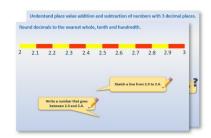
Week 7, Day 3

Mental multiplication and division

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

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

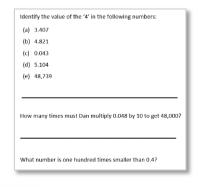


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

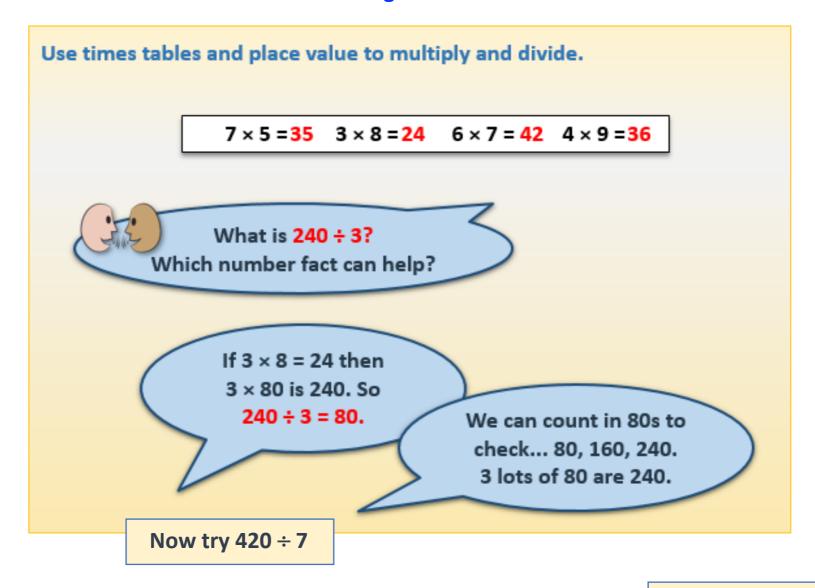


4. Have I mastered the topic? A few questions to **Check your understanding.**

Fold the page to hide the answers!

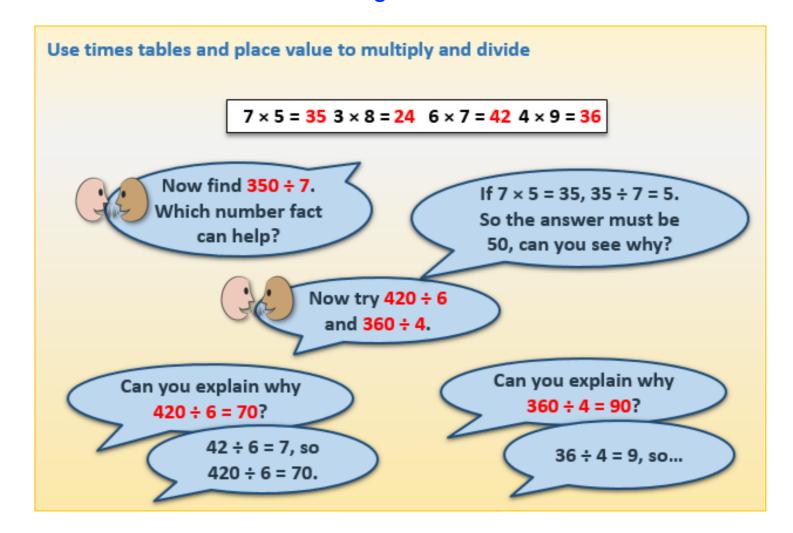


Learning Reminders



Answer $\Delta = 6$ so, $\Delta = 7 \div 5$

Learning Reminders



Practice Sheet Mild

Multiplying 10s and 100s by 1-digit numbers

Section 1

Section 2

Practice Sheet Hot Multiplying 10s and 100s by 1-digit numbers

Section 1

Section 2

$$\times 9 = 108$$

$$() \times 9 = 10,800$$

$$10,800 \div 9 =$$

Practice Sheets Answers

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

Section 1

$6 \times 2 = 12$	$6 \times 20 = 120$	$120 \div 6 = 20$
$3 \times 5 = 15$	$3 \times 50 = 150$	$150 \div 3 = 50$
$4 \times 9 = 36$	$4 \times 90 = 360$	$360 \div 4 = 90$
$2 \times 2 = 4$	$2 \times 200 = 400$	$400 \div 2 = 200$
$9 \times 3 = 27$	$9 \times 300 = 2700$	$2700 \div 9 = 300$
$5 \times 4 = 20$	$5 \times 400 = 2000$	$2000 \div 5 = 400$

Section 2

$4 \times 4 = 16$	$4 \times 40 = 160$	$160 \div 4 = 40$
$3 \times 7 = 21$	$3 \times 700 = 2100$	$2100 \div 3 = 700$
$6 \times 8 = 48$	$6 \times 80 = 480$	$480 \div 6 = 80$

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

Section 1

$9 \times 6 = 54$	$9 \times 600 = 5400$	$5400 \div 9 = 600$
$7 \times 9 = 63$	$7 \times 900 = 6300$	$6300 \div 7 = 900$
$8 \times 3 = 24$	$8 \times 30 = 240$	$240 \div 8 = 30$

Section 2

$7 \times 4 = 28$	$7 \times 40 = 280$	$280 \div 7 = 40$
$6 \times 7 = 42$	$6 \times 70 = 420$	$420 \div 6 = 70$
$8 \times 8 = 64$	$8 \times 800 = 6400$	$6400 \div 8 = 800$
$11 \times 6 = 66$	$1100 \times 6 = 6600$	6600 ÷ 6 = 1100
$4 \times 12 = 48$	$4 \times 120 = 480$	$480 \div 4 = 120$
12 × 9 = 108	$1200 \times 9 = 10,800$	$10,800 \div 9 = 1200$

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.

$$1 \times 60 = 60$$

$$2 \times 60 = 120$$

$$3 \times 60 = ...$$

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 in	240.
0		
0	There are 60s in	360.
0		
0	There are 60s in	480.
(

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

Use what you have written to answer these questions:

Check your understanding Questions

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: $40 \times 5 = 2000$.

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 40×50 or made a place value error.

Write three LARGE or mega-facts to match $4 \times 8 = 32$.

At least one must be a division fact!

Examples include $40 \times 8 = 320$, $4 \times 80 = 320$, $400 \times 8 = 3200$, $4 \times 800 = 3200$, $40 \times 80 = 3200$ and any division linked to one of those.

'Fact families'... Which four number sentences link these numbers:

5600, 8, 700

 $700 \times 8 = 5600$, $8 \times 700 = 5600$, $5600 \div 8 = 700$, $5600 \div 700 = 8$.

And these: 4000, 50, 80

 $50 \times 80 = 4000$, $80 \times 50 = 4000$, $4000 \div 80 = 50$, $4000 \div 80 = 50$.