

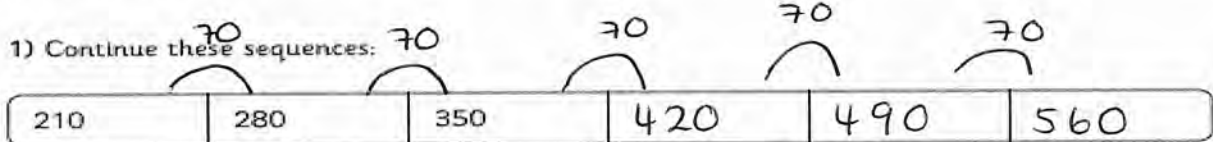
DAY 1 Maths

Mental Arithmetic- Try to answer these questions in approximately 10 minutes

$879 + 100 = 979$	$321 \times 2 = 642$
$2035 + 865 = 2900$	$54 \div 9 = 6$
$3 \times 5 \times 8 = 120$	$480 \div 6 = 80$
$3/5 + 1/5 = \frac{4}{5}$	$3/5 - 1/5 = \frac{2}{5}$
$60,000 - 600 = 59,400$	$200 \times 200 = 40,000$
$2.31 \times 6 = 13.86$	$4328 + 8976 = 13,304$

Reasoning Questions

1) Continue these sequences:



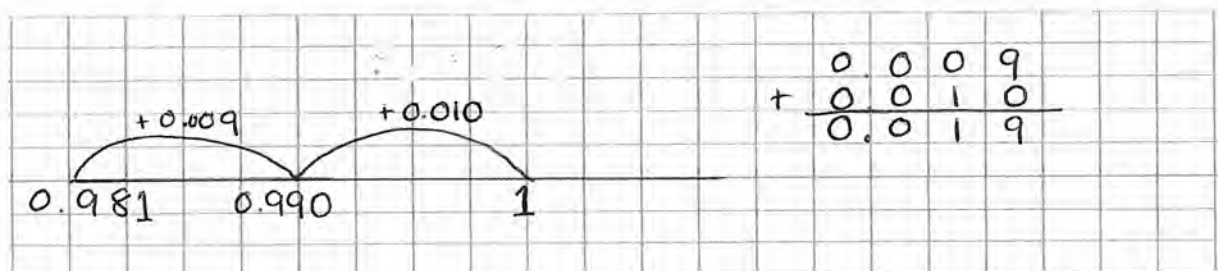
2) a) List all the prime numbers between 30 and 60:

31, 37, 41, 43, 47, 53, 59

b) Write all the prime factors of 20:

2, 5

3) What can be added to 0.981 to make 1?



Answer: 0.019

DAY 1 SPAG

Common and Proper Nouns

A **common noun** names a **general** person, place or thing.

Eg. I went to the city.
The man was kind.

A **proper noun** names a **specific** person, place or thing. Always make sure the first letter of a proper noun is a capital.

Eg. I went to London.
Mr. Brown was kind.
My new puppy, Benjy, is playful.

Instructions: Underline the common nouns and write **C** above them. Underline the proper nouns and put **P** above them.

1. The ^Chouse is on ^PWordsworth Crescent. (1 common, 1 proper)
2. ^PKaren played with her ^Csister. (1 common, 1 proper)
3. ^PFran went to ^Pfriendly's pet shop. (2 proper)
4. The ^Ccar stopped quickly. (1 common)
5. ^PChester Road is a busy ^Cstreet. (1 proper, 1 common)
6. ^PMichael and his ^Cfriend chased the ^Ckitten. (1 proper, 2 common)
7. Did you see ^PKevin at the ^Cparty? (1 common, 1 proper)
8. ^PLaura looked at the ^Cstars through her ^Ctelescope. (1 proper, 2 common)
9. There were no yellow ^Cmarkers in the ^Cbox. (2 common)

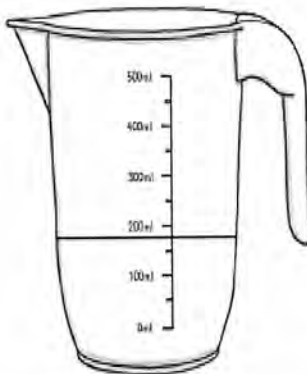
Day 2 Maths

Mental Arithmetic- Try to answer these questions in approximately 10 minutes

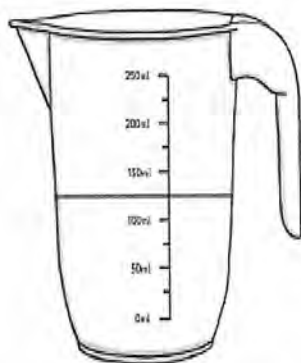
$6.1 + .04$ 6.5	23×4 92
$362 - 9$ 353	$1.5 + .05$ 1.55
8.12×100 812	2^2 4
$\frac{3}{5} \times \frac{1}{5}$ $\frac{4}{25}$	$\frac{3}{5} \div \frac{1}{5}$ $\frac{15}{5}$ <u>or</u> 3.
$121 \div 11$ 11	20 % of 2500 500
$6505 \div 5$ 1301	$13 - 4.01$ 8.99

Reasoning Questions:

- 4)
a) How much liquid is there in each jug?



Answer: 175ml

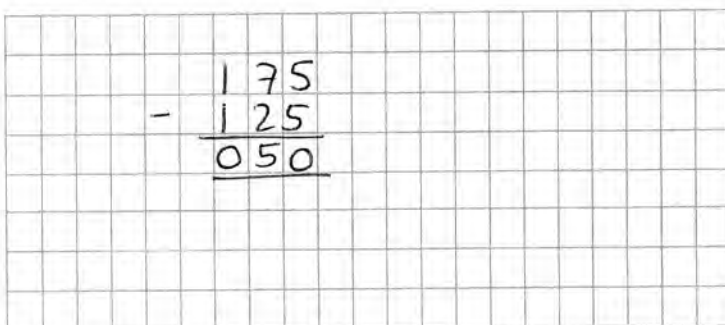


Answer: 125ml

- 5) Write the number 117 906 in words:

One hundred and seventeen thousand, nine hundred and six.

- b) Calculate how much more liquid is in one jug than the other:



Answer: 50ml.

DAY 2 SPaG

VERBS

A verb tells us what someone is doing or what is happening e.g. Emma is **digging** in the garden. Verbs bring nouns to life. Verbs are the key part of any sentence. A group of words **cannot** make a sentence unless it has at least one verb.

- * **Doing words** describe actions e.g. The boy **kicked** the ball.
- * **Being words** are also verbs e.g. The boy **is** muddy.
- * **Present tense** verbs are happening now e.g. Now I am **swimming** in the pool.
- * **Past tense** verbs happened in the past e.g. Yesterday I **swam** in the sea.
- * **Future tense** verbs tell us what will happen in the future e.g. Tomorrow I will **swim** in the river.
- * **Subject and verb agreement** means that the subject (the main person or thing) and the verb in each sentence must agree e.g. The children **is** singing should be: The children **are** singing.
- * **Auxillary** verbs are sometimes used to help a verb make sense e.g. Spike **was** washing the car.
- * **Active** verbs are when the subject of the sentence does the action e.g. The thief **stole** the jewels.
- * **Passive** verbs are when the subject of the sentence has the action done to it e.g. The jewels **were stolen** by the thief.

Underline and label the type of verb in the sentences below:

1. The warm sun shone in the blue sky. ^{Past/Active}
2. Bright butterflies floated through the tall trees. ^{Past/Active}
3. Ants scuttled round an old jam-pot before they ran away. ^{Past}
4. Busy bees flew among the sweet scented roses. ^{Past}
5. A bird perched on the low branch until it saw a black cat. ^{past}
6. The pansies made a yellow carpet as they turned towards the bright sun. ^{past} ^{past}
7. Wasps swarmed among the ripe strawberries. ^{Past}
8. The old gardener leant on the gate and smoked his pipe. ^{past} ^{past}

DAY 3 Maths

Mental Arithmetic:

$100 + 782$ 882	2×782 1564
$782 + 1735$ 2517	$56 \div 7$
$5 \times 3 \times 2$ 30	$160 \div 4$ 40
$2/3 + 1/3$ $\frac{3}{3}$ or 1	$2/3 - 1/3$ $\frac{1}{3}$
$720,000 - 700$ 719,300	200×400 80,000
2.31×6 13.86	$5002 + 9785$ 14,787

Reasoning Questions:

7) Which digit represents the number of thousands in the following number?

468 327	Answer: 8
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8) Explain why $0.64 \times 1000 = 640$:

9) Complete these equations using the following symbols:

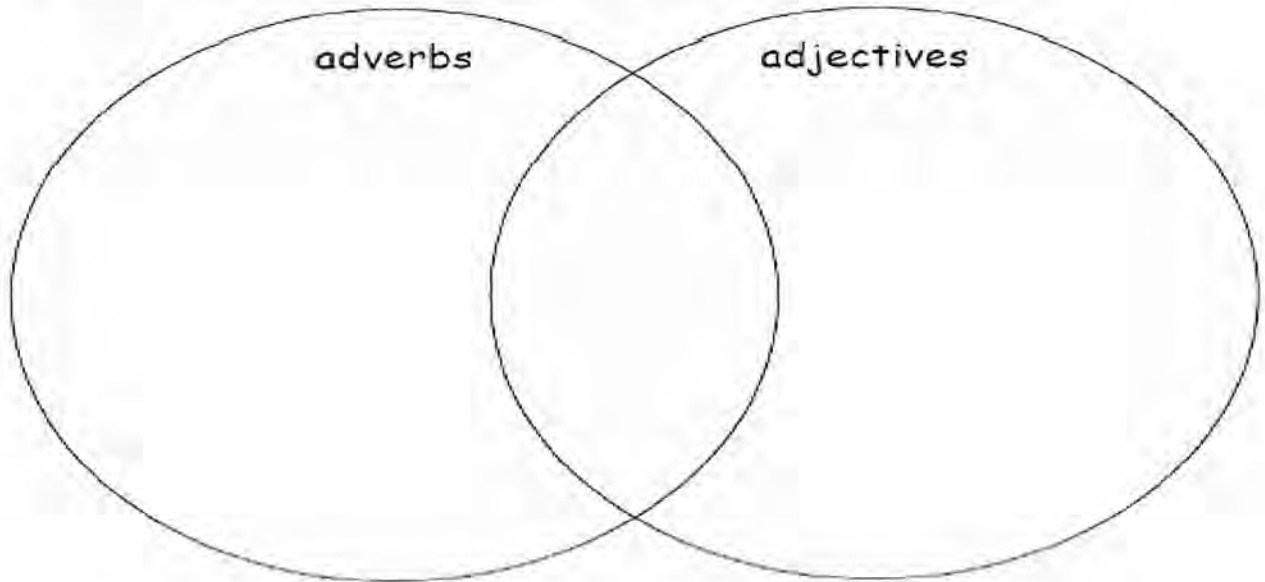
	< or > or =	
$\frac{3}{4}$	=	$\frac{9}{12}$
$\frac{3}{5}$	<	$\frac{13}{20}$
$\frac{1}{3}$	>	$\frac{2}{9}$

$$\frac{12}{20} < \frac{13}{20}$$
$$\frac{3}{9} > \frac{2}{9}$$

Day 3 SPaG

Adverbs and Adjectives

Instructions: Sort the words below into the Venn Diagram.



Remember! Adjectives describe things (nouns). Adverbs describe how something is being done (verbs).

Happy

Good

Slowly

Quickly

Happily

Badly

Better

Faster

Faintly

Fast

Light

New

Well

Sometimes

Dark

Day 4 Maths

Mental Arithmetic:

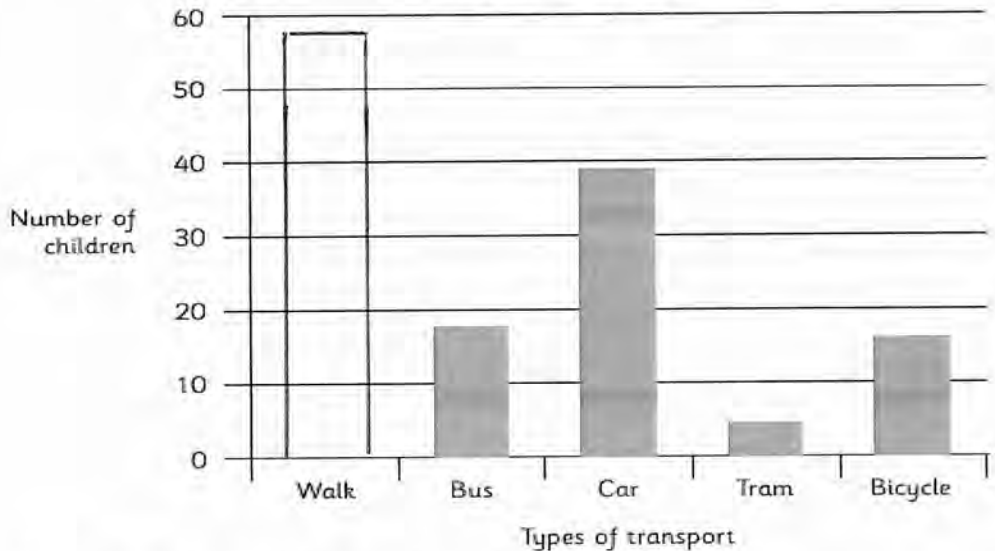
0.7 + 8 8.7	5 x 28 140
458 - 19 439	2.30 + .05 2.35
2.3 x 100 230	6 ² 36
$\frac{2}{3} \times \frac{1}{3}$ $\frac{2}{9}$	$\frac{2}{3} \div \frac{1}{3}$ $\frac{6}{3}$ <u>or</u> 2
72 ÷ 0.8 90	20 % of 9500 1900
3605 ÷ 5 721	34 - 2.01 31.99

Reasoning:

10) Some children researched the different ways a group of children travelled to school on one day. Here is a table and bar chart showing the results:

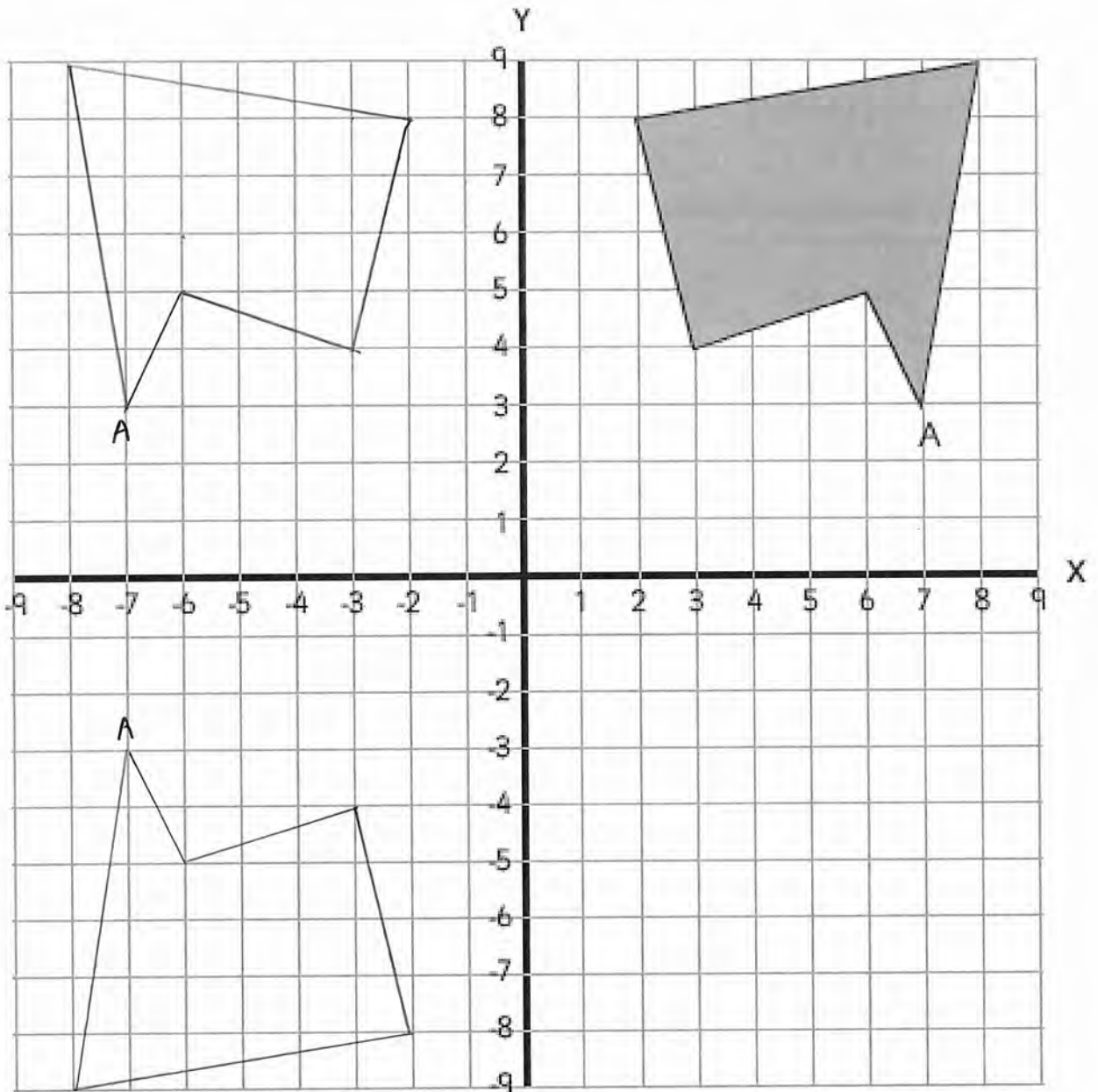
Transport	Tally	Total
Walk		57
Bus		18
Car		38
Tram		4
Bicycle		16

Number of Children



Complete the tally chart and bar graph to show the results.

13) Here is a shape drawn on a coordinate grid:



a) Reflect the shape across the Y axis and then reflect the new shape across the X axis, drawing the two new shapes.

b) Write the coordinates of point A on the new shapes:

Y: -7, 3	X: -7, -3
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Day 4 SPaG

1. Circle the object in this sentence.

I stroked the cat carefully.

2. Fill in the gaps in the sentence below using the passive form of the verb in the boxes.

After he his breakfast, the dog by his owner.

3. Add a comma to this sentence in the correct place.

Although she had left on time, she was late for school.

4. Read this sentence. Which punctuation mark is missing from the box? Circle one.

It's very hot today you'd better put on some sunscreen.

colon

semi colon

comma

question mark

DAY 5- SPaG

Year 6 English Grammar and Punctuation Test 1

5. Which sentence is punctuated correctly? **Tick one.**

I have two hobbies, painting and hockey.

I have two hobbies painting and hockey.

I have two hobbies: painting and hockey.

6. What does the word 'swiftly' mean in this sentence? **Tick one.**

The owl flew **swiftly** towards its prey.

gradually

quickly

slowly

casually

9. Read the passage below. **Tick** the pair of **pronouns** which best complete the sentence.

My brother and I love ice-skating and both have a pair of skates.
 are much better than the skates you hire from the ice-rink.

us / We

me / It

we / They

me / Them

10. **Circle** the **relative pronoun** in the sentence below.

It's too rainy for the picnic today, which is a shame.

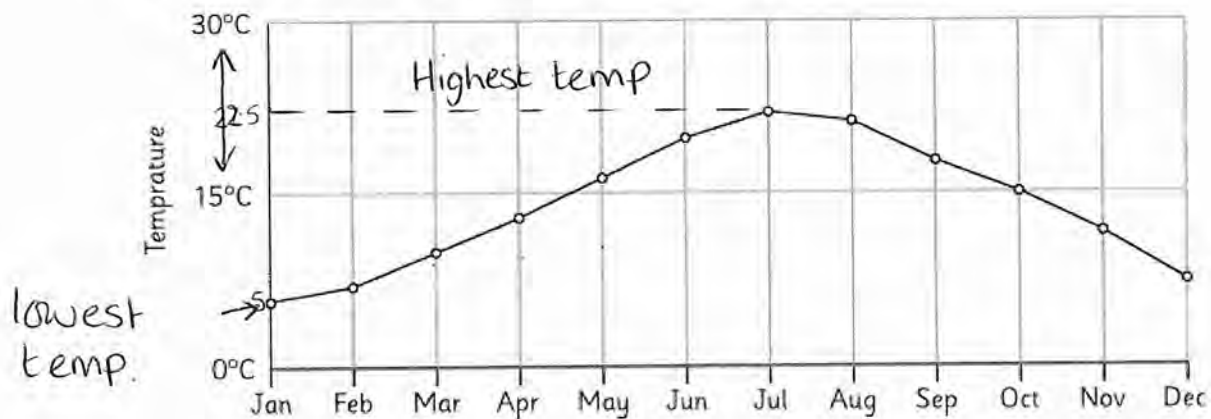
DAY 6 MATHS

Mental Arithmetic

$786 + 100$ 886	345×2 690
$2035 + 865$ 2900	$54 \div 9$ 6
$3 \times 5 \times 9$ 135	$490 \div 7$ 70
$\frac{3}{6} + \frac{1}{6}$ $\frac{4}{6}$	$\frac{3}{6} - \frac{1}{6}$ $\frac{2}{6}$
$70,000 - 700$ 69,300	300×300 90,000
3.21×6 19.26	$2134 + 8976$ 11110

Reasoning Questions:

8. Here is a graph showing the average maximum temperatures in London.



a) How many months have an average temperature above 10°C?

9

b) What is the difference between the highest and lowest average temperature?

17°C.

$$\begin{array}{r} 22 \\ - 5 \\ \hline 17 \end{array}$$

9. Each week a group of 8 children in a class take a special maths test. The teacher keeps a record of the average score each week.

One week the average is 7.25 out of 10. Only 2 children get full marks. Write down possible scores for the other 6 children.

2 children scored 10/10		$\begin{array}{r} 7.25 \\ \times 8 \\ \hline 58.00 \\ \downarrow \\ \text{total of all 8 scores must be } 58 \end{array}$
∴ $2 \times 10 = 20$		
$58 - 20 = 38$		Answers are correct if all 6 total 38.
① = 10/10	⑤ = 5/10	
② = 10/10	⑥ = 9/10	
③ = 8/10	⑦ = 9/10	
④ = 5/10	⑧ = 2/10	

10. In one month 110 346 fans attend the four football matches at a football team's home ground.

The attendances at the first three games were 28 963, 29 672, 24 082.

- a) How many attended the fourth game?

$\begin{array}{r} 28963 \\ 29672 \\ + 24082 \\ \hline 82717 \\ 212 \end{array}$	→	$\begin{array}{r} 110346 \\ - 82717 \\ \hline 27629 \end{array}$
		↓
		27629

- b) Rounding each attendance to the nearest 500, what is the new total attendance?

$\begin{array}{r} 29000 \\ 29500 \\ + 24000 \\ 27500 \\ \hline 100000 \\ 21 \end{array}$	$\boxed{100,000}$
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DAY 6 SPaG

1. Fill in the gaps in the sentence below using the past progressive form of the verb in the boxes.

While I was playing on the slide, my dad was pushing
my sister on the swing.

to play to push

2. Add brackets to this sentence in the correct place.

The children who were very excited couldn't wait to meet the Queen.

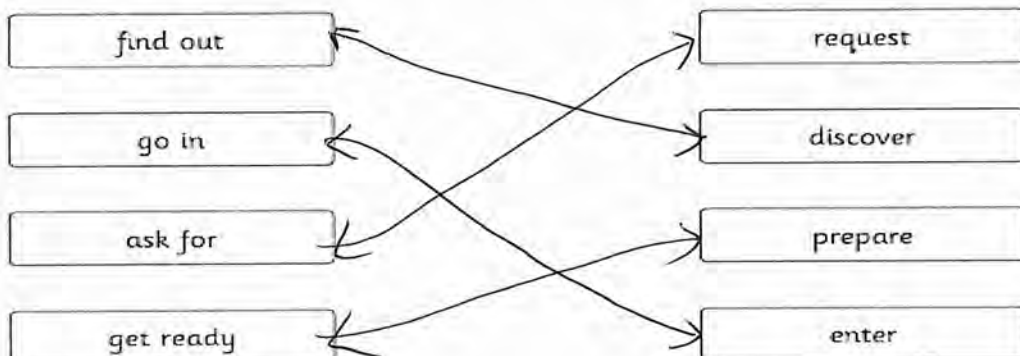
3. Circle the relative pronoun in this sentence.

This is the girl who helps out at the weekends.

5. Circle the ellipsis in this sentence.

Jim slowly turned his head as behind him the solid oak door swung silently open...

6. Draw lines to match the informal words to their formal synonym.



DAY 7 Maths

Mental Arithmetic:

$5.1 + .06$ 5.16	34×4 136
$362 - 9$ 353	$6.5 + .05$ 6.55
8.13×1000 8130	3^2 9
$\frac{3}{6} \times \frac{1}{6}$ $\frac{3}{36}$ OR $\frac{1}{12}$	$\frac{3}{6} \div \frac{1}{6}$ KFC $\frac{3}{6} \times \frac{6}{1} = \frac{18}{6}$ OR 3
$81 \div 0.9$ 90	20% of 3500 $10\% = 350 \therefore 20\% = \boxed{700}$
$7505 \div 5$ 1501	$15 - 4.01$ 10.99

Reasoning Questions:

11. A father cooks some pasta for himself and his daughter for a packed lunch. He cooks 75g for himself and 50g for his daughter.

When serving the pasta, he uses 10 equal spoonfuls.

How many spoonfuls will he serve his daughter?

$$\begin{array}{r} 75\text{g} \\ + 50\text{g} \\ \hline 125 \end{array} \rightarrow 125\text{g} \div 10 = 12.5\text{g}$$

$$\begin{array}{r} 12.5 \times 4 = 50\text{g} \\ 12.5 \times 6 = 75\text{g} \end{array}$$

4

12. Complete the following addition calculation.

$$\begin{array}{r} \boxed{3} \ 4 \ 6 \ \boxed{2} \\ + 3 \ \boxed{8} \ 7 \ 9 \\ \hline 7 \ 3 \ \boxed{4} \ 1 \\ \times \ \times \ \times \end{array}$$

13. Shade some more squares in this rectangle so that $\frac{7}{10}$ is shaded.

20 squares.
 $\frac{1}{10} = 2$ squares
 $\frac{7}{10} = 14$ squares.

DAY 7 SPaG

8. In a café, a waiter is very busy taking orders. He has lots of customers. Bearing this in mind, which sentence is correctly punctuated? **Tick one.**

The waiter took the customers order's.

The waiter took the customer's orders.

The waiter took the customers' orders.



9. **Circle all the determiners** in the sentence below.

The man's hair was very long, so my uncle cut it using a pair of the clippers he owns.



10. **Underline** the subordinate clause in this sentence.

I don't need a school dinner today because I have brought sandwiches.

1. **Fill in the gap** in the sentence below using the present perfect form of the verb in the box.

You have grown since I last saw you

↑
to grow



2. **Circle** the word or words that make this sentence a question.

You went to Ireland for your holiday, didn't you?

DAY 8 MATHS

Mental Arithmetic

$357 + 100$	457.	357×2	714
$2035 + 735$	2770	$64 \div 8$	8
$2 \times 7 \times 9$	126.	$144 \div 12$	12
$3/7 + 1/14$	$\frac{3 \times 2}{7 \times 2} = \frac{6}{14} + \frac{1}{14} = \frac{7}{14}$	$3/7 - 1/14$	$\frac{3 \times 2}{7 \times 2} = \frac{6}{14} - \frac{1}{14} = \frac{5}{14}$
$80,000 - 800$	79,200	400×400	160000
3.21×7	22.47	$2134 + 9785$	11919

Reasoning Questions:

14. Use 8 different digits to write an addition calculation with 2 numbers, so the total is 10.

0 may be used

0 1 2 3 4 5 6 7 8 9

$$\begin{array}{r} 7.61 \\ + 2.39 \\ \hline 10.00 \end{array}$$

→ Only used 8 digits ops!

$$\begin{array}{r} 8.057 \\ + 1.943 \\ \hline 10.000 \end{array}$$

CORRECT!

16. Write the decimal numbers in the marked boxes to continue the sequence.

17.56	17.59	17.62	17.65
17.68	17.71	17.74	17.77
17.80	17.83	17.86	17.89
17.92	17.95	17.98	18.01
18.05	18.08	18.11	18.14
18.17	18.20	18.23	18.26

$\begin{array}{r} +2 \\ +7.77 \\ \hline 92.77 \end{array}$

Day 8 SPaG

3. Which sentence uses inverted commas correctly? **Tick one.**

"Harry! Come quickly!" shouted Mum".

"Harry!" "Come quickly!" shouted Mum.

"Harry! Come quickly!" shouted Mum.

4. What type of word is underlined in this sentence? **Tick one.**

Alex said that we could go to his house to play.

noun

verb

pronoun

5. Which box shows where a comma should be used? **Tick one.**

Since moving to the city, Tanya had struggled to make new friends.

6. **Circle** the modal verbs in this sentence.

If I can leave early, I would like to meet Anna at the park, as she said she might be there.

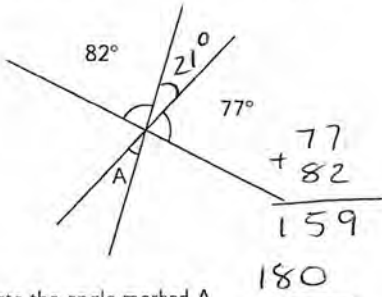
DAY 9 MATHS

Mental Arithmetic:

$5.7 + 0.03$ 5.73	37×5 185
$263 - 9$ 254	$11.7 + 0.05$ 11.75
5.24×1000 5240	4^2 16
$\frac{3}{7} \times \frac{1}{14}$ $\frac{3}{7} \times \frac{1}{14} = \frac{3}{98}$	$\frac{3}{7} \div \frac{1}{14}$ $\frac{3}{7} \times \frac{14}{1} = \frac{42}{7} = 6$
$25 \div 5.0$ 5	20 % of 4500 $10\% = 450$ $\therefore 20\% = 900$
$8705 \div 5$ 1741	$16 - 4.02$ 11.98

Reasoning Questions:

17. These 3 lines all intersect at the same point.



Calculate the angle marked A.

21°

$$\begin{array}{r} 180 \\ - 159 \\ \hline 021 \end{array}$$

18. A singer sells a single as a music download and CD, making a total profit of £8399.82.

She sells 12 354 CD singles, earning 35p for every single sold.

She earns 17p for each music download of the single.

How many music downloads did she sell?

$\begin{array}{r} 12354 \\ \times 35 \\ \hline 61770 \\ 370620 \\ \hline 432390 \\ \hline \end{array}$	<p>432390</p>
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1) Order the following from smallest to largest:

$$\frac{7 \times 5}{4 \times 5} \quad \frac{8 \times 4}{5 \times 4} \quad \frac{3 \times 10}{2 \times 10}$$

$$\downarrow \quad \downarrow \quad \downarrow$$

$$\frac{35}{20} \quad \frac{32}{20} \quad \frac{30}{20}$$

Smallest

$\frac{3}{2}$

$\frac{8}{5}$

$\frac{7}{4}$

Largest

20 is the LCD (lowest common denominator)

DAY 9 SPaG

7. **Complete** the sentence below using the correct conjunctions. Use each conjunction once only.

You can have butter jam marmalade on your toast, we don't have any honey.

and but or

8. Read this sentence. Which words in the table below show a synonym and an antonym for the word 'considerate'? **Tick one pair.**

Cinderella was nothing like her sisters - she was sweet and considerate.

synonym	antonym	Tick one pair
kind	naughty	
thoughtful	selfish	✓
generous	uncaring	

9. **Add the correct possessive pronoun** to the sentence below.

Gran smiled slowly and reached out hand.

10. **Tick one box** to show whether the word 'before' is used as a preposition or a subordinating conjunction.

Sentence	'before' used as a subordinating conjunction	'before' used as a preposition
We left the cinema before the film had ended.	✓	
Simon finished before Paul in the race.		✓
Train tickets are often cheaper before 9am.		✓

DAY 10 MATHS

Mental Arithmetic:

$0.6 + 3$ 3.6	6×81 486
$406 - 9$ 387	$1.8 + 7.066$ 8.866
$9.54 \times 10,000$ 95400	6^2 36
$2/6 \times 1/12$ $\frac{2}{6} \times \frac{1}{12}$ $\frac{2}{72}$ OR $\frac{1}{36}$	$2/6 \div 1/12$ $\frac{2}{6} \times \frac{12}{1} = \frac{24}{6}$ OR 4
$42 \div 0.6$ 70	20% of 6000 $10\% = 600$ ∴ $20\% = 1200$
$8905 \div 6$ $1484 \frac{1}{6}$	$8905 \div 16$ $556 \frac{9}{16}$

Reasoning Questions:

2) 35% of the 20 children in a class are boys. How many boys are there in the class?

$10\% \text{ of } 20 = 2$ $5\% \text{ of } 20 = 1$	$15\% = 3$ $30\% = 6$ $5\% = 1$ $35\% = 7$
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Answer:

3) The sequence 4, 7, 10, 13, 16,... can be expressed as $3n+1$, where n is the term.

a) Express the sequence 6, 10, 14, 18,... where n is the term:

$$\begin{array}{l} 1 \quad 2 \quad 3 \quad 4 \\ +4 \quad +4 \quad +4 \\ 4 \times 1 = 4 + 2 = 6 \\ 4 \times 2 = 8 + 2 = 10 \end{array}$$

Answer:

b) What is the 10th term?

$$4 \times 10 = 40 + 2 = 42$$

Answer:

7) Write the labels for the following shapes in the Carroll Diagram:



A



B



C



D

	Has 6 or more vertices	Has less than 6 vertices
Has at least one curved face		A
Has no curved faces	B D	C

DAY 10 SPaG:

2. Circle the **direct speech** in this sentence.

"Watch out!" cried the farmer.

3. Read the sentences below. Tick the **preposition** which best completes **both** sentences.

She starts [] her new school next week.

Jim and John are [] the cinema this afternoon.

in

at

around

5. Underline the **adverbial phrase** in this sentence.

The music teacher played the piano better than her student.

6. Read the words below. Tick **one suffix** which would correctly change each noun into a verb.

Noun	ate	ify	ise
apology			<input checked="" type="checkbox"/>
solid		<input checked="" type="checkbox"/>	
medicine	<input checked="" type="checkbox"/>		

Want more?

For practice maths questions (including answers) on specific aspects for maths, go to:

<http://sats.highamstjohns.com/PastPapers.html> For practice maths (including Mental Maths), reading and grammar (SPAG) paper questions (including answers), go to:

<http://primarytools.co.uk/pages/pastpapers.html>

<http://www.keystage2literacy.co.uk/index.html> - Great for Literacy resources / top tips for reading, writing and grammar/spelling.

<http://www.bbc.co.uk/bitesize/ks2/> – Super resource to support home learning.

<http://resources.woodlands-junior.kent.sch.uk/revision/> – Impressive Woodlands Junior resource to support home learning.

(One more terrible joke...)

**THE FIRST RULE OF
“THESAURUS CLUB” IS:**

**YOU DON'T TALK ABOUT,
MENTION, SPEAK OF, DISCUSS,
CHIN-WAG, NATTER OR CHAT
ABOUT THE THESAURUS CLUB.**