

**Monday**

**LO: To solve problems using addition calculations**

- I can use my knowledge of place value to line up the digits.
- I can place the decimal in the appropriate place
- I can regroup accurately.
- I can use inverse method to double check my work.

**Number Recap:**

Circle the two numbers which add up to 1

0.1    0.65    0.99    0.45    0.35

Write the missing numbers

8,000,000 is a thousand more than

is ten thousand less than 8,000,000

**Addition:**

753.23 + 32.3 =

Which addition question is properly laid out? Why are the other ones incorrect?

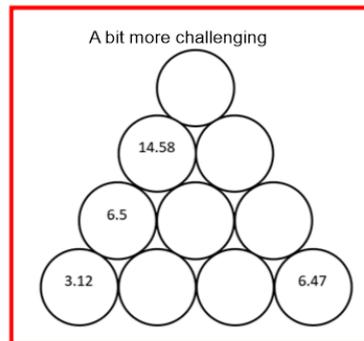
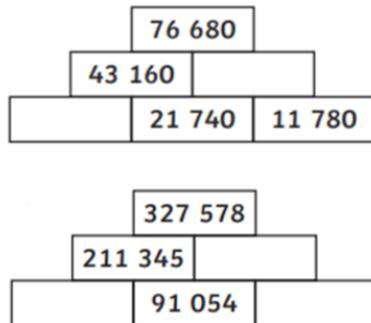
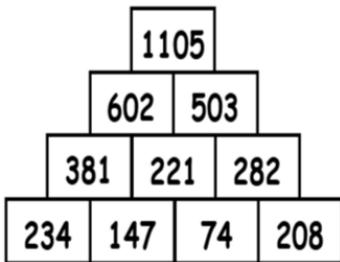
$\begin{array}{r} 753.23 \\ + 32.3 \\ \hline \end{array}$	$\begin{array}{r} 753.23 \\ + 32.30 \\ \hline \end{array}$	$\begin{array}{r} 753.23 \\ + 32.300 \\ \hline \end{array}$
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Which set of questions will you solve? Remember to show your work.

<ol style="list-style-type: none"> <li>1) 5448 + 895 =</li> <li>2) 6854 + 987 =</li> <li>3) 9421 + 841 =</li> <li>4) 96 + 8.17 =</li> <li>5) 63.56 + 89.12 =</li> </ol>	<ol style="list-style-type: none"> <li>1) 54296 + 3597 =</li> <li>2) 356249 + 9845 =</li> <li>3) 6485 + 65236 =</li> <li>4) 52.09 + 7.853 =</li> <li>5) 98349.6 + 792.06 =</li> </ol>	<ol style="list-style-type: none"> <li>1) 65814 + 52896 =</li> <li>2) 742359 + 12485 =</li> <li>3) 2791596 + 42593 + 64786 =</li> <li>4) 671.25 + 456.29 + 2.87 =</li> <li>5) 3092.15 + 52.10 + 45.96 =</li> </ol>
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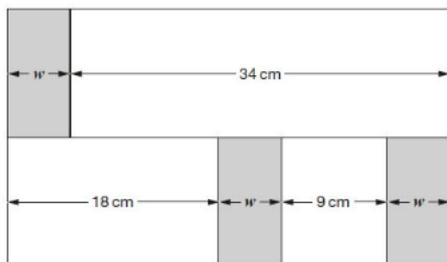
**Challenge**

Think about how this pyramid works.



**Reasoning**

In this diagram, the shaded rectangles are all of equal width (w).



Calculate the width (w) of one shaded rectangle.

**Purple Mash: Missing Numbers (6-digits)**

**Rock Stars:** You should be able to solve calculate all of the timestables

L.O: To solve problems using subtraction calculations

- I can line up the digits according to their place value
- I know where the decimal goes
- I can exchange accurately

Number Recap:

Write the missing numbers in the sequence

6,742,000 6,842,010 6,942,020

Subtraction:

4-2.99=

Why is this method incorrect?

$$\begin{array}{r} 4 \\ - 2.99 \\ \hline \end{array}$$

Why is this method correct?

$$\begin{array}{r} 3 \quad 1 \quad 9 \quad 1 \\ - 4.00 \\ \quad 2.99 \\ \hline 1.01 \end{array}$$

How can I double check using the inverse method?

$$\begin{array}{r} 1 \quad 1 \\ + 1.01 \\ \quad 2.99 \\ \hline 4.00 \end{array}$$

42.3-2.99=

Subtract, solve and double check.

Which method below is the correct way of laying out the question according to place value?

$\begin{array}{r} 42.30 \\ - 2.99 \\ \hline \end{array}$  or  $\begin{array}{r} 42.3 \\ - 2.99 \\ \hline \end{array}$

Which set of questions will you solve? Remember to show all your work. Have you laid out the digits accurately according to place value? Have you exchanged? Where have you placed the decimal? Double check your work using the inverse method.

- 1) 6 - 2.84
- 2) 34.2 - 4
- 3) 437 - 99
- 4) 3534 - 1092
- 5) 98.9 - 32.3 - 1.1

- 1) 75 - 18.96
- 2) 101 - 99.9
- 3) 9353 - 4649
- 4) 30445 - 3999
- 5) 843242.23 - 74932.3

- 1) 537696.5 - 3269.3
- 2) 884376.57 - 7865.2
- 3) 3504.9 - 456.4 - 366.1
- 4) 845 + 353.3 - 75.5
- 5) 13<sup>2</sup> + 9<sup>2</sup> + 2<sup>3</sup> - 5<sup>3</sup>

Challenge

A shop sells notebooks and pens.



- Hassan bought a notebook and a pen.
- He paid £1.10
- Kate bought a notebook and 2 pens.
- She paid £1.45
- Calculate the cost of a notebook.

Reasoning

The rule to get each number in a sequence is

subtract the previous number from 100, then divide the answer by 2

Here is part of the sequence.

Write the two missing numbers.

40 30 35 32.5 33.75

L.O: To solve problems involving multiplication calculations

- I know my multiplication facts
- I can regroup accurately
- I can place the digits in their appropriate place value
- I know where the decimal goes

Number Recap:

The numbers in this sequence increase by the same amount each time.

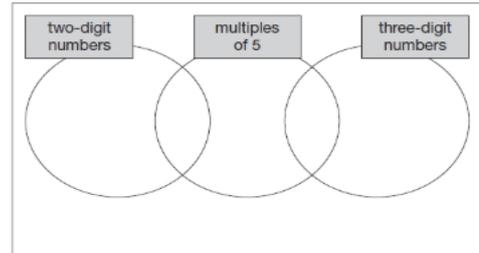
Write the missing numbers.



Here is a diagram for sorting numbers.

Write each number in its correct place on the diagram.

2      20      201      2000



Multiplication:

How do we show regrouping?				If I know, that the digit 2 in 24 is in the tens place, where do I place the digits?			
1	2	5	2	1	2	5	2
X			4	X		2	4
5	0	0	8	5	0	0	8
				2	5	0	4
				3	0	0	4

Where does the decimal go?			
1		1	
2	6	2	5
X			3
7	8	7	5

Which set of questions will you solve?

- 1)  $83 \times 4$
- 2)  $355 \times 7$
- 3)  $9365 \times 3$
- 4)  $46 \times 12$
- 5)  $100 \times 100$

- 1)  $353 \times 9$
- 2)  $6499 \times 3$
- 3)  $503 \times 21$
- 4)  $845.4 \times 2$
- 5)  $63532 \times 3.2$

- 1)  $268.76 \times 87$
- 2)  $36754 \times 86$
- 3)  $587434 \times 9.7$
- 4)  $589692 \times 21.2$
- 5)  $4657 \times 356 \times 28$

Challenge

	x 10	x 100	x 1000
5.7			
23.02			

Reasoning

A toy shop orders 11 boxes of marbles.  
 Each box contains 6 bags of marbles.  
 Each bag contains 45 marbles.

How many marbles does the shop order in total?

LO: To solve problems involving division calculations

- I know my multiplication and division facts
- I can use either short or long division methods
- I can use the inverse method to double check my answer

Number Recap:

2700 ÷ 30

360 ÷ 9 =

125 ÷ 25 =

6300 ÷ (7 × 9)

Short and Long Division:

		2	1	6				2	1	6	
6	1	2	8	2	4	6	1	2	8	4	
							1	2			
								0	8		
									6		
										2	4
										2	4
											0

Which set of questions will you solve? Will you use short or long division to solve?

1. 525 ÷ 5 =

2. 219 ÷ 3 =

3. 126 ÷ 2 =

4. 328 ÷ 4 =

5. 5455 ÷ 5 =

1. 472 ÷ 4 =

2. 968 ÷ 8 =

3. 904 ÷ 2 =

4. 8,792 ÷ 7 =

5. 32,832 ÷ 9 =

1. 8,792 ÷ 7 =

2. 32,832 ÷ 9 =

3. 67,445 ÷ 7 =

4. 66045.07 ÷ 91

5. 142 ÷ 4 = (decimal answer)

Challenge:

Workout the value of C

4,950				
A	A	A		
A				
B	B	B		
B				
C	C	C	C	C

Find the missing digits.

0	4	1	□	r3
4	1	□	5	9

Reasoning

A farmer is packing eggs.  
Each box holds six eggs.



The farmer has 980 eggs to pack.  
How many boxes can the farmer fill using 980 eggs?

How many eggs will be left over?

full boxes

left over

L.O: To solve word problems using all 4 operations

- I can carefully read and understand the word problem
- I can use RUCSAC
- I can use my knowledge of the 4 operations to solve the equations
- I can solve multi-step problems



Arithmetic Review:

<b>1</b>	13 - 17 =		<b>5</b>	$\begin{array}{r} 1,993 \\ \times 6 \\ \hline \end{array}$	
<b>2</b>	$\begin{array}{r} 804,456 \\ + 298,792 \\ \hline \end{array}$		<b>6</b>	300,001 - ? = 200,002	
<b>3</b>	601,600 - 1,000 - 1,000 =		<b>7</b>	8,954 + 6 =	
<b>4</b>	801,821 - 16,927 =		<b>8</b>	360 - 50 × 7 =	

Word Problems

<b>1</b>	The first year we had a school fete we raised £312. We raised ten times as much money this year. How much did we raise?
<b>2</b>	5639 people attended a football match. The previous week 7564 people attended a match. What is the difference in attendance figures for the two weeks?
<b>3</b>	A netball team is made up of 7 players. If 212 children turn up to a netball tournament, how many full teams could you make?
<b>4</b>	A flower shop sells roses for £1.79, carnations for £1.25 and buttercups for £1.30. Holly decides to buy 3 roses and a buttercup. How much does she spend?
<b>5</b>	3 friends agree to split the cost of a meal. They each pay £12.68. How much was the meal?
<b>1</b>	Mrs Orange decides to share her savings between her six grandchildren. She has £350 in her savings tin and £1450 in her savings account. How much will each of her grandchildren get?
<b>2</b>	Green lollipops come in packs of 5, yellow lollipops come in packs of 6 and blue lollipops come in packs of 4. A school buys 32 packs of blue lollipops and 18 packs of green lollipops. How many lollipops will they buy altogether?
<b>3</b>	The baker's oven can bake 28 loaves of bread at a time. In a day, it can go through 30 full bakes. How many loaves of bread would be baked after 1 week?
<b>4</b>	Ms Purple sells cars for a living. In one day, she sells 2 blue cars (at £4500 each), 7 yellow cars (at £6000 each) and 12 black cars (at £8000 each). How much money does she take in car sales in that one day?
<b>5</b>	Coaches carry 58 people. A school decides to take its 300 pupils and 38 staff on a visit to the beach. A single coach costs £128. How much will the total cost of the coaches come to?
<b>1</b>	A warehouse contains 24 672 boxes. There is a stack of boxes 24 boxes wide, 35 boxes deep and 12 boxes high. How many boxes are there in the warehouse that are not in this stack?
<b>2</b>	A football groundsman needs to know the area of grass of the stadium. The pitch itself is 102m long and 74m wide. There is a 1m strip of grass down each side, and 3m at each end. What is the total area of the grass?
<b>3</b>	A house builder needs 250 000 bricks to build some houses. Bricks come in pallets of approximately 500 bricks and weigh 1750 kg. What is the weight of the pallets the builder needs to order?
<b>4</b>	A stationery shop has 398 boxes of 12 pencils and 184 boxes of 24 pencils. How many pencils does the shop have altogether?
<b>5</b>	A factory produces 8237 tennis balls in one day. The balls are packed onto tubes of 3 balls. Each tube is placed in a box of 15 tubes. How many boxes are filled by the 8237 tennis balls?

Purple Mash Mental Calculations

Rockstars