something inside \_\_\_\_\_.

Now write another sentence to carry on the story with an example of a different pronoun. Circle the pronoun you have used.



a

Look at the choices of words within the brackets. Circle the correct word to fit the sentence:

(They/There) was a sudden rainstorm so the children ran inside for (their/there) coats. They decided that they might need umbrellas (two/to/too).

b

Circle the THREE determiners in this sentence.

The two dogs barked at a cat.



c

Mr Whoops has accidentally jumbled two adjectives that he uses to describe his favourite teacher. Can you help him to unjumble them?

rgican

yldreifn



d

Change these adjectives into adverbs.

sleepy - \_\_\_\_\_

messy - \_\_\_\_\_

simple - \_\_\_\_\_

e

Re-arrange this sentence so that it has a fronted adverbial. Don't forget the correct punctuation.

The children made a gigantic sandcastle with much enthusiasm.



f

# Spot Mr Whoops' Mistakes

Mr Whoops is a little bit clumsy ... OK, OK, he's a lot clumsy! Even though he's really trying hard with his writing, he's still accidentally misspelt twelve of his Y3/Y4 key spelling words. Can you spot his mistakes?

Highlight them in the passage of text.

Could you then correct the words at the bottom of the sheet and create a list for Mr. Whoops to practise?

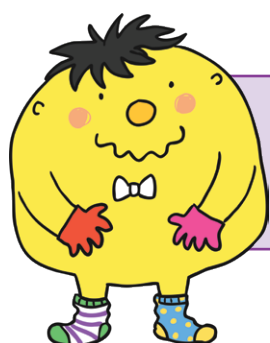


## Activity 2

Ocasionaly, I like to go for a walk in the countryside and look at the naturel beauty around me. I have a great inturest in wildlife. Theirfore, I often take my binoculars with me in case I nowtise any woodland birds or mammals. On a reacent trek, I herd a familiar call and I was lucky enuff to see ate woodpeckers all perched in one tree. What a wonderful suprise to acktually see such a rare species. Planet Eurth is really a delightful place!

Mr. Whoops needs to practise these words:

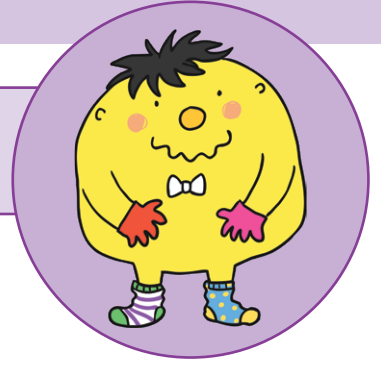
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



Thanks for sorting these for me ... I do get myself in an awful muddle sometimes!

# Fix the Sentence

Can you help Mr Whoops to fix these sentences?



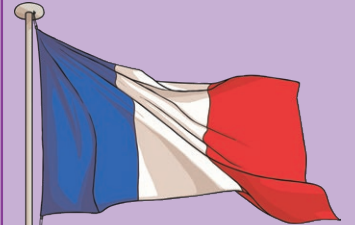
“Watch what happens next, announced the sensasional  
magicion excitedly”.

---



the Countries flag boasts blue white and  
red stripes.

---



i sumtimes play basketbawl with my neybour becos he  
were a amazing player.

---





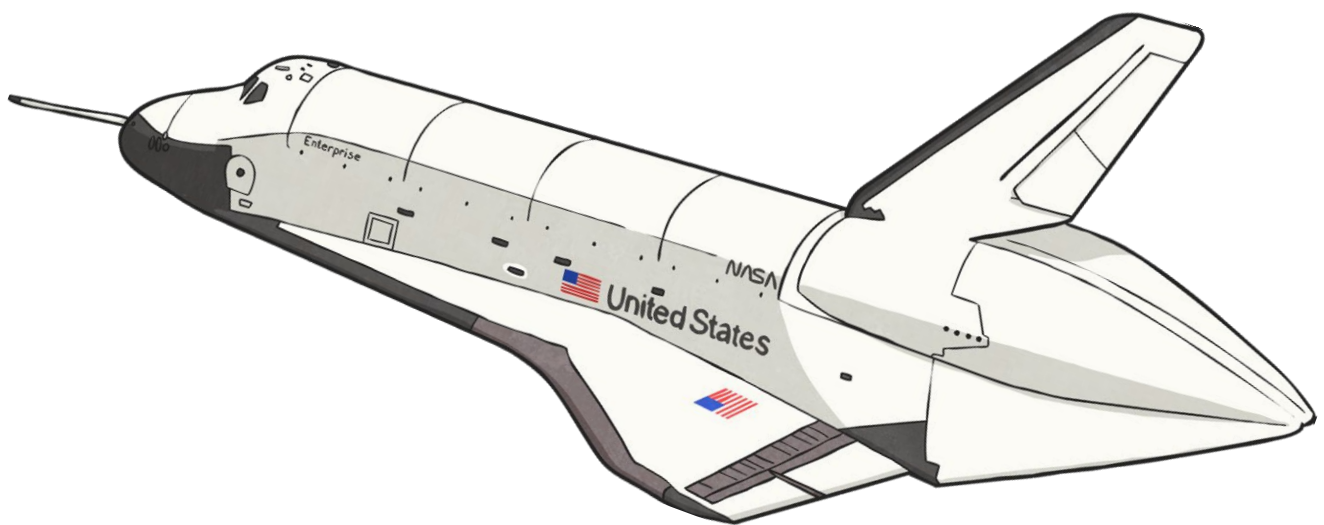
# The Mystery of the Stolen Space Food

A serious crime has been committed before the launch of the space shuttle to Mars. On the night before the rocket was due to launch, everything had been prepared and packed. When the astronauts went in to do their final checks, they found that the space food was missing!

As the detective chief inspector, it is your job to find out who has stolen the food. Your officers have taken down the names and descriptions of the 30 astronauts who were training during the day.

There are also five top secret clues that have been left. To crack the case, you will need to solve each clue and check the information with the list of names.

**Good luck!**



# Clue 1 It's a Mystery!

Look at each of the words and decide whether to use 'a' or 'an' before each of them.

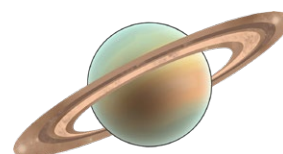
If you use 'a' more, then the culprit is male. If you use 'an' more, the culprit is female.



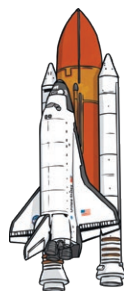
\_\_\_\_\_ spacesuit



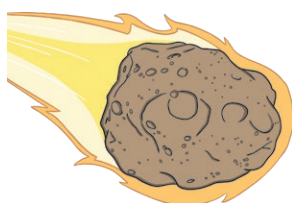
\_\_\_\_\_ astronaut



\_\_\_\_\_ planet



\_\_\_\_\_ rocket



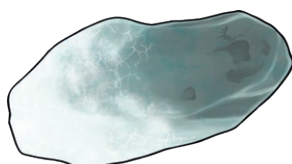
\_\_\_\_\_ asteroid



\_\_\_\_\_ alien



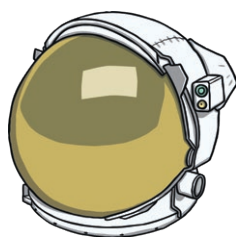
\_\_\_\_\_ eclipse



\_\_\_\_\_ comet



\_\_\_\_\_ star



\_\_\_\_\_ helmet

I used a / an most frequently so the culprit is

\_\_\_\_\_.

## Clue 2 - Is It Perfect?

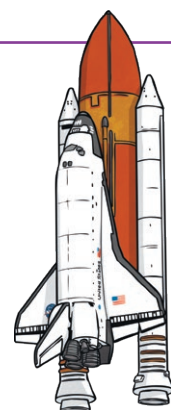
These present perfect sentences were written to describe the space mission. Decide whether they are written correctly or if they have mistakes.

If there are more ticks, then the culprit wears glasses. If there are more crosses, then the culprit does not wear glasses.

Space sentence	✓ or x
The astronauts have prepared for this mission for months.	
"I have waited for this chance for years," said one of the astronauts.	
Unfortunately, the space food has disappeared from the storage cupboard.	
Mission control is delayed the takeoff.	
Tom Planets has eaten all of the space food.	
Luckily, the Space Agency will stored extra food in a safe place.	
Finally, the spare food has been packed into the rocket.	
The rocket has took off safely.	

There were \_\_\_\_\_ crosses and \_\_\_\_\_ ticks.

There were more \_\_\_\_\_ so the culprit wears / does not wear glasses.



## Clue 3 Comma Confusion

These space sentences all include fronted adverbials but only one of them has been punctuated correctly. Find which sentence is correct and the culprit's uniform colour will be revealed.

Space sentence	✓ or ✗
Wearing his orange uniform Mercury prepared for his first space mission.	
As fast as a rocket, the silver meteor zoomed into the Earth's atmosphere.	
Stranded on the moon Helene, noticed the sky was turning navy blue.	
Magnified through, the telescope the craters on the red planet looked enormous.	
Putting on her purple uniform, for the first time Carina felt more proud than she ever had before.	

The colour mentioned in the correctly punctuated sentence is \_\_\_\_\_, so the culprit's uniform is \_\_\_\_\_.



## Clue 4 Lost in a Word Vortex...

Find your way through this vortex of year 3 and year 4 spelling words. By following the path of correctly spelt words, you will find out what the culprit's nationality is. You can only move horizontally or vertically.

### Start

answer	business	century	busy	dissapear	calender	breethe
adress	ocassion	forwords	favourite	weight	centre	experement
bycycle	acidentally	eigth	corght	exersise	circle	Febuary
nowledge	deside	certin	groop	famouse	continue	different
speshul	strate	grammer	hieght	beleive	naturel	early
potatos	women	although	popular	guide	accident	question
enuff	ordinary	exstreme	arive	gard	medisine	dificult
compleet	regular	history	build	important	discribe	ocasionally
notis	hurd	increese	hart	learn	imagine	intrest
promis	offten	supos	raign	probally	actually	posession
peculliar	library	material	experience	particular	length	variouse
naughty	remember	sentance	posishun	pirhaps	thru	oposite
island	seperate	minute	surprize	though	posess	possible

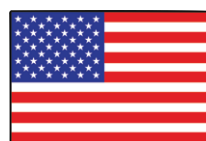
**British**



**Russian**



**American**



**Chinese**



The culprit's nationality is \_\_\_\_\_.

## Clue 5 To Apostrophe or Not to Apostrophe?

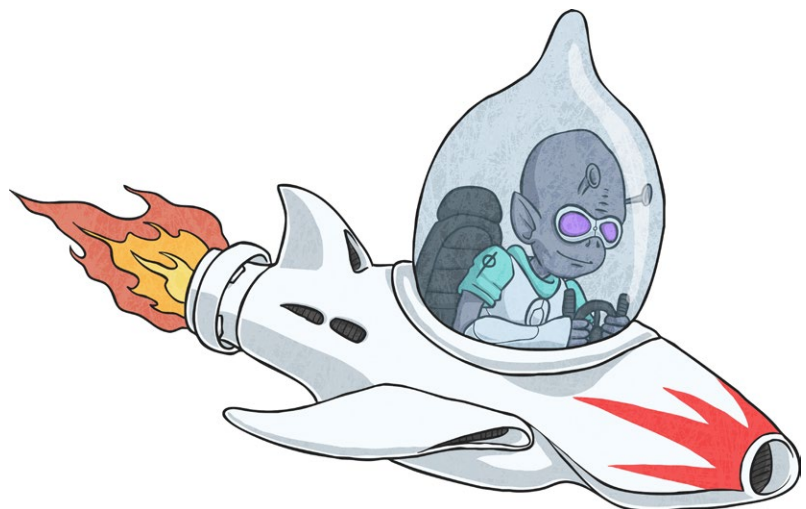
These space sentences all need apostrophes for possession. Read them carefully to check whether they have used apostrophes correctly.

If there are more ticks, then the culprit is less than 30 years old. If there are more crosses, then the culprit is more than 30 years old.

Space sentence	✓ or ✗
As I was entering the space shuttle, I tripped over the captain's boots.	
Space walks are fun but it is important to check your helmets seal's before leaving the space station.	
The planets's rocks will be studied while we are there.	
Seeing the aliens' vehicles approaching made us all panic.	
The astronauts are always happy to see their families' faces when they make video calls back home once a week.	

There were \_\_\_\_\_ crosses and \_\_\_\_\_ ticks.

There were more \_\_\_\_\_ so the culprit is less than / more than 30 years old.



# The Astronaut Descriptions

Uniform Number	Astronaut Name	Male or Female	Nationality	Colour of Uniform	Glasses	Age
1	Astrid	Female	British	Purple	Yes	31
2	Aurora	Female	American	Navy blue	Yes	32
3	Apollo	Male	Russian	Red	No	25
4	Belinda	Female	American	Navy blue	No	26
5	Comet	Male	Chinese	Red	No	35
6	Carina	Female	Chinese	Purple	No	41
7	Cassiopeia	Female	British	Orange	No	29
8	Draco	Male	British	Silver	Yes	38
9	Eos	Male	British	Silver	Yes	36
10	Esther	Female	American	Navy blue	No	33
11	Halo	Male	Chinese	Silver	No	45
12	Helene	Female	American	Orange	Yes	41
13	Juno	Female	British	Red	No	39
14	Leo	Male	Russian	Navy blue	Yes	38
15	Luna	Female	British	Navy blue	No	28
16	Lyra	Female	British	Silver	Yes	26
17	Mars	Male	Russian	Orange	No	25
18	Mercury	Male	Chinese	Orange	Yes	29
19	Miranda	Female	Chinese	Orange	Yes	39
20	Norma	Female	American	Silver	No	31
21	Nysa	Male	American	Purple	No	41
22	Orion	Male	Chinese	Red	No	45
23	Phoenix	Male	British	Purple	Yes	34
24	Portia	Female	Russian	Red	No	35
25	Rhea	Female	British	Orange	No	33
26	Rocket	Male	British	Silver	Yes	26
27	Themis	Male	British	Navy blue	No	37
28	Triton	Male	Chinese	Silver	Yes	29
29	Venus	Female	American	Orange	No	45
30	Wolf	Male	American	Silver	Yes	40

The space food thief was \_\_\_\_\_.