Please note: Here is the
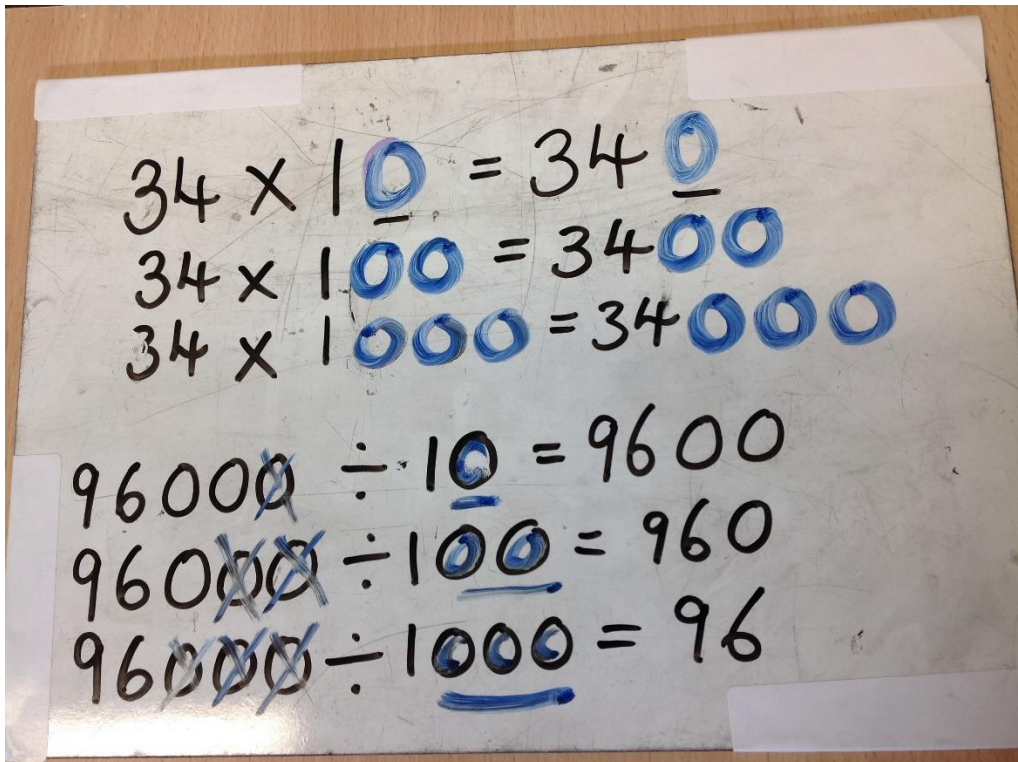
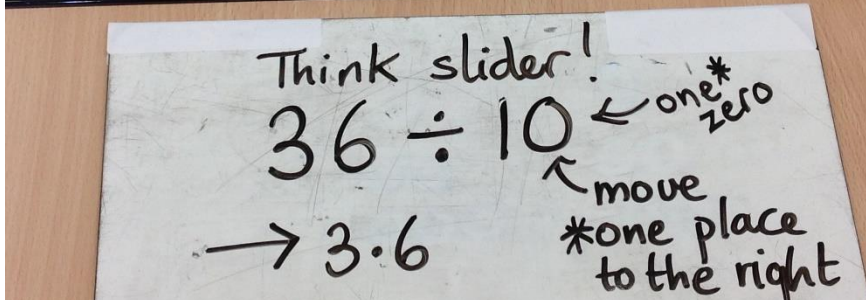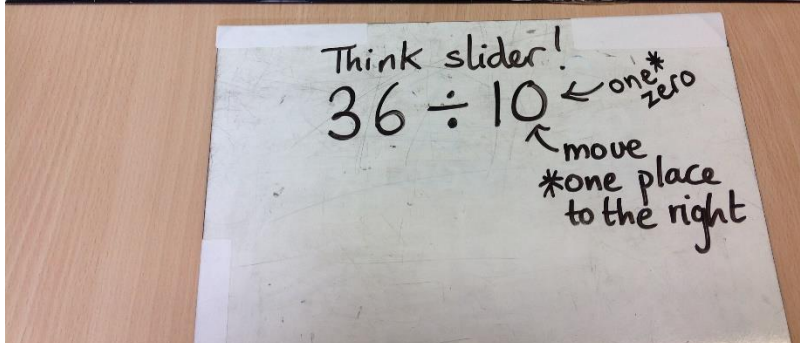**Monday**+**Tuesday**+**Wednesday** sequence of y5 Maths and for answers scroll to end of all documents

Y5 Monday 30th March:

A.Copy out and colour code these examples as revision posters to help to remember:

$$34 \times 10 = 340$$
$$34 \times 100 = 3400$$
$$34 \times 1000 = 34000$$

$$96000 \div 10 = 9600$$
$$96000 \div 100 = 960$$
$$96000 \div 1000 = 96$$

Also remember the slider when you need to move digits and keep decimal point in same place like this:

Think slider!
36 ÷ 10 ← one* zero
↖ move
*one place
to the right

Think slider!
36 ÷ 10 ← one* zero
↖ move
*one place
to the right
→ 3·6

Remember to divide by 100 move digits two places to right

To divide by 1000 move 3 places to right

B. pre-assessment focus spr.2 wk.1 (see below)

Spring 2: Week 1: Pre-Learning Task

The pre-learning task below could be used to assess pupils' starting points within this objective. It needs to be completed by all/ or some of the pupils in advance of the main teaching.

Name	Spring 2: Week 1
Objective: Multiplication & Division	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.

Multiply the following numbers by 10, 100 or 1000			Divide the following numbers by 10, 100 or 1000		
231 x 10			542 ÷ 10		
27.4 x 10			234.7 ÷ 10		
238 x 100			3289 ÷ 100		
2.52 x 100			345.12 ÷ 100		
218 x 1000			6721 ÷ 1000		
34.123 x 1000			6212.8 ÷ 1000		
32.1 x 1000			3.123 ÷100		

On Monday please

Tuesday 31ˢᵗ March:

Skills worksheet (practice and consolidation)

Consolidation

ivide whole numbers and those involving decimals by 10,

Pencil and Paper Activities
Examples:

	X 10	X 100	X 1000
34			
126			
2371			
2187			
271			

	÷ 10	÷ 100	÷ 1000
5281			
6721			
9014			
7812			
891			

Multiply by 10; 100 and 1000

23.135   25.152   87.261   136.257   23.11   289.12

Divide by 10, 100 and 1000

67.12   42.16   425.125   67.21   95.32   56.17   91.34

Wednesday/ Thursday see how far you can move through mastery to greater depth.

Mastery:

If pupils have mastered this objective they will be able to complete these activities independently:

Very rapidly multiply the following by 10.

32.3   45.6   176 23   349.23   1.678

Now do the same by very rapidly multiplying by 100:

23.12   672.12   98   12.56   23.67

Now, divide these by 10 very rapidly:

2.45   15,23   351.34   267.23   1.56

At the school concert there were 200 seats. The tickets were all sold and the school collected £2,400 for them.
Find a quick way of working out how much each ticket cost.

The shopkeeper announced that he had just received a special delivery of the new Wonka chocolate bar. He sold all his 2000 bars within the hour. He added up the money he took for them and it came to £2400. Find a quick way of finding out how much each bar cost.

If you know how to multiply by 10, how can you go about multiplying by multiples of 10?

Look at this example: 234 x 20
You know 234 x 10 = 2340
then multiply 2340 x 2 = 4680

Now complete these:
347 x 30   379 x 40   161 x 30
563 x 20   432 x 50   283 x 30
671 x 20   523 x 60   116 x 40

Very rapidly divide the following by 100.

32.3   45.6   176 23   349.23   1.678

Now do the same by very rapidly dividing by 1000:

123.12   672.12   98   102.56   23.67

Now, multiply these by 10 very rapidly:

2.45   15,23   351.34   267.23   1.56

Greater Depth:

Activities for pupils working at greater depth:

At a recent music festival the organisers sold exactly 4000 tickets.
The money they collected from the tickets was £104,000. How much did each ticket cost. Did you work out a quick way of doing this?
In addition each person spent on average £24.89 on food and souvenir items.
How much money was collected for food and souvenirs?
The festival cost £154,000 to put on, including food and souvenirs. Did the festival make a profit? Show your workings.

A new football stadium is being built. The seating is arranged in blocks of 100.
There are 4 sides to the stadium (North Stand; East Stand; South Stand and West Stand).
The North Stand will have 36 blocks of 100; the East Stand will have 48 blocks of 100; the South Stand will have 54 blocks of 100; and the West Stand will have 19 blocks of 100.
How many seats will the stadium have in total.

10 gymnastic competitors wanted time on the competition floor before the final started. They had 4 hours and 40 minutes before the floor was closed. How much time was each allocated on the floor before the final started?

A footballer touches the ball every 100 seconds. If s/he is playing for 90 minutes, how many times will they touch the ball?

For every block of 100 tickets in the West Stand the football club receives £3,665. How much will each West Stand ticket cost? How much will the club get if the West Stand is full?

For every block of 100 tickets in the South Stand the football club receives £4,865. How much will each South Stand ticket cost?
How much will the club get if the South Stand is full?

Don't peep at the answers!

Ask an adult to mark with you.

Answers below:

Focus Maths Answers   Year 5

Spring Term 2   Week 1

Page 116   Pre-Learning Task

Multiply the following numbers by 10, 100 or 1000		Divide the following numbers by 10, 100 or 1000	
231 x 10	**2310**	542 ÷ 10	**54.2**
27.4 x 10	**274**	234.7 ÷ 10	**23.47**
238 x 100	**23800**	3289 ÷ 100	**32.89**
2.52 x 100	**252**	345.12 ÷ 100	**3.4512**
218 x 1000	**218000**	6721 ÷ 1000	**6.721**
34.123 x 1000	**34123**	6212.8 ÷ 1000	**6.2128**
32.1 x 1000	**32100**	3.123 ÷100	**0.03123**
237.32 x 100	**23732**	3.12 ÷ 10	**0.312**

Page 117   Practice and Consolidation

	X 10	X 100	X 1000
34	**340**	**3400**	**34000**
126	**1260**	**12600**	**126000**
2371	**23710**	**237100**	**2371000**
2187	**21870**	**218700**	**2187000**
271	**2710**	**27100**	**271000**

	÷ 10	÷ 100	÷ 1000
5281	**528.1**	**52.81**	**5.281**
6721	**672.1**	**67.21**	**6.721**
9014	**901.4**	**90.14**	**9.014**
7812	**781.2**	**78.12**	**7.812**
891	**89.1**	**8.91**	**0.891**

Multiply by 10; 100 and 1000

	X 10	X 100	X 1000
23.135	**231.35**	**2313.5**	**23135**
25.152	**251.52**	**2515.2**	**25152**
87.261	**872.61**	**8726.1**	**87261**
136.257	**1362.57**	**13625.7**	**136257**
23.11	**231.1**	**2311**	**23110**
289.12	**2891.2**	**28912**	**289120**

Divide by 10, 100 and 1000

	÷ 10	÷ 100	÷ 1000
67.12	**6.712**	**0.6712**	**0.06712**
42.16	**4.216**	**0.4216**	**0.04216**
425.125	**42.5125**	**4.25125**	**0.425125**
67.21	**6.721**	**0.6721**	**0.06721**
95.32	**9.532**	**0.9532**	**0.09532**
56.17	**5.617**	**0.5617**	**0.05617**
91.34	**9.134**	**0.9134**	**0.09134**

Page 118   Mastering this Objective

Very rapidly multiply the following by 10.
32.3 - **323**   45.6 - **456**   176.23 – **1762.3**   349.23 – **3492.3**   1.678 – **16.78**

Now do the same by very rapidly multiplying by 100:
23.12 – **2312**   672.12 – **67212**   98 – **9800**   12.56 – **1256**   23.67 - **2367**

Now, divide these by 10 very rapidly:
2.45 – **0.245**   15.23 – **1.523**   351.34 – **35.134**   267.23 – **26.723**   1.56 – **0.156**

If you know how to multiply by 10, how can you go about multiplying by multiples of 10? Look at this example: 234 x 20, you know 234 x 10 = 2340, then multiply 2340 x 2 = 4680
Now complete these:
347 x 30 = **10410**   379 x 40 = **15160**   161 x 30 = **4830**
563 x 20 = **11260**   432 x 50 = **21600**   283 x 30 = **8490**
671 x 20 = **13420**   523 x 60 = **31380**   116 x 40 = **4640**

At the school concert there were 200 seats. The tickets were all sold and the school collected £2,400 for them. Find a quick way of working out how much each ticket cost. 2400 ÷ 2 = 1200 ÷ 100 = **£12**

The shopkeeper announced that he had just received a special delivery of the new Wonka chocolate bar. He sold all his 2000 bars within the hour. He added up the money he took for them and it came to £2400. Find a quick way of finding out how much each bar cost. 2400 ÷ 2 = 1200 ÷ 1000 = **£1.20**

Very rapidly divide the following by 100.
32.3 – **0.323**   45.6 - **0.456**   176.23 – **1.7623**   349.23 – **3.4923**   1.678 – **0.01678**

Now do the same by very rapidly dividing by 1000:
123.12 – **0.12312**   672.12 – **0.67212**   98 – **0.098**   102.56 – **0.10256**
23.67 – **0.02367**

Now, multiply these by 10 very rapidly:
2.45 – **24.5**   15.23 – **152.3**   351.34 – **3513.4**   267.23 – **2672.3**   1.56 – **15.6**

Page 119   Working at greater depth

At a recent music festival the organisers sold exactly 4000 tickets. The money they collected from the tickets was £104,000. How much did each ticket cost? Did you work out a quick way of doing this? 104000 ÷1000 = 104 ÷4 =**£26**
In addition each person spent on average £24.89 on food and souvenir items. How much money was collected for food and souvenirs? **£99560**
The festival cost £154,000 to put on, including food and souvenirs. Did the festival make a profit? Show your workings. £104000 + £99560 = **£203,560, they made a profit of £49,560.**

10 gymnastic competitors wanted time on the competition floor before the final started. They had 4 hours and 40 minutes before the floor was closed. How much time was each allocated on the floor before the final started?
4 hours 40 mins= 280 mins ÷ 10 = **28 minutes**
A footballer touches the ball every 100 seconds. If s/he is playing for 90 minutes, how many times will they touch the ball? 90 x 60 = 5400 seconds
5400 ÷ 100 = **54 times**

A new football stadium is being built. The seating is arranged in blocks of 100. There are 4 sides to the stadium (North Stand; East Stand; South Stand and West Stand). The North Stand will have 36 blocks of 100; the East Stand will have 48 blocks of 100; the South Stand will have 54 blocks of 100; and the West Stand will have 19 blocks of 100. How many seats will the stadium have in total?   (36 x 100) + (48 x 100) + (54 x 100) + (19 x 100) =
3600 + 4800 + 5400 + 1900 = **15700 seats**

For every block of 100 tickets in the West Stand the football club receives £3,665. How much will each West Stand ticket cost? **£36.65**
How much will the club get if the West Stand is full? **£69,635**
For every block of 100 tickets in the South Stand the football club receives £4,865. How much will each South Stand ticket cost? **£48.65**
How much will the club get if the South Stand is full? **£262,710**

Focus Maths Answers   Year 5

Spring Term 2   Week 1

Page 116   Pre-Learning Task

Multiply the following numbers by 10, 100 or 1000		Divide the following numbers by 10, 100 or 1000	
231 x 10	**2310**	542 ÷ 10	**54.2**
27.4 x 10	**274**	234.7 ÷ 10	**23.47**
238 x 100	**23800**	3289 ÷ 100	**32.89**
2.52 x 100	**252**	345.12 ÷ 100	**3.4512**
218 x 1000	**218000**	6721 ÷ 1000	**6.721**
34.123 x 1000	**34123**	6212.8 ÷ 1000	**6.2128**
32.1 x 1000	**32100**	3.123 ÷100	**0.03123**
237.32 x 100	**23732**	3.12 ÷ 10	**0.312**

Page 117   Practice and Consolidation

	X 10	X 100	X 1000
34	**340**	**3400**	**34000**
126	**1260**	**12600**	**126000**
2371	**23710**	**237100**	**2371000**
2187	**21870**	**218700**	**2187000**
271	**2710**	**27100**	**271000**

	÷ 10	÷ 100	÷ 1000
5281	**528.1**	**52.81**	**5.281**
6721	**672.1**	**67.21**	**6.721**
9014	**901.4**	**90.14**	**9.014**
7812	**781.2**	**78.12**	**7.812**
891	**89.1**	**8.91**	**0.891**

Multiply by 10; 100 and 1000

	X 10	X 100	X 1000
23.135	**231.35**	**2313.5**	**23135**
25.152	**251.52**	**2515.2**	**25152**
87.261	**872.61**	**8726.1**	**87261**
136.257	**1362.57**	**13625.7**	**136257**
23.11	**231.1**	**2311**	**23110**
289.12	**2891.2**	**28912**	**289120**

Divide by 10, 100 and 1000

	÷ 10	÷ 100	÷ 1000
67.12	**6.712**	**0.6712**	**0.06712**
42.16	**4.216**	**0.4216**	**0.04216**
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56.17	**5.617**	**0.5617**	**0.05617**
91.34	**9.134**	**0.9134**	**0.09134**

Page 118   Mastering this Objective

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Now, divide these by 10 very rapidly:
2.45 – **0.245**   15.23 – **1.523**   351.34 – **35.134**   267.23 – **26.723**   1.56 – **0.156**

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Now, multiply these by 10 very rapidly:
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Page 119   Working at greater depth

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          3600 + 4800 + 5400 + 1900 = **15700 seats**

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How much will the club get if the West Stand is full? **£69,635**
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