Week 7, Day 3 **Mental multiplication and division**

Each day covers one maths topic. It should take you about 1 hour or just a little more.

- Start by reading through the Learning Reminders. 1. They come from our *PowerPoint* slides. 2 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 Sketch a line from 2.3 to 2.4. Write a number that goes between 2.3 and 2.4.
- Tackle the questions on the Practice Sheet. 2. There might be a choice of either Mild (easier) or Hot (harder)! Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

Have I mastered the topic? A few questions to 4. Check your understanding. Fold the page to hide the answers!





8. 5.846 - 0.211

10. 5.846 - 0.013

12. 4789 + 0.00

7. 6.231 + 0.011

5.846 - 0.13

11. 5.846 - 0.204



Identify the value of the '4' in the following numbers

nes must Dan multiply 0.048 by 10 to p

What number is one hundred times smaller than 0.4?

(a) 3.407

(b) 4.821 (c) 0.043 (d) 5.104

(e) 48,739

Learning Reminders



A2 ÷ 7 = 6 so, 420 ÷ 7 = 60

Learning Reminders







Practice Sheets Answers

Multiplying 10s and 100s by 1-digit numbers (mild)

Section 1

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6 × 2 = <mark>12</mark>	6 × 20 = <mark>120</mark>	120 ÷ 6 = 20
3 × 5 = <mark>15</mark>	3 × 50 = <mark>150</mark>	150 ÷ 3 = 50
4 × 9 = <mark>36</mark>	4 × 90 = <mark>360</mark>	<mark>360</mark> ÷ 4 = 90
2 × 2 = 4	2 × 200 = 400	400 ÷ 2 = 200
9 × 3 = 27	9 × 300 = 2700	2700 ÷ 9 = 300
5 × 4 = <mark>20</mark>	5 × 400 = 2000	2000 ÷ 5 = 400
Section 2		
4 × 4 = 16	4 × 40 = 160	160 ÷ 4 = 40

4 × 4 – 10	4 × 40 – 100	$100 \div 4 - 40$
3 × 7 = 21	3 × 700 = 2100	2100 ÷ 3 = 700
6 × 8 = <mark>48</mark>	6 × 80 = <mark>480</mark>	480 ÷ 6 = 80

Multiplying 10s and 100s by 1-digit numbers (hot)

Section 1

<mark>9</mark> × 6 = 54	<mark>9</mark> × 600 = 5400	5400 ÷ <mark>9</mark> = 600
7 × 9 = <mark>63</mark>	7 × 900 = <mark>6300</mark>	<mark>6300</mark> ÷ 7 = 900
8 × <mark>3</mark> = 24	8 × <mark>30</mark> = 240	240 ÷ 8 = 30

Section 2

7 × <mark>4</mark> = 28	7 × <mark>40</mark> = 280	280 ÷ 7 = <mark>40</mark>
6 × 7 = <mark>42</mark>	6 × 70 = 420	420 ÷ 6 = 70
<mark>8</mark> × 8 = 64	<mark>8</mark> × 800 = 6400	6400 ÷ <mark>8</mark> = 800
11 × 6 = <mark>66</mark>	1100 × 6 = 6600	<mark>6600</mark> ÷ 6 = 1100
4 × <mark>12</mark> = 48	4 × <mark>120</mark> = 480	480 ÷ 4 = <mark>120</mark>
<mark>12</mark> × 9 = 108	<mark>1200</mark> x 9 = 10,800	10,800 ÷ 9 = <mark>1200</mark>

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A Bit Stuck? The 60 times table

Write out the 60 times table up to 10×60 . Use your 6 times table and multiplying by 10 to help.

1 x 60 = 60 2 x 60 = 120 3 x 60 = ...

Answer these questions

How many 60s are in 240?

How many 60s are in 360?

How many 60s are in 480?

U		
0		
0	There are	60s ín 240.
0		
0	There are	60s ín 360.
0		
0	There are	60s in 480.
\sim		

S-t-r-e-t-c-h:

Use what you have written to answer these questions:



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Check your understanding Questions

Write 360 ÷	=	then complete the sentence in at least four of	different
ways.			

Jimmy writes: 40 x 5 = 2000. Is he correct? What might he not understand yet?

Write three mega-facts to match $4 \times 8 = 32$. At least one must be a division fact!

'Fact families'... Which four number sentences link these numbers: 5600, 8, 700 ? And these: 4000, 50, 80?

Check your understanding: Answers

Write $360 \div$ = then complete the sentence in at least four different ways. Children should use their knowledge of factors of 36. Possible solutions: $360 \div 2 = 180, 360 \div 3 = 120, 360 \div 4 = 90, 360 \div 6 = 60,$ $360 \div 9 = 40, 360 \div 12 = 30, 360 \div 18 = 20.$ 360 can also be divided by each of those answers, e.g. $360 \div 180 = 2, 360 \div 120$ = 3 etc.

Jimmy writes: 40 x 5 = 2000.

Is he correct? What might he not understand yet?

He is not correct since the answer is 200. He may have misread the question as 40 x 50 or made a place value error.

Write three LARGE or mega-facts to match 4 x 8 = 32. At least one must be a division fact! Examples include 40 x 8 = 320, 4 x 80 = 320, 400 x 8 = 3200, 4 x 800 = 3200, 40 x 80 = 3200 and any division linked to one of those.

'Fact families'... Which four number sentences link these numbers: 5600, 8, 700 700 x 8 = 5600, 8 x 700 = 5600, 5600 ÷ 8 = 700, 5600 ÷ 700 = 8. And these: 4000, 50, 80 50 x 80 = 4000, 80 x 50 = 4000, 4000 ÷ 80 = 50, 4000 ÷ 80 = 50.