Monday- 5 a day

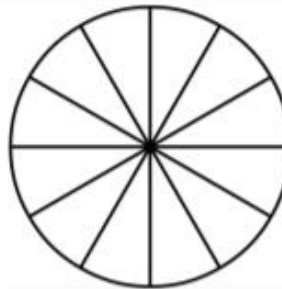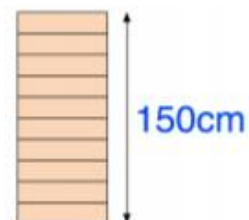| $5,050 - 505$	700×10
Find the size of angle w	
Shade $\frac{3}{4}$ of the circle	
A stack of 10 identical boxes is 150cm tall Jake removes 2 boxes. How tall is the stack now?	150cm

$30 \times 50 \times 20$	$466 - 188$

What time is shown on the clock?	

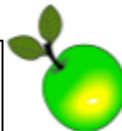| Circle the type of angle marked between the hour and minute hand. Acute Right Obtuse Reflex	

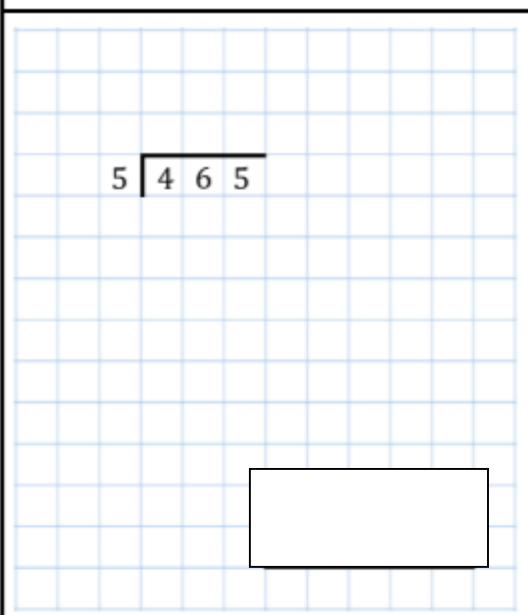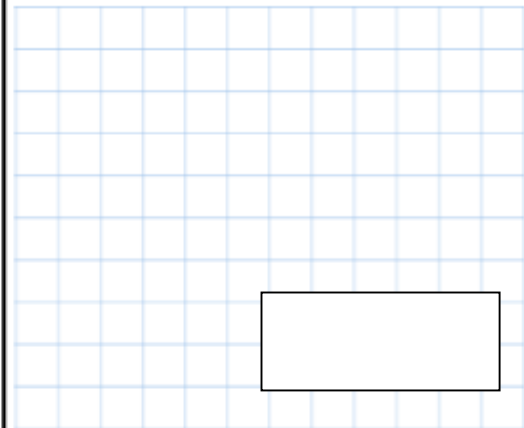| At the start of the week, a greengrocer had 2,568 apples. During the week, - 4,009 more apples were delivered - 5,771 apples were sold	How many apples were left at the end of the week?

Wednesday- 5 a day

5) 4 6 5	$12 \times \boxed{} = 10 \times 24$
Find the missing numbers	$\begin{array}{ccc} \boxed{} & 6 & 4 \\ + \; 2 & \boxed{} & 6 \\ \hline 7 & 5 & \boxed{} \\ \hline \end{array}$
Shade in $\frac{2}{5}$ of the grid. The fraction I would shade would be:	(grid)
The numbers in this sequence increase by the **same amount** each time. Write in the two missing numbers	$\boxed{}$ 46 61 $\boxed{}$ 91

$2{,}500 + 2{,}500 + 2{,}500$

$4\,|\,8\;5\;2$

Write down the number which is
Five less than three thousand and two.

This table shows the temperature at 7am
on three days in December

1st December	8th December	15th December
-1°C	5°C	-3°C

What is the difference between the
temperatures on 1st December and 8th
December?

On 22nd December the temperature was
6°C lower than on 15th December.

What was the temperature on 22nd
December?

$5 - 9$

$$\begin{array}{r} 1\ 8\ 0\ 7 \\ -\ \ \ 9\ 4\ 8 \\ \hline \end{array}$$

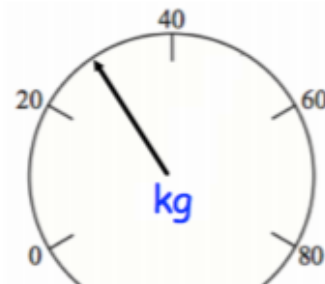Gary buys four packets of crisps and pays with a £5 note

Here is his change

Work out the price of 1 packet of crisps

Hannah is 40kg **heavier** than Naomi. The scales show Naomi's weight.

How heavy is Hannah?

Louisa is reading a book.

She has reached **chapter** XXIV

Write XXIV in **figures**

<u>Task 2</u>

After working through the PowerPoint, now try and independently complete these questions.

1 Complete the calculations.

a)

Th	H	T	O
1,000 1,000	100	10 10, 10 10, 10 10	1 1, 1 1
+			
1,000 1,000, 1,000	100 100	10	1 1, 1

		2	1	6	4
+		3	2	1	3

Answers

a)

b)

b)

Th	H	T	O
1,000 1,000, 1,000 1,000	100 100	10 10, 10 10, 10 10, 10	1 1, 1 1, 1
+			
1,000 1,000	100 100, 100 100, 100 100	10 10, 10 10	1 1, 1

		4	2	7	5
+		2	6	4	3

2 Complete the column additions.

	7	4	3	5
+	2	4	5	6

	7	4	3	5
+	2	4	6	6

	7	4	3	5
+	2	5	6	6

	7	4	3	5
+	3	5	6	6

What do you notice about each addition?

What stays the same? What changes?

Answers

a)

b)

c)

d)

What do you notice?

_____
_____
_____
_____
_____

3)

Use the column method to work out the additions.

a) £36,000 + £19,420

c) 843 cm + 15,611 cm

b) 40,720 g + 6,872 g

d) £17,320 + £6,009 + £34,871

Answers

a)   b)   c)   d)

4)

The table shows the number of home and away fans attending three football matches.

Match	Home fans	Away fans
1	53,640	12,930
2	42,630	18,340
3	35,480	32,490

Which match had the greatest total attendance?

5)

Complete the additions.

a)

	4		1	
+ 2		8		4
8	9	9	2	6

b)

	4		9	
+ 2		8		4
8	9	9	2	6

Answers

a)

b)

6) Five children have been playing a times tables game. Here are their scores:

Lottie	Sam	Izzy	Abdul	Ffion
32 357	30 541	34 057	31 647	33 587

a) Which two children have a combined score of exactly 62 188?

_____

b) Which two children have a combined score of exactly 65 944?

_____

Answers

a)
b)

1)

Ravi has been practising his column method but he has made some mistakes. For each sum, identify the mistakes and explain his errors. Then, carry out the sum yourself in the blank box to find the correct total.

a)

	3	2	5	6	1
+		7	6	3	5
	3	9	1	9	6

a)

_____
_____
_____

b)

	3	4	5	8	
+	5	2	6	7	1
	5	7	2	5	1

b)

_____
_____
_____

c)

		5	2	3	1
+		2	7	8	5
	7	1	0	1	6
		1			

c)

_____
_____
_____

2)

Amy is playing a maths game. She scores 1200 in the first round, 4800 in the next and 11 000 in the final round. Would you use column addition to find her total score? Use the numbers in the question to explain your answer.

_____
_____
_____
_____
_____

3)

Calculate the answer to:

thirty-eight thousand add two thousand, one hundred and twenty-six

Answer

4)

I have 6 ten thousand place value counters, 3 thousands, 1 hundred and 3 tens and 5 ones. I add this to the number 60,921. What is my new number?

Answer

5)

Each letter represents a different number between 0 and 9. Can you work out what the letters represent to make the addition calculation work? How many different solutions can you find?

	C	L	U	E
+	M	I	L	E
	P	O	N	Y

L

Answer

<u>Challenge</u>

Exasperating 80 grand

1. Use all of the digits 0 to 9 once only to create a pair of five-digit numbers. Use column addition to find the total.

2. Create a pair of five-digit numbers with a total as close to 80,000 as you can! Can you get an answer within 100 of 80,000?

3. Write your own target total of a multiple of 10,000. Use what you have learned to come up with a pair of numbers with a total as close to that number as possible.

   Is it easier to get answers close to some multiples of 10,000 than others?

1.   7 3 4 5 8
     + 1 2 0 9 6
     _____1_1_____
       8 5 5 5 4

ANSWERS

Monday- 5 a day

$5,050 - 505$	700×10
$4\overset{4}{5}\overset{4}{0}\overset{4}{5}\overset{1}{0}$ $5\ 0\ S\ -$ $\overline{4\ 5\ 4\ 5}$ 4545	 7000
Find the size of angle w $\begin{array}{r} 51 \\ +\ 74 \\ \hline 125 \end{array}$ $\begin{array}{r} \overset{7}{1}\overset{}{8}\overset{1}{0} \\ -\ 1\ 2\ 5 \\ \hline 5\ 5 \end{array}$ 55°	51° w 74°
Shade $\frac{3}{4}$ of the circle	
A stack of 10 identical boxes is 150cm tall Jake removes 2 boxes. How tall is the stack now? each box 15 cm 2 x 15 = 30 cm	150 - 30 = 120 cm 150cm

Tuesday- 5 a day

$30 \times 50 \times 20$	$466 - 188$
$30 \times 50 = 1500$ 1500×20 30,000	$\overset{3}{4}\overset{\cancel{3}}{\cancel{6}}\overset{1}{6}$ $- \ 1 \ 8 \ 8$ $\overline{\ 2 \ 7 \ 8}$ 278
What time is shown on the clock? $5:05$ (Five past five)	
Circle the type of angle marked between the hour and minute hand. Acute Right (Obtuse) Reflex	
At the start of the week, a greengrocer had 2,568 apples. During the week, - 4,009 more apples were delivered - 5,771 apples were sold	How many apples were left at the end of the week? $2 \ 5 \ 6 \ 8$ $+ \ 4 \ 0 \ 0 \ 9$ $\overline{5\overset{1}{6}\,'5 \ 7 \ 7}$ $5 \ 7 \ 7 \ 1 \ -$ $\overline{8 \ 0 \ 6}$ 806

Wednesday- 5 a day

093 5 ⟌ 4⁴6¹5 ⟦ 93 ⟧	12 × ⟦ 20 ⟧ = 10 × 24 10×24=240 ⟦ 20 ⟧
Find the missing numbers	$\begin{array}{r} \boxed{4}\ 6\ 4 \\ +\ 2\ \boxed{8}\ 6 \\ \hline 7\ 5\ \boxed{0} \\ \hline {}_{1}\ \ {}_{1} \end{array}$
Shade in $\dfrac{2}{5}$ of the grid.	
The numbers in this sequence increase by the **same amount** each time. Write in the two missing numbers	+15 ⟦ 31 ⟧ 46 61 ⟦ 76 ⟧ 91

Thursday – 5 a day

2,500 + 2,500 + 2,500 **7500**	$\begin{array}{r} 2\ 1\ 3 \\ 4\overline{\smash{)}8\ 5\,{}^1 2} \end{array}$ **213**
Write down the number which is Five less than three thousand and two. 3002 – 5 $\overset{-2}{\overbrace{3002\quad 3000}}\ \overset{-3}{\overbrace{\quad 2997}}$	**2997**
This table shows the temperature at 7am on three days in December <table><tr><td>1st December</td><td>8th December</td><td>15th December</td></tr><tr><td>-1°C</td><td>5°C</td><td>-3°C</td></tr></table>	What is the difference between the temperatures on 1st December and 8th December? **6° C**
On 22nd December the temperature was 6°C lower than on 15th December. What was the temperature on 22nd December? **-3 - 6 = -9°C**	

$5 - 9$ $\boxed{-4}$	$\begin{array}{r} {}^{0}\!\!\not{9}\,{}^{7}\!\!\not{8}\,{}^{9}\!\!\not{0}\,{}^{1}7 \\ -\ 9\ 4\ 8 \\ \hline 8\ 5\ 9 \end{array}$ $\boxed{8\ 59}$
Gary buys four packets of crisps and pays with a £5 note Here is his change $- £1.60$	Work out the price of 1 packet of crisps $£5 - £1.60 = £3.40$ $\begin{array}{r} 0.8\ 5 \\ 4\overline{)3.^{3}4^{2}0} \end{array}$ $\underline{85p}$
Hannah is 40kg **heavier** than Naomi. The scales show Naomi's weight. How heavy is Hannah? $30 + 40 = \underline{70kg}$	
Louisa is reading a book. She has reached **chapter** XXIV Write XXIV in **figures**	$\underline{24}$

Complete the calculations.

1)

a)

Th	H	T	O

		2	1	6	4
+		3	2	1	3
		5	3	7	7

b)

Th	H	T	O

		4	2	7	5
+		2	6	4	3
		6	9	1	8
			1		

2)

Complete the column additions.

	7	4	3	5
+	2	4	5	6
	9	8	9	1
			1	

	7	4	3	5
+	2	4	6	6
	9	9	0	1
		1	1	

	7	4	3	5
+	2	5	6	6
1	0	0	0	1
	1	1	1	

	7	4	3	5
+	3	5	6	6
1	1	0	0	1
	1	1	1	

3)

Use the column method to work out the additions.

a) £36,000 + £19,420

	£	3	6	0	0	0
+	£	1	9	4	2	0
	£	5	5	4	2	0

c) 843 cm + 15,611 cm

	1	5	6	1	1	cm
			8	4	3	cm
	1	6	4	5	4	cm

b) 40,720 g + 6,872 g

	4	0	7	2	0	g
		6	8	7	2	g
	4	7	5	9	2	g

d) £17,320 + £6,009 + £34,871

	£	1	7	3	2	0
	£		6	0	0	9
+	£	3	4	8	7	1
	£	5	8	2	0	0

4)

The table shows the number of home and away fans attending three football matches.

Match	Home fans	Away fans
1	53,640	12,930
2	42,630	18,340
3	35,480	32,490

Which match had the greatest total attendance?   3

5)

Complete the additions.

a)

	6	4	1	1	2
+	2	5	8	1	4
	8	9	9	2	6

b)

	6	4	0	9	2
+	2	5	8	3	4
	8	9	9	2	6

6)

a) Abdul and Sam

b) Lottie and Ffion

Task 3

1)

	3	2	5	6	1
+		7	6	3	5
	(3)	(9)	1	9	6

	3	2	5	6	1
+		7	6	3	5
	4	0	1	9	6
		1		1	

500 + 600 = 1100. Ravi should have regrouped 10 of the hundreds as 1 thousand, recording the regrouped digit under the thousands column.
2000 + 7000 + 1000 = 10 000, thus giving a final total of 40 196.

	(3	4	5	8)	
+	5	2	6	7	1
	5	7	2	5	1

		3	4	5	8
+	5	2	6	7	1
	5	6	1	2	9
			1		1

Ravi has not lined the digits up in the correct place value columns. The value of the 3 is three thousands but he has put it in the ten thousands column.

		5	2	3	1
+		2	7	8	5
	7	(1	0)	1	6
		1			

		5	2	3	1
+		2	7	8	5
		8	0	1	6
		1		1	

Ravi has started correctly but, when he got to 700 + 200 + 100, he has written this in as 1000. He should have recorded the regrouped digit under the thousands column to add this on to 5000 + 2000.

2)

Children should be encouraged to look at the numbers they are calculating with and use the most efficient method. They should understand that they should always look at the numbers first to decide whether you can add them mentally. In this case, column addition would not be the most efficient method. A mental method, with jottings if needed, would be the most efficient method. You could use your number bond knowledge to add 1200 to 4800, giving a total of 6 000, and then add 11 000 to give a final total of 17 000.

3) 40,126

4) 124,056

5)   *One possible solution is 6125 + 3715 = 9840.*
     Accept any other solutions which work.

Challenge

Share your answers with your teachers and how you managed to get as close to 80,000 as possible!