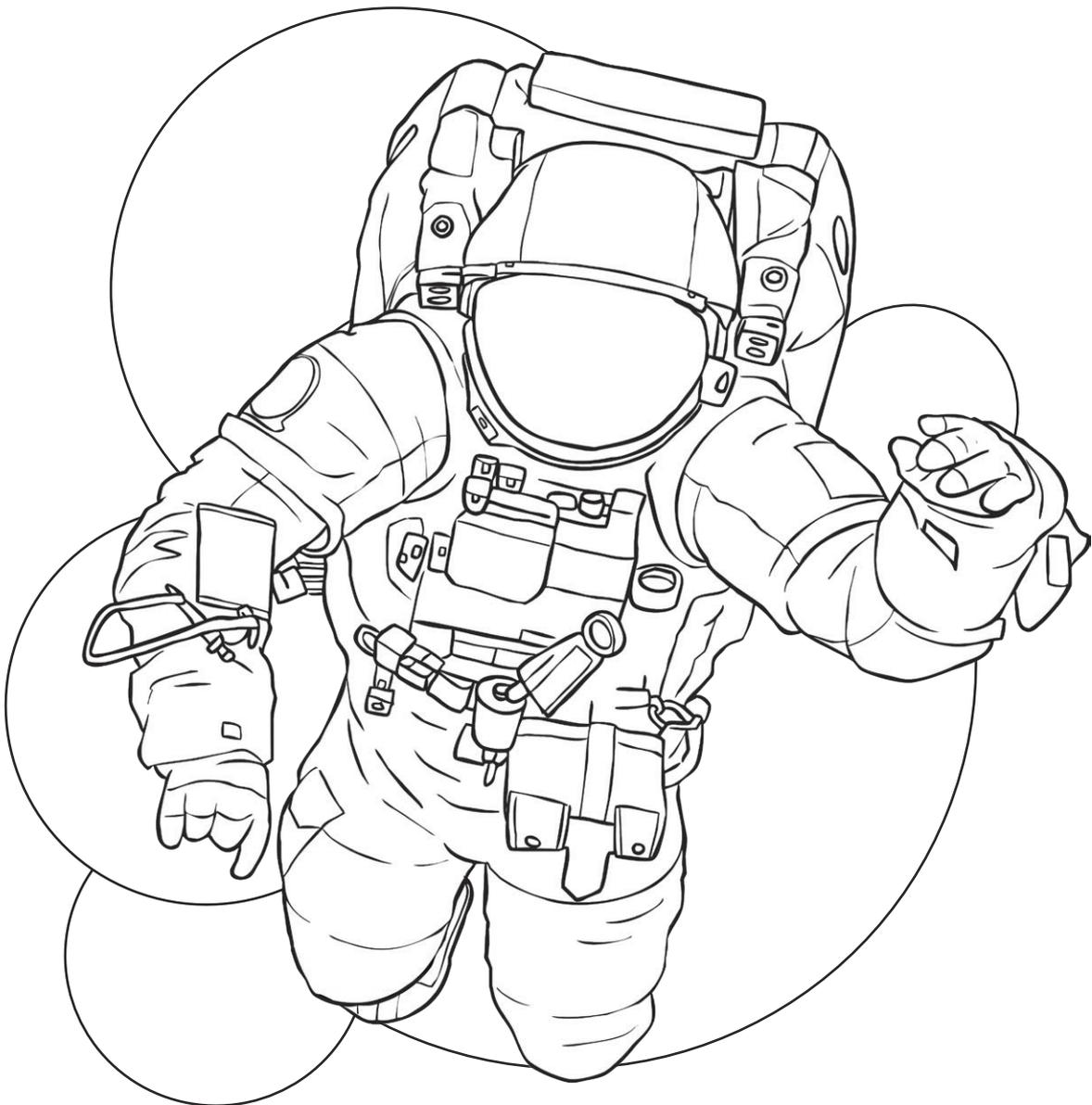


Year 5

Independent Maths & English Work Booklet Answers

1



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Football-Themed Code Breaker Answers

Solve the calculations and use the code breaker to spell out football-themed words.

A	B	C	D	E	F	G	H	I	J	K	L	M
6	15	21	5	13	24	18	7	12	1	25	19	9

N	O	P	Q	R	S	T	U	V	W	X	Y	Z
22	16	11	26	2	17	20	3	10	8	14	23	4

1.	Answer	Letter
$500 \div 100$	5	D
$1300 \div 100$	13	E
$2400 \div 100$	24	F
1.3×10	13	E
$220 \div 10$	22	N
$5000 \div 1000$	5	D
$13000 \div 1000$	13	E
0.02×100	2	R

2.	Answer	Letter
$9000 \div 1000$	9	M
0.06×100	6	A
$200 \div 10$	20	T
0.21×100	21	C
$70 \div 10$	7	H

3.	Answer	Letter
$200 \div 100$	2	R
$130 \div 10$	13	E
2.4×10	24	F
0.13×100	13	E
0.2×10	2	R
$1300 \div 100$	13	E
1.3×10	13	E

4.	Answer	Letter
$150 \div 10$	15	B
0.06×100	6	A
0.19×100	19	L
$190 \div 10$	19	L

5.	Answer	Letter
$25000 \div 1000$	25	K
$120 \div 10$	12	I
$2100 \div 100$	21	C
2.5×10	25	K

6.	Answer	Letter
0.018×1000	18	G
1.6×10	16	O
$600 \div 100$	6	A
0.019×1000	19	L
0.25×100	25	K
0.013×1000	13	E
$13000 \div 1000$	13	E
0.11×100	11	P
13×1	13	E
0.02×100	2	R

Maths Activity Mat Answers

Section 1

Order these numbers from smallest to largest:
576 094, 567 094, 576 904, 567 904

567 094

567 904

576 094

576 904

Section 2

Round these numbers to the nearest 100 000:

367 562 → **400 000**

453 378 → **500 000**

Section 3

Use the < and > signs to compare the numbers.

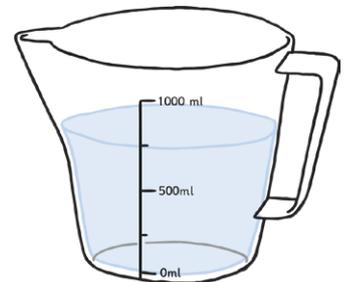
48 701	<	48 710
81 010	>	80 999

Section 4

Convert these measurements from litres to millilitres:

12.43l = **12 430ml**

6.8l = **6800ml**



Section 5

Draw lines to show which fractions, decimals and percentages match.

$\frac{7}{10}$	40%	0.01
$\frac{2}{5}$	1%	0.7
$\frac{1}{100}$	70%	0.4

Section 6

Complete these calculations:

$6396 \div 3 =$ **2132**

$1333 \times 2 =$ **2666**

Section 7

A shop assistant sold £845 worth of perfume. This was £258 more than yesterday. How much did she sell yesterday?

£587

Section 8

Write these Roman numerals as digits:

CCLXVI	266
CCCLXXIV	374



Football-Themed Decimal Calculations

Mosaic Answers

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

green =
0 to 2000

white =
2001 to 3000

black =
3001 to 5000

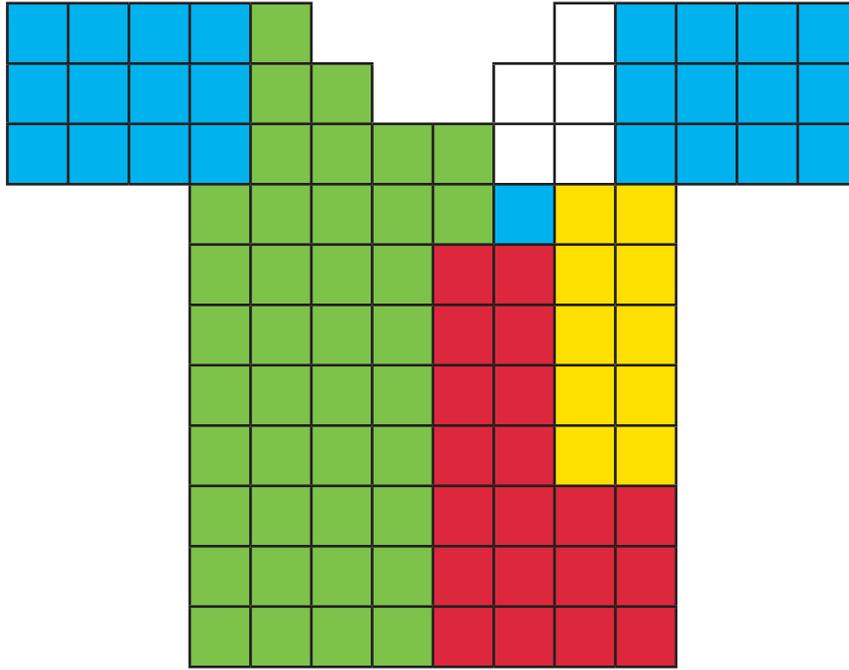
$1380 - 870$	$8100 - 6900$	$1290 - 85$	$4440 - 560$	$6780 - 3300$	$4440 - 2000$	$3380 - 1480$	$7100 - 6200$	$3290 - 1300$
$6660 - 5100$	$8550 - 7300$	$9200 - 6100$	$9780 - 6000$	$4380 - 500$	$3030 - 900$	$4990 - 2500$	$7660 - 5670$	$7550 - 5560$
$5980 - 4440$	$3890 - 1500$	$9230 - 6500$	$8800 - 6500$	$9000 - 6600$	$3360 - 1000$	$3680 - 900$	$4000 - 750$	$4980 - 2990$
$3230 - 750$	$5500 - 3400$	$7300 - 5000$	$9300 - 6800$	$5470 - 1100$	$9600 - 6700$	$3480 - 1200$	$8950 - 5000$	$6950 - 3300$
$4940 - 2300$	$3850 - 1000$	$4390 - 2200$	$6780 - 1800$	$9780 - 5000$	$8380 - 4000$	$7490 - 5000$	$7840 - 5300$	$8800 - 5400$
$9890 - 5500$	$7120 - 4900$	$9340 - 6500$	$5580 - 900$	$6000 - 1220$	$5780 - 1800$	$9360 - 6530$	$4870 - 2400$	$5380 - 2600$
$7440 - 2900$	$7000 - 2290$	$5290 - 2300$	$6000 - 3480$	$9780 - 5200$	$5480 - 2600$	$7000 - 4100$	$2990 - 540$	$9000 - 6490$
$2380 - 870$	$6760 - 2000$	$9830 - 7500$	$3780 - 1100$	$5580 - 3100$	$3000 - 220$	$5500 - 2100$	$4000 - 1220$	$3290 - 1900$
$5660 - 5100$	$9100 - 7900$	$3670 - 1300$	$4990 - 2100$	$8300 - 4900$	$4500 - 1220$	$5700 - 2400$	$7100 - 6700$	$7550 - 5860$
$5980 - 4540$	$9550 - 7800$	$2290 - 300$	$4890 - 2230$	$3430 - 1100$	$5600 - 2110$	$3380 - 1980$	$7660 - 6170$	$4980 - 3590$

Challenge: Write five different calculations involving subtracting a multiple of 10 which give an answer of 737.

Accept any suitable answer that includes a multiple of 10 and results in 737.

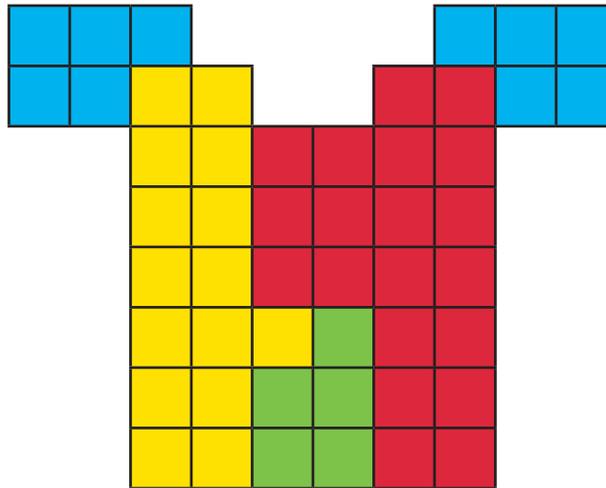
Football Shirt Stained-Glass Fractions **Answers**

1.



	Blue	Red	Green	Yellow	White
Fraction	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{1}{10}$	$\frac{1}{20}$
Number of parts	25	20	40	10	5

2.



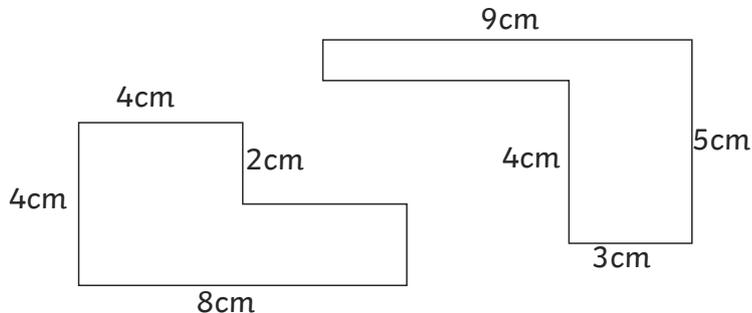
	Blue	Red	Green	Yellow
Fraction	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{1}{10}$	$\frac{3}{10}$
Number of parts	10	20	5	15

The Mystery of the Missing Tennis Kit **Answers**

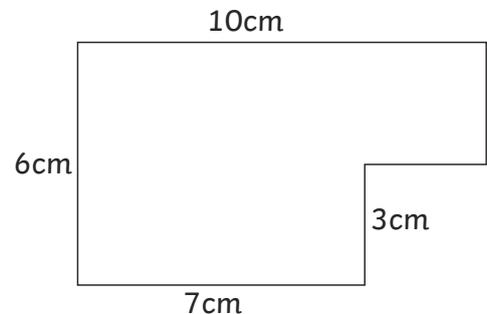
Clue 1: Perimeter of Rectilinear Shapes

Calculate the perimeter of each rectilinear shape.

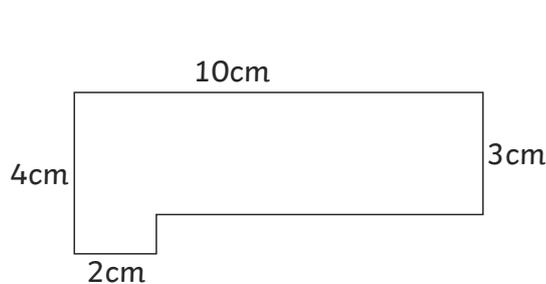
The solution that occurs the most will reveal a clue about who finds the tennis kits.



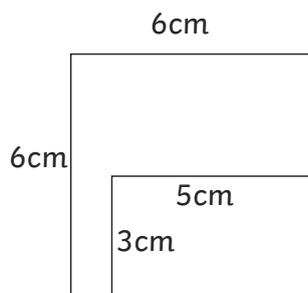
perimeter = 24cm



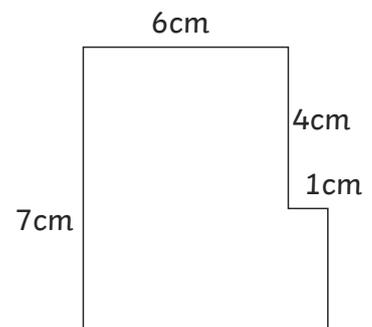
perimeter = 32cm



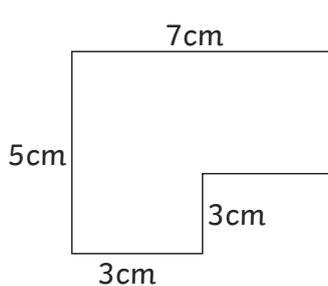
perimeter = 28cm



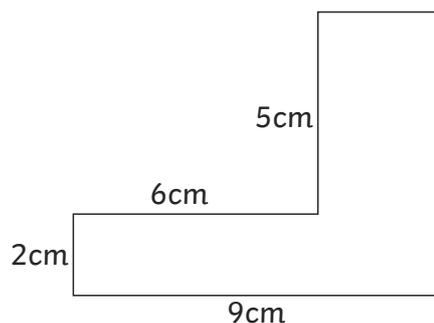
perimeter = 24cm



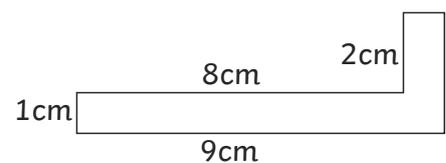
perimeter = 28cm



perimeter = 24cm



perimeter = 32cm



perimeter = 24cm

24cm	28cm	32cm
The player doesn't come from South America.	The player doesn't come from North America.	The player doesn't come from Africa.

Clue: The player who finds the kits doesn't come from South America.

Clue 2: Equivalent Measures

Colour in the correct equivalent measures and then find a path through the maze. You can only move horizontally or vertically through the maze.

The path will reveal a clue about the special skill of the player who finds the kits.

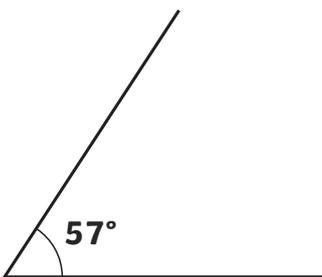
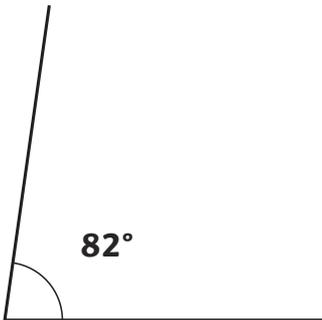
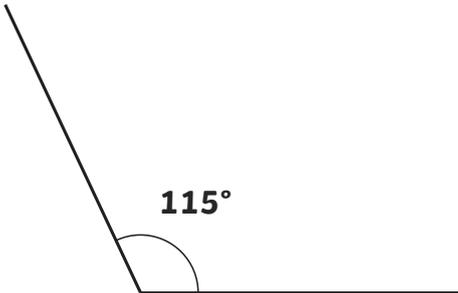
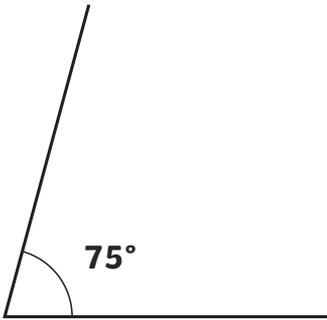
Start	1.09l = 1090ml	6.37km = 6370m	56g = 0.056kg	12mm = 0.12cm
4.7kg = 4700g	6mm = 0.6cm	334ml = 3.34l	509cm = 5.09m	578m = 0.578km
2.09km = 2090m	12.6m = 126cm	670mm = 0.67m	0.7kg = 70g	5.06l = 5060ml
2.34m = 234mm	45ml = 0.045l	930g = 0.93kg	1600m = 1.6km	45m = 4500cm
25kg = 25 000g	34cm = 340mm	6.32km = 632m	0.03m = 3cm	6ml = 0.06l
250ml = $\frac{1}{4}$l	39cm = 0.39mm	$\frac{3}{4}$m = 75cm	1.75kg = 175g	890m = 0.89km
The player's special skill is not a serve or volley.	The player's special skill is not a backhand or slice.	The player's special skill is not speed or a slice.	The player's special skill is not a volley or backhand.	The player's special skill is not speed or a serve.

Clue: The special skill of the player who finds the kits is not a serve or volley.

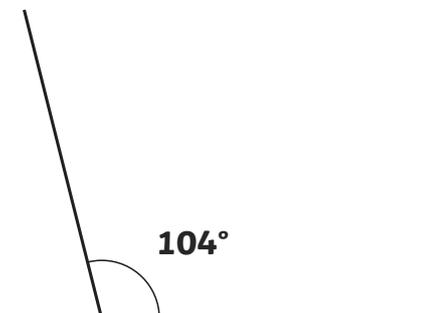
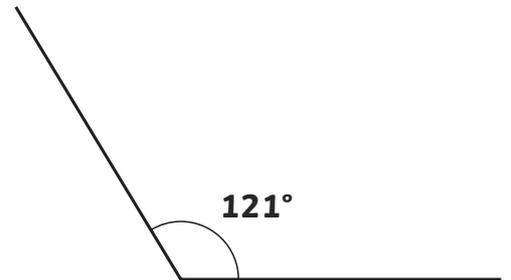
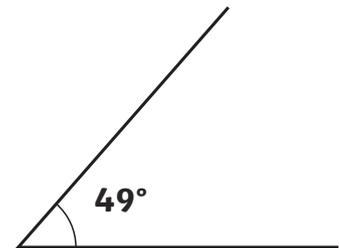
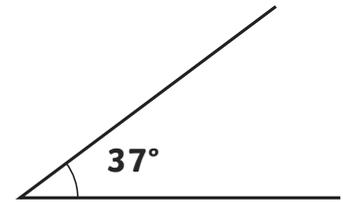
Clue 3: Measuring Angles

Measure each angle and match them to the correct answers.

The one remaining answer box will tell you a clue about the player who finds the kits.



121°
The player's kit is blue or black.
49°
The player's kit is green or black.
104°
The player's kit is green or blue.
57°
The player's kit is white or black.
75°
The player's kit is green or purple.
64°
The player's kit is blue or white.
82°
The player's kit is purple or white.
115°
The player's kit is black or purple.
37°
The player's kit is white or green.



Clue: The player who finds the kits has a blue or white kit.

Clue 4: Prime and Composite Numbers

Look at these maths statements and decide whether they are true or false. If it is true, put a tick. If it is false, put a cross.

Count the number of ticks and crosses.

If there are more ticks than crosses, the player who finds the kits is male.

If there are more crosses than ticks, the player who finds the kits is female.

	True ✓	False ✗
2 is a prime number.	✓	
23 is the only prime number between 20 and 30.		✗
15, 16 and 17 are all composite numbers.		✗
The next prime number after 50 is 53.	✓	
There are 3 prime numbers between 1 and 10.		✗
The prime numbers between 30 and 40 are 31 and 37.	✓	
67 is a composite number.		✗
The largest prime number less than 100 is 97.	✓	
2 and 3 are the only consecutive prime numbers.	✓	
Total		

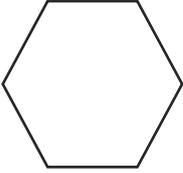
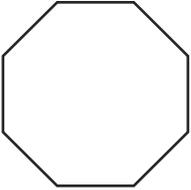
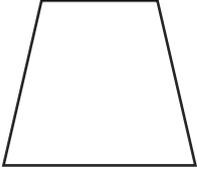
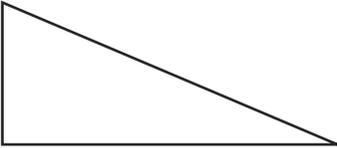
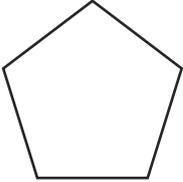
(Circle the correct answer.)

Clue: The player who finds the kits is male/female.

Clue 5: Shape

In each row, find the statement that is not correct.

The column with the most incorrect statements will tell you the age of the player who finds the kits.

	Every angle in this shape is a right angle.	This shape has six equal sides.	This shape has six lines of symmetry.
	In this shape, opposite sides are equal.	This shape has four right angles.	This is a regular shape.
	This is an octagon.	All the sides in this shape are equal.	This shape has four lines of symmetry.
	This is a trapezium.	This shape has one pair of parallel sides.	This is a regular shape.
	This shape has no lines of symmetry.	All the sides in this shape are equal.	This shape has one right angle.
	This shape has no lines of symmetry.	This shape has five equal sides.	Each angle in this shape is 108° .
	Opposite sides in this shape are parallel.	Opposite angles in this shape are equal.	This shape has two lines of symmetry.
	19-24	25-30	31-35

Clue: The player who finds the kits is aged 31-35.

The player who is responsible for finding the missing kits is Matt Martin.

Morning Star Answers

1. How fast did Cassini travel on its way through the solar system?

77,000 mph

2. How wide is the hurricane that Cassini photographed? Tick two.

1500 miles

the width of Earth

77000 miles

the width of the continent of Europe

3. ‘...its latest pictures have sent the space-science community into an intergalactic spin!’
a) Think about what types of people might make up the space-science community. Write down two of them:

Award one mark for any of the following (maximum 2 marks):

scientists, NASA workers, astronomers, astronauts, cosmologists, science teachers (or any related fields).

- b) According to the report, the pictures of the giant hurricane on Saturn have sent them into an ‘intergalactic spin’. What do you think it means by this?

Award one mark if the answer refers to the space-science community’s excitement:

Scientists were feeling excited, ecstatic, elated, delighted, happy, thrilled, amazed (or any related feeling/emotion).

Award an extra mark for recognition of word choice – ‘intergalactic’

because we’re talking about space; ‘spin’ like a hurricane spins.

Morning Star Answers

4. It took NASA years to build Cassini, then 13 years for it to reach Saturn. Millions of dollars have been spent on it. Imagine you are the Head Scientist at NASA in charge of the Cassini mission. You have been asked to say some words on TV about the photos of the giant hurricane and how you feel about them:

Award one mark for answers that refer to details about the Cassini mission. E.g.:

- **Reference to it being a great scientific step**
- **Details about Cassini's journey**
- **Details/descriptions about the photo**

Award a further mark for answers that refer to feelings/emotions about the mission. E.g.:

- **Relieved/happy that the mission was a success**
- **Relieved/happy that the photos were so good**
- **Amazed/excited by the photos/Cassini**
- **Excited about what Cassini could do next**
- **Thankful to all the people that have worked on it**

SPaG Mat Answers

a

Add an appropriate relative clause to this sentence, adding in the correct punctuation.

The magician _____ was performing at a birthday party.

Accept any relevant relative clause relating to the magician and begins with the relative pronoun who, whom or whose that is enclosed in commas, e.g. The magician, who was called The Great Lorenzo, was performing at a birthday party.



b

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

Shivering and cold, the children tried to block the (draft/**draught**) that was coming from under the door.

The businesswoman had made a sizable (prophet/**profit**) on her investment.

c

Circle both of the adverbs in this sentence.

Tomorrow, Gita will **proudly** represent her athletics club in the county competition.

e

Can you think of the silent letter word to match the definition?

A piece of land surrounded by water. **island**

A medieval soldier that wore armour. **knight**

d

Mr Whoops has accidentally jumbled two adjectives that he uses to describe his fantastic yet naughty new puppy. Can you help him to unjumble them?

MSCHEIUSOVI
MISCHIEVOUS

SLLMAVREUO
MARVELLOUS



f

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

The racehorses picked up speed to try to win the race as they neared the finish line.

As they neared the finish line, the racehorses picked up speed to try to win the race.

To try to win the race, the racehorses picked up speed as they neared the finish line.



Spot Mr Whoops' Mistakes **Answers**

Activity 3

shoulder

mischievous

neighbour

hindrance

conscience

embarrass

according

familiar

suggest

thorough

vehicle

interfere

attached

Fix the Sentence **Answers**

1. before every spelling test i trying to memorate each word but I often do'nt get full marks?
Before every spelling test, I try to memorise each word but I often don't get full marks.
2. Are healthy took shop which cells a range of nutricious snacks were open for busyness every morning brake.
Our healthy tuck shop, which sells a range of nutritious snacks, is/was open for business every morning break.
3. in his briefcase the spesial agent was kepted all of his confidenshul documents!
In his briefcase, the special agent kept/was keeping all of his confidential documents.

The Mystery of the Stolen Space Suit **Answers**

Clue 1: Space Sentences

Space Sentence	✓ or X
The astronauts, who come from all over the world have prepared for this mission for months.	X
"I have waited for this chance for years," said one of the astronauts – she was actually one of the older astronauts.	✓
Unfortunately, the space food (most of the astronauts dislike) has disappeared from the storage cupboard.	✓
Mission control, which is located in Paris, has delayed the take-off.	✓
Tom Peek – one of the British astronauts has eaten all of the space food.	X
Luckily, the Space Agency stored extra food in a safe place they kept this a secret.	X
Finally, the spare food (mainly baked beans) has been packed into the rocket.	✓
The rocket, with its extra food stores, has taken off safely.	✓

Answer to clue 1: There were **3** crosses and **5** ticks. There were more ticks so the culprit is **male**.

Clue 2: Space Suit Suffix Sort-Out!

pollen (pollinate)

solid (solidify)

vandal (vandalise)

elastic (elasticate)

test (testify)

fertile (fertilise)

alien (alienate)

intense (intensify)

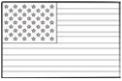
advert (advertise)

final (finalise)

Answer to clue 2: The suffix with the most root words is **ise**, so the culprit's uniform is **silver**.

Clue 3: Super Space Synonyms

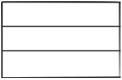
big
colossal
mountainous
gargantuan



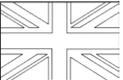
small
diminutive
minuscule
nanoscopic



slow
unhurried
steady



fast
turbo
speedy
swift
zippy



Answer to clue 3: The nationality of the astronauts who found the most synonyms was **British**.

Clue 4: Avoid the Active Asteroids!

Start

The space suit was taken by one of the astronauts.	The mission was delayed by the incident.	Rocket Red ate the space food.	The delayed mission devastated Orion Orbit.
The incident delayed the mission.	The culprit will be discovered by the Detective Chief Inspector.	One of the astronauts took the space suit.	Esther Earthshine lost the navy blue uniforms.
The Detective Chief Inspector will discover the culprit.	The space food was eaten by Rocket Red.	Carina Cosmo is the oldest astronaut on the mission.	Lyra Light spotted the space suit on a well-known auction site.
Apollo Atom is the youngest person to ever join astronaut training.	Orion Orbit was devastated by the delayed mission.	The navy blue uniforms were lost by Esther Earthshine.	Juno Jupiter has been on five missions in the past.
Norma Nebular packed the silver uniforms.	During the mission, the astronauts will receive regular messages from home.	The space suit was spotted on a well-known auction site by Lyra Light.	The rocket will orbit the planet for 40 days and nights.



Clue 5: Hyphens Go into Hyperdrive

Space Sentence	✓ or X
During my first mission, we saw thirty-one large asteroids one day.	✓
Taking-off is the most dangerous part of any space mission.	X
It can be difficult not to be bad-tempered when spending a lot of time in space with the same people.	✓
On my last mission, I worked with the all knowing Belinda Bright.	X
As we headed back home, I was hopeful that our reentry into the Earth's atmosphere would go smoothly.	X
I was sent on a spacewalk to re-cover some exposed electrical wires.	✓
Before any mission, it is important to re-search the planet you will be visiting.	X
On the space station, we re-cycle all of our water through a complicated system.	X

Answer to clue 5: There were **5 crosses** and **3 ticks**. There were more **crosses** so the culprit is **less than 30 years old**.

The culprit is Wolf White!