



W.C.22nd June 2020

<https://www.bbc.co.uk/bitesize/tags/zhgppg8/year-5-lessons/1>

Maths ANSWERS

Monday

Subtract decimals using the formal method and involving exchange

Fluent in 5

- $186 + 70 = 256$ (M)
- $5,667 + 3,334 = 9,001$ (W)
- $3 \times 7 = 21$ (M)
- $161 \div 7 = 23$ (W)

Mild

ones	tenths	hundredths	thousandths
	0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01	0.001
What number is the chart showing? 0.551			
What is one hundredth less? 0.541			
What is one thousandth less? 0.55			

ones	tenths	hundredths	thousandths
	0.1 0.1 0.1 0.1 0.1	0.01	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001
What number is the chart showing? 0.618			
What is one hundredth less? 0.608			
What is one thousandth less? 0.617			

ones	tenths	hundredths	thousandths
	0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01	0.001 0.001
What number is the chart showing? 0.622			
What is one hundredth less? 0.612			
What is one thousandth less? 0.621			

ones	tenths	hundredths	thousandths
	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.001 0.001 0.001 0.001 0.001
What number is the chart showing? 0.874			
Subtract 2 hundredths. 0.854			
Subtract 3 tenths. 0.574			

Subtraction of tenths

- $0.9 - 0.5 = 0.4$
- $0.4 - 0.2 = 0.2$
- $0.8 - 0.6 = 0.2$
- $0.2 - 0.1 = 0.1$
- $0.9 - 0.9 = 0$
- $0.7 - 0.6 = 0.1$
- $0.8 - 0.3 = 0.5$
- $0.6 - 0.5 = 0.1$
- $0.7 - 0.3 = 0.4$
- $0.7 - 0.2 = 0.5$

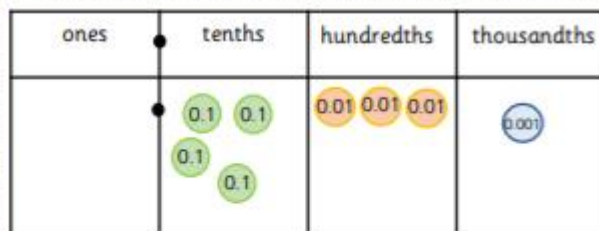
Subtraction of Hundredth

- $0.41 - 0.32 = 0.09$
- $0.7 - 0.43 = 0.27$
- $0.17 - 0.16 = 0.01$
- $0.61 - 0.41 = 0.2$
- $0.89 - 0.89 = 0$
- $0.99 - 0.93 = 0.06$
- $0.93 - 0.87 = 0.06$
- $0.85 - 0.25 = 0.6$
- $0.74 - 0.49 = 0.25$
- $0.77 - 0.54 = 0.23$

Subtraction of Ones and Hundredths

- $8.51 - 3.55 = 4.96$
- $9.29 - 3.07 = 6.22$
- $8.39 - 7.89 = 0.5$
- $8.25 - 7.56 = 0.69$
- $7.75 - 3.4 = 4.35$
- $1.97 - 1.24 = 0.73$
- $9.5 - 5.08 = 4.42$
- $8.24 - 4.5 = 3.74$
- $9.86 - 0.92 = 8.94$
- $7.87 - 1.3 = 6.57$

Medium

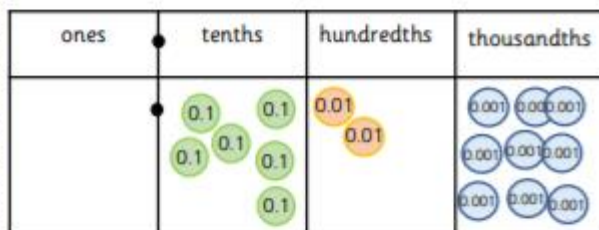


What number is the chart showing? **0.431**

What is three tenths less than the number? **0.131**

Subtract 0.03. **0.401**

Take away 1 thousandth. **0.43**

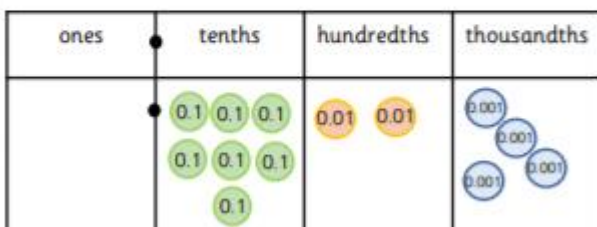


What number is the chart showing? **0.629**

What is nine thousandths less than the number?

Subtract 0.002. **0.627** **0.62**

Take away 2 thousandths. **0.627**



What number is the chart showing? **0.724**

What is two hundredths less than the number?

Subtract 0.02. **0.704** **0.704**

Take away 3 tenths. **0.424**

- 1 Use a place value chart and counters to help you complete the subtractions.

Tens	Ones	Tenths	Hundredths
10	1 1 1 1 1 1	0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01

a) $14.83 - 12.12 = 2.71$ c) $14.83 - 12.92 = 1.91$

b) $14.83 - 12.14 = 2.69$ d) $14.83 - 12.94 = 1.89$

- e) Which calculation was easier? Talk about it with a partner.
 f) What happens when you don't have enough counters in a column to take away?

You need to make an exchange.

Complete the column subtractions.

a)

		5	6	4	
	-	3	1	2	
		<u>2</u>	<u>5</u>	<u>2</u>	

c)

		7 8	0	9	
	-	3	8	1	
		<u>4</u>	<u>2</u>	<u>8</u>	

b)

		5	5 4		
	-	3	1	5	
		<u>2</u>	<u>4</u>	<u>9</u>	

d)

		1	2 0	2	
	-	1	1	3	8
		<u>0</u>	<u>0</u>	<u>6</u>	<u>4</u>

Here are some items for sale in a shop.



a) How much more does a scarf cost than a bag of marbles?

£ 2.64

b) Esther has £15.31

She buys a pair of headphones and a bag of marbles.

How much money does she have left?

£ 3.94

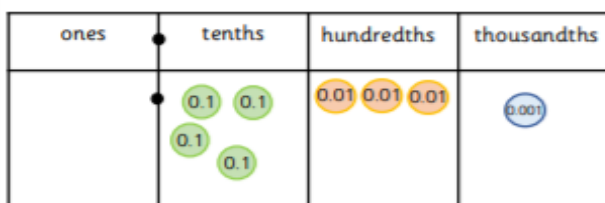
c) Tom has £7.01

He buys one item and has £5.92 left.

What did he buy?

Tom bought a keyring.

Spicy



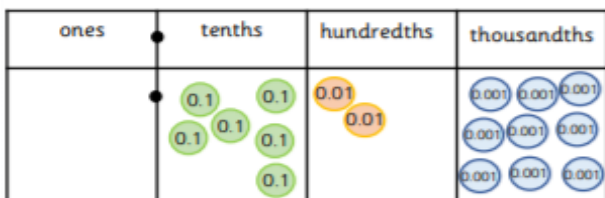
What number is the chart showing? 0.431

What is four hundredths less than the number?

Subtract 0.05. 0.381

0.391

Take away 3 thousandths. 0.428



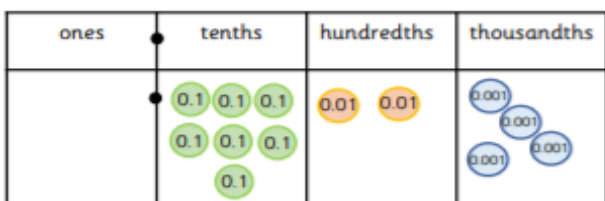
What number is the chart showing? 0.629

What is four hundredths less than the number?

Subtract 0.009. 0.62

0.589

Take away five hundredths. 0.579



What number is the chart showing? 0.724

What is nine thousandths less than the number?

Subtract 0.03. 0.694

0.715

Take away 5 hundredths. 0.674

Starter - Bronze Arithmetic

23rd June

$600 - 20$

580

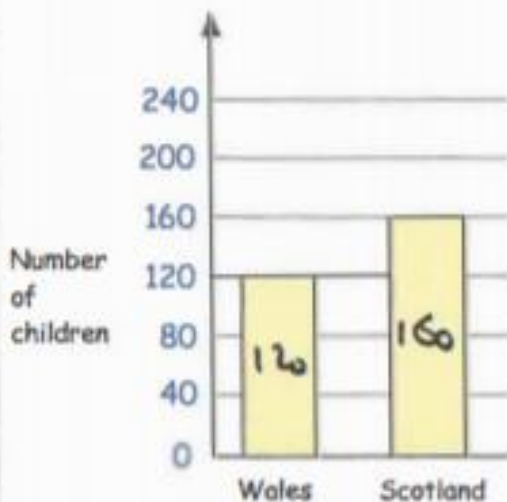
15×3

45

Add together the number of days in **March** and **May**

$31 + 31 = 62$

A teacher asked the children in a primary school if they had visited Wales or Scotland.



How many more children have been to Scotland than Wales?

40




Jack thinks there are 280 children at the primary school.

Why might Jack be wrong?

some may have visited both (or neither)

Mild

Use place value counters to help you work out the subtractions.

Ones	Tenths	Hundredths
		

a)

		5	•	3	6
-		1	•	2	
<hr/>					
		4	•	1	6
<hr/>					

c)

		5 ⁴	•	3	6
-		3	•	8	
<hr/>					
		1	•	5	6
<hr/>					

b)

		5 ⁴	•	3	6
-		3	•	5	
<hr/>					
		1	•	8	6
<hr/>					

d)

		5 ⁴	•	3	6
-		4	•	7	
<hr/>					
		0	•	6	6
<hr/>					

1) a) 1.815

b) 1.936

c) 1.52

d) 3.23

2) a) 2.568

b) 2.492

Alex is using counters to help her work out $4.7 - 1.35$



I can't do this as I don't have any hundredths counters.

Do you agree with Alex? No

Talk about it with a partner.

Medium

Complete the subtractions.

a)

		¹ / 2	¹ / 3	6
-		1	4	
		<u>0</u>	<u>9</u>	<u>6</u>

c)

		7	² / 3	¹ / 0
-		1	1	5
		<u>6</u>	<u>1</u>	<u>5</u>

b)

		⁵ / 6	¹ / 1	5
-		3	8	
		<u>2</u>	<u>3</u>	<u>5</u>

d)

		2	4	³ / 4	¹ / 0
-			3	1	2
		<u>2</u>	<u>1</u>	<u>2</u>	<u>8</u>

Use the column method to work out the subtractions.

a) $13.59 - 1.82$

		2		
		1	3	59
-			1	82
		<u>1</u>	<u>1</u>	<u>77</u>

c) $5.6 - 1.39$

		5	6	¹⁰
-			1	39
		<u>4</u>	<u>2</u>	<u>1</u>

b) $73.84 - 9.2$

		6		
		7	3	84
-			9	2
		<u>6</u>	<u>4</u>	<u>64</u>

d) $18.2 - 3.64$

		1	8	2	¹¹ ₀
-			3	64	
		<u>1</u>	<u>4</u>	<u>56</u>	

3) a) 1.34m

b) 1.591km

c) 0.485l

Spicy

A and B are incorrect.

A - The decimal points are not lined up correctly so the digits are not in the correct columns according to their value.

$$4.382 - 1.63 = 2.752$$

B - A placeholder (0) needed to be added in the thousandths column so an exchange could happen.

$$3.64 - 1.372 = 2.268$$

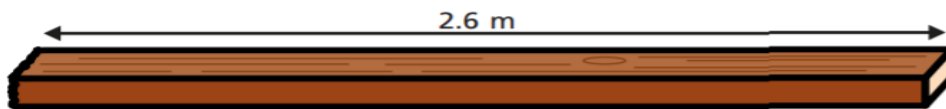
C is correct.

	4	3	8	
-	1	4	6	3
	2	9	1	7

	3	5	2	1
-	1	4	6	
	2	0	6	1

A plank of wood measures 2.6 m.

A carpenter cuts a piece of wood from the plank that is 0.52 m long.



a) What is the length of the remaining plank?

2.08 m

b) The carpenter cuts a second piece of wood from the plank.

She now has 0.3 m of the plank remaining.

What is the length of the second piece of wood that she cut?

1.78 m

The mass of a bag of marbles is 54.3 g.

These two marbles are removed from the bag.



What is the mass of the bag of marbles now?

32.56 g

Use the column method to work out the subtractions.

a) $14 - 2.7$

		1	4 ³	.	0	
-			2	.	7	
		<u>1</u>	<u>1</u>	.	<u>3</u>	

d) $26 - 3.91$

		2	6 ⁵	.	0 ⁹	0
-			3	.	9	1
		<u>2</u>	<u>2</u>	.	<u>0</u>	<u>9</u>

b) $8 - 3.65$

		8 ⁷	.	0 ⁹	0	
-			3	.	6	5
		<u>4</u>	.	<u>3</u>	<u>5</u>	

e) $25 - 3.842$

		2	5 ⁴	.	0 ⁹	0 ⁹ 0	
-			3	.	8	4	2
		<u>2</u>	<u>1</u>	.	<u>1</u>	<u>5</u>	<u>8</u>

c) $20 - 2.85$

		2 ¹	.	0 ⁹	0 ⁹ 0	
-			2	.	8	5
		<u>1</u>	<u>7</u>	.	<u>1</u>	<u>5</u>

f) $90 - 0.821$

		9 ⁸	.	0 ⁹	0 ⁹ 0		
-			0	.	8	2	1
		<u>8</u>	<u>9</u>	.	<u>1</u>	<u>7</u>	<u>9</u>

Wednesday

Multiply decimals by 10, 100, 1000

Mild

Complete the multiplications.

a)

H	T	O	Tths	Hths
		3	7	

 $3.7 \times 10 = 37$

b)

H	T	O	Tths	Hths
	1	4	5	

 $14.5 \times 10 = 145$

c)

H	T	O	Tths	Hths
		1	5	8

 $1.58 \times 10 = 15.8$

d)

H	T	O	Tths	Hths
	1	3	0	6

 $13.06 \times 10 = 130.6$

What do you notice when you multiply a number by 10?

Complete the multiplications.

a)

H	T	O	Tths	Hths
		4	1	

 $4.1 \times 100 = 410$

b)

H	T	O	Tths	Hths
		4	1	5

 $4.15 \times 100 = 415$

c)

H	T	O	Tths	Hths
	1	4	5	

 $14.5 \times 100 = 1,450$

d)

H	T	O	Tths	Hths
		4	0	5

 $4.05 \times 100 = 405$

What do you notice when you multiply a number by 100?

	x 10	x 100	x 1000
5.7	57	570	5700
23.02	230.2	2302	23 020
0.92	9.2	92	920
0.306	3.06	30.6	306
24.67	246.7	2467	24 670

Medium

Complete the multiplications.

a) $1.7 \times 10 =$

d) $13.4 \times 10 =$

b) $1.75 \times 10 =$

e) $10 \times 13.04 =$

c) $1.73 \times 10 =$

f) $130.4 \times 10 =$

Complete the calculations.

a) $7.2 \times 100 =$

d) $1.89 \times 100 =$

b) $3.4 \times 100 =$

e) $73.57 \times 100 =$

c) $19.5 \times 100 =$

f) $1.317 \times 100 =$

Complete the multiplications.

a) $4.7 \times 10 =$

c) $5.84 \times 10 =$

$4.7 \times 100 =$

$5.84 \times 100 =$

$4.7 \times 1,000 =$

$5.84 \times 1,000 =$

Amir has multiplied 3.8 by 1,000



The answer is 3.8000

a) What mistake has Amir made?

He has just added zeros.

b) Work out the correct answer.

$$3.8 \times 1,000 = 3,800$$

Spicy

Multiply the following numbers by 10, 100 and 1000 to complete the table.

	x 10	x 100	x 1000
4.02	40.2	402	4020
0.045	0.45	4.5	45
34.094	340.94	3409.4	34 094
209.817	2098.17	20 981.7	209 817
0.006	0.06	0.6	6

Complete the calculations.

a) $7.7 \times 100 = 770$

e) $8.032 \times 10 = 80.32$

b) $195 \times 10 = 1,950$

f) $100 \times 18.3 = 1,830$

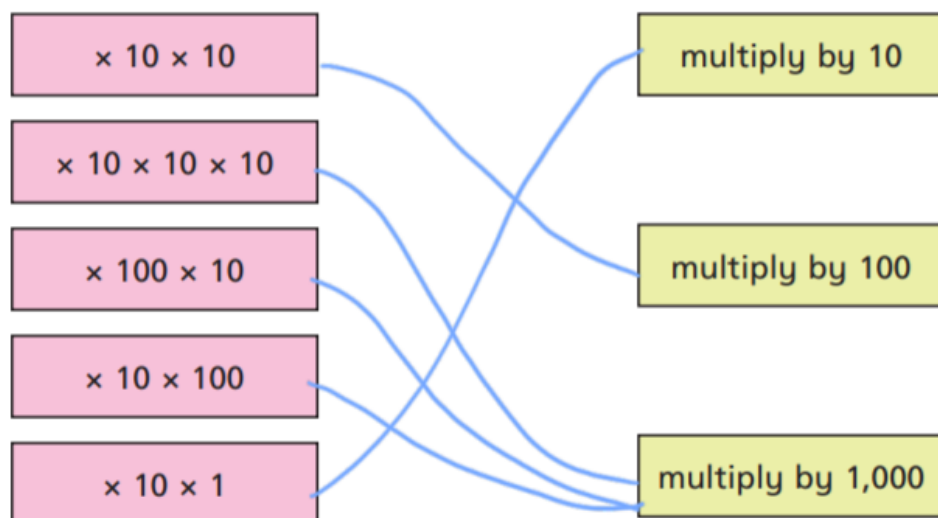
c) $11.5 \times 10 = 115$

g) $195.32 \times 10 = 1,953.2$

d) $1,000 \times 11.5 = 11,500$

h) $7.2 \times 1,000 = 7,200$

Match the multiplications to the descriptions.



Make sure you also have had several attempts on Times Table Rockstars today!



Thursday

Divide a one or two digit number by 10, 100 or 100 and identify place value

Fluent in 5

1. $377 + 40 = 417$ (M)
2. $7,643 + 1,339 = 8,982$ (W)
3. $3,327 + 4,375 = 7,702$ (W)
4. $\frac{1}{4}$ of 36 = 9 (M)

Mild

Complete the divisions.

a)

H	T	O	Tths	Hths
		5		

$$5 \div 10 = 0.5$$

b)

H	T	O	Tths	Hths
	1	5		

$$15 \div 10 = 1.5$$

c)

H	T	O	Tths	Hths
		3	8	

$$3.8 \div 10 = 0.38$$

d)

H	T	O	Tths	Hths
	1	3	8	

$$13.8 \div 10 = 1.38$$

What do you notice when you divide a number by 10?

3 Complete the divisions.

a)

H	T	O	Tths	Hths	Thths
	1	7			

$$17 \div 100 = 0.17$$

b)

H	T	O	Tths	Hths	Thths
		9	4		

$$9.4 \div 100 = 0.094$$

c)

H	T	O	Tths	Hths	Thths
2	7	6			

$$276 \div 100 = 2.76$$

d)

H	T	O	Tths	Hths	Thths
	3	2	5		

$$32.5 \div 100 = 0.325$$

What do you notice when you divide a number by 100?

Divide the following numbers by 10, 100 and 1000 to complete the table.

	$\div 10$	$\div 100$	$\div 1000$
43	4.3	0.43	0.043
219	21.9	2.19	0.219
703	70.3	7.03	0.703
64.8	6.48	0.648	0.0648
2560	256	25.6	2.56

Medium

Complete the calculations.

a) $7 \div 10 = 0.7$

d) $16 \div 10 = 1.6$

b) $7.8 \div 10 = 0.78$

e) $16.4 \div 10 = 1.64$

c) $7.86 \div 10 = 0.786$

f) $16.48 \div 10 = 1.648$

Complete the divisions.

a) $7 \div 100 = 0.07$

b) $109 \div 100 = 1.09$

$7.2 \div 100 = 0.072$

$10.9 \div 100 = 0.109$

$7.25 \div 100 = 0.0725$

$10.95 \div 100 = 0.1095$

Complete the calculations.

a) $147 \div 10 = 14.7$

c) $3,200 \div 10 = 320$

$147 \div 100 = 1.47$

$3,200 \div 100 = 32$

$147 \div 1,000 = 0.147$

$3,200 \div 1,000 = 3.2$

Use a place value chart to work out $136 \div 1,000$

H	T	O	Tths	Hths	Thths
1	3	6			

Complete the calculation.

$$136 \div 1,000 = 0.136$$

Spicy

Divide the following numbers by 10, 100 and 1000 to complete the table.

	$\div 100$	$\div 1000$	$\div 10$
4.08	0.0408	0.00408	0.408
215.9	2.159	0.2159	21.59
9.99	0.0999	0.00999	0.999
450.04	4.5004	0.45004	45.004

$$\text{b) } 21 \div 10 = 2.1$$

$$\text{d) } 5,006 \div 10 = 500.6$$

$$21 \div 100 = 0.21$$

$$5,006 \div 100 = 50.06$$

$$21 \div 1,000 = 0.021$$

$$5,006 \div 1,000 = 5.006$$

Complete the divisions.

$$\text{a) } 83 \div 100 = 0.83$$

$$\text{e) } 1,799 \div 100 = 17.99$$

$$\text{b) } 9.5 \div 10 = 0.95$$

$$\text{f) } 1,180 \div 100 = 11.8$$

$$\text{c) } 39 \div 10 = 3.9$$

$$\text{g) } 178 \div 10 = 17.8$$

$$\text{d) } 68 \div 1,000 = 0.068$$

$$\text{h) } 3.18 \div 10 = 0.318$$

Use your knowledge of measure to work out the answers.

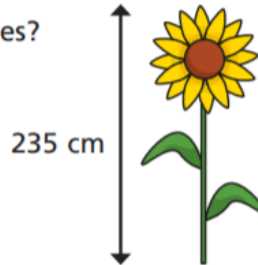
a) What is the mass of the box in kilograms?

$$\boxed{2,340} \div \boxed{1,000} = \boxed{2.34}$$



b) What is the height of the sunflower in metres?

$$\boxed{235} \div \boxed{100} = \boxed{2.35}$$



c) What is the amount of juice in litres?

$$\boxed{380} \div \boxed{1,000} = \boxed{0.38}$$



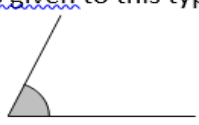
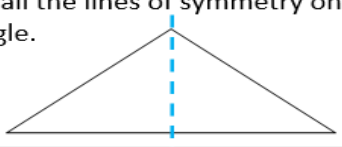
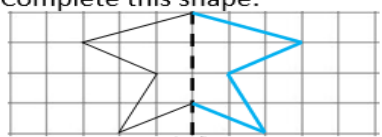
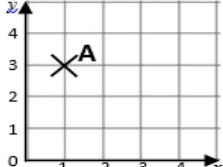
Friday

Make sure you check BBC Bitesize for the Challenge ANSWERS


Key Skills

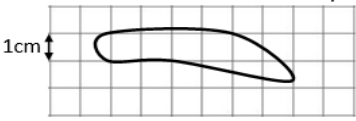
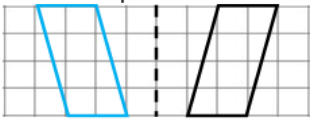
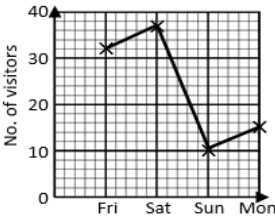
Mild

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions													
1. What is the missing number? 14 21 28 <input type="text"/> 42	4:1 35	11. $9 \times 12 =$													
2. What is the missing number? 36 <input type="text"/> 48 54 60	4:1 42	12. Complete the sum that is equal to $36 \times 7:$ $3 \times$ <input type="text"/> $\times 7$													
3. Round this number to the nearest 10: 5,731	4:2 5,730	13. $68 \times 4 =$													
4. Round this number to the nearest 100: 3,275	4:2 3,300	14. One wooden block is 4cm tall. If 14 blocks are piled up, how tall are they?													
5. What is the next number in this sequence: 4, 2, 0, -2, <input type="text"/>	4:3 -4	15. $\frac{?}{5} = \frac{4}{20}$ <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>													
6. Write < or > to make this correct: 3,948 <input type="text"/> 2,817	4:4 >	16. When I divide a number by 100, what fraction do I have?													
7. What number does this Roman Numeral represent? XC	4:5 90	17. $\frac{14}{13} - \frac{5}{13}$													
8. $2,725 - 834 =$	4:6 1,891	18. Write $\frac{7}{10}$ as a decimal number.													
9. Estimate the answer to: $6,504 + 4,478$	4:7 11,000	19. What is the value of the 9 in: 3.91													
10. Sarah had £65. She bought a £28 dress and a £17 bag. How much left?	4:8 £20	20. A log is 6 metres long. It is cut into quarters. How long is each piece?													
Total (A)		Total (B)													

C: Measure and Geometry	
21. On the back of a film box it says length of the film is 97 minutes. How long is this in hours and minutes?	4:19 1 hour 37 minutes
22. What name is given to this type of angle? 	4:24 Acute
23. Draw all the lines of symmetry on this triangle. 	4:25 1 line drawn
24. Complete this shape: 	4:26 Shape drawn
25. What are the co-ordinates of the point labelled A? 	4:27 (1, 3)

Medium and Spicy

A: Place Value, Add and Subtract		B: Multiply, Divide and Fractions
1. What is the value of the 2 in this number? 2,934,765	5:1 2,000,000 (million)	11. Write all of the factors of 18.
2. Put these in order, smallest first: 212,285 32,956 110,000 85,253	5:1 32..., 85..., 110..., 212...	12. Which of the following are prime numbers ? 3 4 7 15 18
3. Round 163,824 to the nearest ten thousand .	5:2 160,000	13. 1,016 x 8
4. What is the missing number? 117,250 107,250 <input type="text"/> 87,250	5:2 97,250	14. 9.2 ÷ 100
5. Put these in order, smallest first: -3, 1, -5, 0, 4, -2	5:3 -5, -3, -2, 0, 1, 4	15. What is 3^3 ?
6. What year is represented by these Roman Numerals? MCMXCV	5:4 1995	16. Put these in order, smallest first: $\frac{3}{5}$ $\frac{7}{10}$ $\frac{8}{15}$
7. 112,498 - 48,745 =	5:5 63,753	17. Find an equivalent fraction of $\frac{2}{4}$. 
8. 34,857 + 79,384 =	5:5 114,241	18. Write the answer as a mixed number . $\frac{7}{8} + \frac{11}{8}$
9. Complete this sum without written working. 15,200 - 2,050 =	5:6 13,150	19. $\frac{2}{9} \times 27 =$
10. The temp. was -4°C. It rose by 9°C, then dropped by 4°C. What is it now?	5:7 1°C	20. Write 0.8 as a fraction.
Total (A)		Total (B)

C: Measure, Geometry and Statistics	
21. If 1 kilogram is approximately 2.2 pounds, about how many kilograms are equal to 8.8 pounds?	5:20 4
22. Estimate the area of this shape: 	5:21 6 or 7
23. Reflect the shape in the mirror line. 	5:28 Shape drawn
24. Customers over a long weekend: How many customers were there on the busiest day? 	5:29 37
25. How many customers were there in total over the long weekend?	5:29 94
Total (C)	