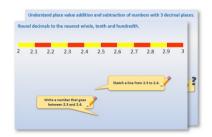
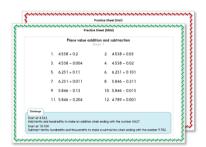
Use mental strategies to divide by 5, 20, 6, 4 and 8.

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. They come from our PowerPoint slides.



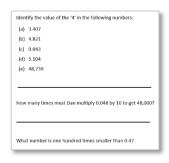
Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.



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



- 4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...
- 5. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!



Learning Reminders

Use mental strategies to divide by 5, 20, 6, 4 and 8.

$$240 \div 10 = 24$$

 $240 \div 5 = 48$

We can divide numbers by 5 by dividing by 10, and then doubling.

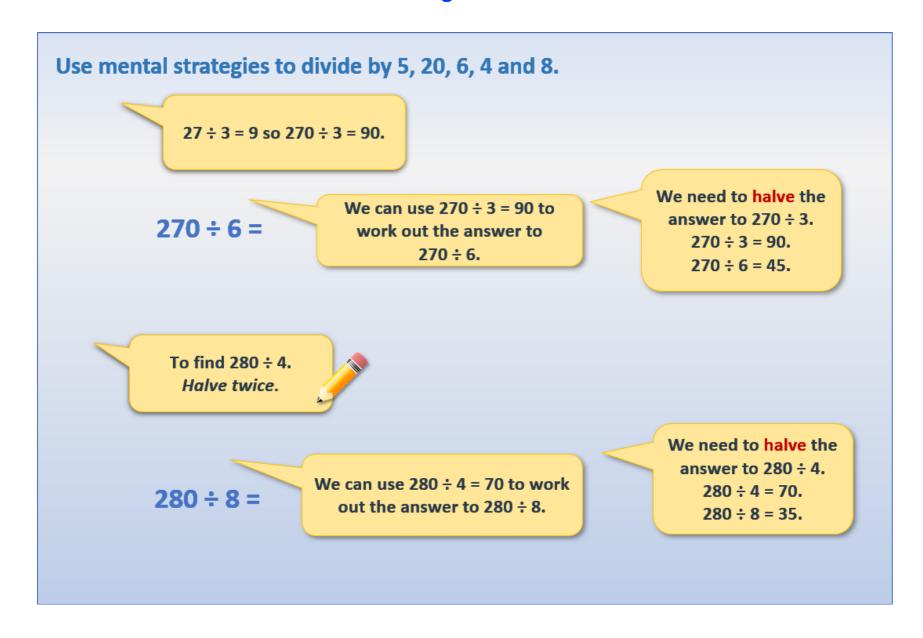
We can <u>double</u> the answer to 240 ÷ 10 to find 240 ÷ 5. If a number is split into smaller groups, there will be more groups, so dividing by a smaller number gives a bigger answer.

240 ÷ 20 = 12

We can divide numbers by 20 by dividing by 10, and then halving.

We can <u>halve</u> the answer to 240 ÷ 10 to find 240 ÷ 10. If a number is split into bigger groups, there will be fewer groups, so dividing by a bigger number gives a smaller answer.

Learning Reminders



Multiplying 10s and 100s by 1-digit numbers

Section 1

$$\div$$
 3 = 50

Section 2

Practice Sheet Mild

Mental strategies for division

1.
$$360 \div 10$$

$$360 \div 20$$

$$360 \div 5$$

$$180 \div 20$$

$$3. \quad 420 \div 10$$

4.
$$540 \div 10$$

$$540 \div 5$$

5.
$$150 \div 3$$

6.
$$210 \div 3$$

7.
$$450 \div 3$$

8.
$$200 \div 2$$

9.
$$288 \div 2$$

$$288 \div 4$$

$$288 \div 8$$

$$10. 216 \div 2$$

Practice Sheet Hot

Mental strategies for division

1.
$$780 \div 10$$

$$780 \div 20$$

$$780 \div 5$$

$$2. \quad 430 \div 10$$

$$370 \div 20$$

$$370 \div 5$$

5.
$$312 \div 3$$

$$312 \div 6$$

6.
$$123 \div 3$$

7.
$$336 \div 2$$

$$336 \div 4$$

$$336 \div 8$$

8.
$$656 \div 2$$

$$10.260 \div 2$$

Challenge

Which of these three statements is true? Estimate first then use mental strategies to check.

A.
$$240 \div 6 < 480 \div 12$$

B.
$$240 \div 6 > 120 \div 3$$

C.
$$240 \div 6 < 360 \div 2$$

Practice Sheets Answers

Mental strategies for division (mild)

1.	360 ÷ 10 = 36	360 ÷ 20 = 18	$360 \div 5 = 72$
2.	180 ÷ 10 = 18	180 ÷ 20 = 9	$180 \div 5 = 36$
3.	420 ÷ 10 = 42	420 ÷ 20 = 21	$420 \div 5 = 84$
4.	540 ÷ 10 = 54	540 ÷ 20 = 27	$540 \div 5 = 108$
5 .	150 ÷ 3 = 50	150 ÷ 6 = 25	
6.	210 ÷ 3 = 70	210 ÷ 6 = 35	
7.	450 ÷ 3 = 150	450 ÷ 6 = 75	
8.	200 ÷ 2 = 100	200 ÷ 4 = 50	$200 \div 8 = 25$
9.	288 ÷ 2 = 144	288 ÷ 4 = 72	$288 \div 8 = 36$
10.	216 ÷ 2 = 108	216 ÷ 4 = 54	$216 \div 8 = 27$

Mental strategies for division (hot)

1.	780 ÷ 10 = 78	$780 \div 20 = 39$	780 ÷ 5 = 156
2.	$430 \div 10 = 43$	$430 \div 20 = 21.5$	$430 \div 5 = 86$
3.	$370 \div 10 = 37$	$370 \div 20 = 18.5$	$370 \div 5 = 74$
4.	$270 \div 3 = 90$	270 ÷ 6 = 45	
5 .	$312 \div 3 = 104$	$312 \div 6 = 52$	
6.	$123 \div 3 = 41$	$123 \div 6 = 20.5$	
7.	336 ÷ 2 = 168	$336 \div 4 = 84$	$336 \div 8 = 42$
8.	$656 \div 2 = 328$	656 ÷ 4 = 164	656 ÷ 8 = 82
9.	172 ÷ 2 = 86	$172 \div 4 = 43$	$172 \div 8 = 21.5$
10.	260 ÷ 2 = 130	260 ÷ 4 = 65	$260 \div 8 = 32.5$

Challenge

A is false as $240 \div 6 = 480 \div 12$ B is false as $240 \div 6 = 120 \div 3$. C is true. $240 \div 6 = 40$ and $360 \div 2 = 180$

Answers

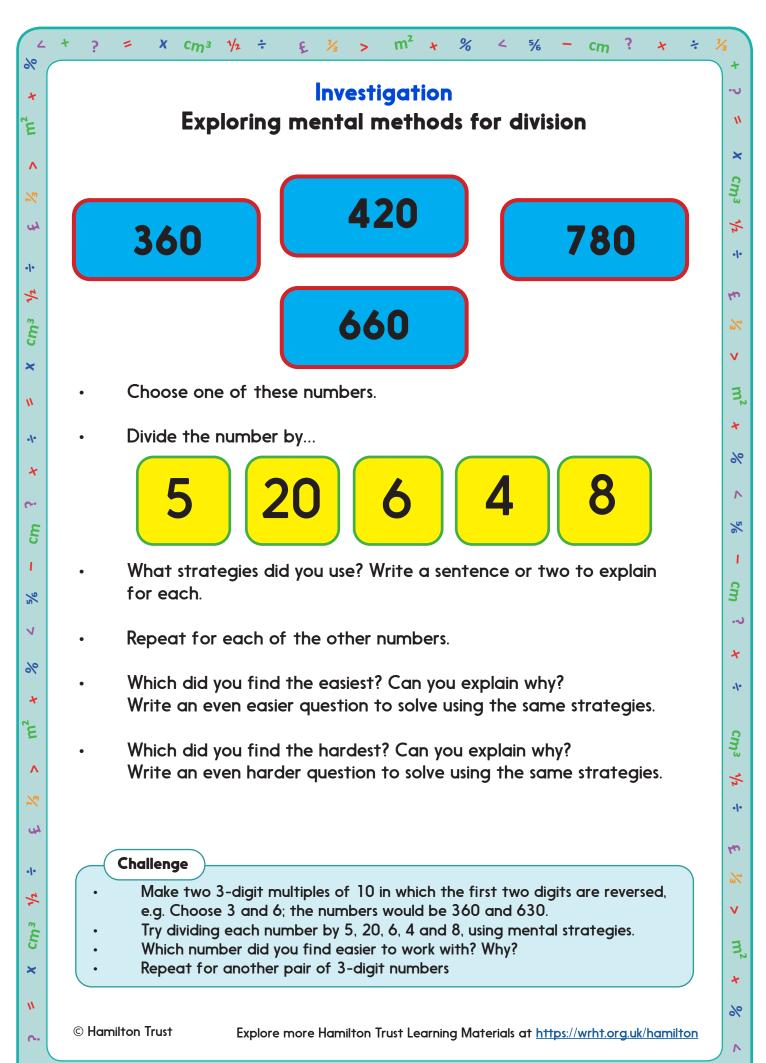
Multiplying 10s and 100s by 1-digit numbers

Section 1

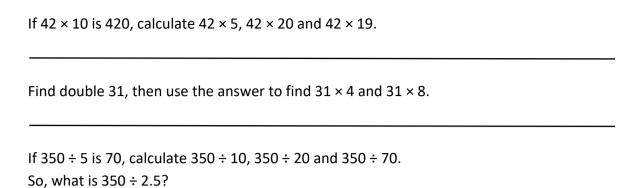
$6 \times 2 = 12$	$6 \times 20 = 120$	$120 \div 6 = 20$
$3 \times 5 = 15$	$3 \times 50 = 150$	$150 \div 3 = 50$
$4 \times 9 = 36$	$4 \times 90 = 360$	$360 \div 4 = 90$
$2 \times 2 = 4$	$2 \times 200 = 400$	$400 \div 2 = 200$
$9 \times 3 = 27$	$9 \times 300 = 2700$	$2700 \div 9 = 300$
$5 \times 4 = 20$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

Section 2

$4 \times 4 = 16$	$4 \times 40 = 160$	$160 \div 4 = 40$
$3 \times 7 = 21$	$3 \times 700 = 2100$	2100 ÷ 3 = 700
$6 \times 8 = 48$	$6 \times 80 = 480$	$480 \div 6 = 80$
$9 \times 6 = 54$	$9 \times 600 = 5400$	5400 ÷ 9 = 600
$7 \times 9 = 63$	$7 \times 900 = 6300$	6300 ÷ 7 = 900
$8 \times 3 = 24$	$8 \times 30 = 240$	$240 \div 8 = 30$



Check your understanding Questions



Fold here to hide answers

Check your understanding Answers

If 42×10 is 420, calculate 42×5 , 42×20 and 42×19 . Answers are 210, 840 and 798 respectively.

Find double 31 then use the answer to find 31×4 and 31×8 . Answers are 62, 124 and 248 respectively.

If $350 \div 5$ is 70, calculate $350 \div 10$, $350 \div 20$ and $350 \div 70$. Answers are 35, 17.5 and 5 respectively. So, what is $350 \div 2.5$? 140.