Week 5, Day 2 Short division

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

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.

OR start by carefully reading through the Learning Reminders.

- 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?

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



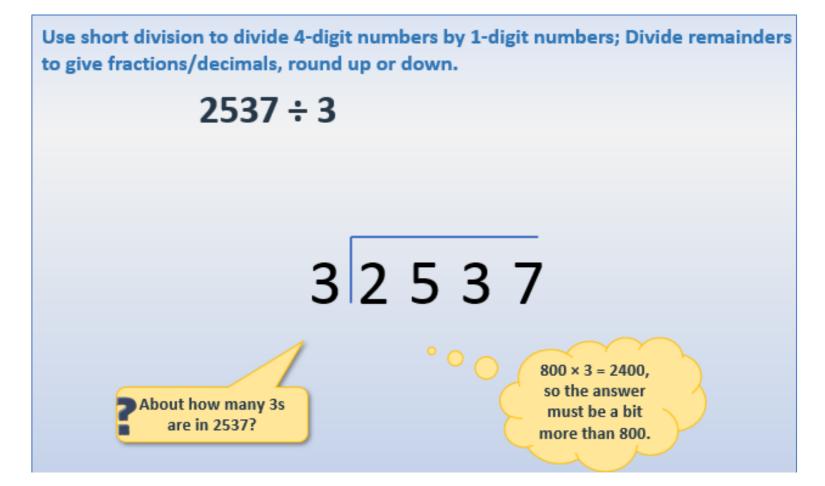
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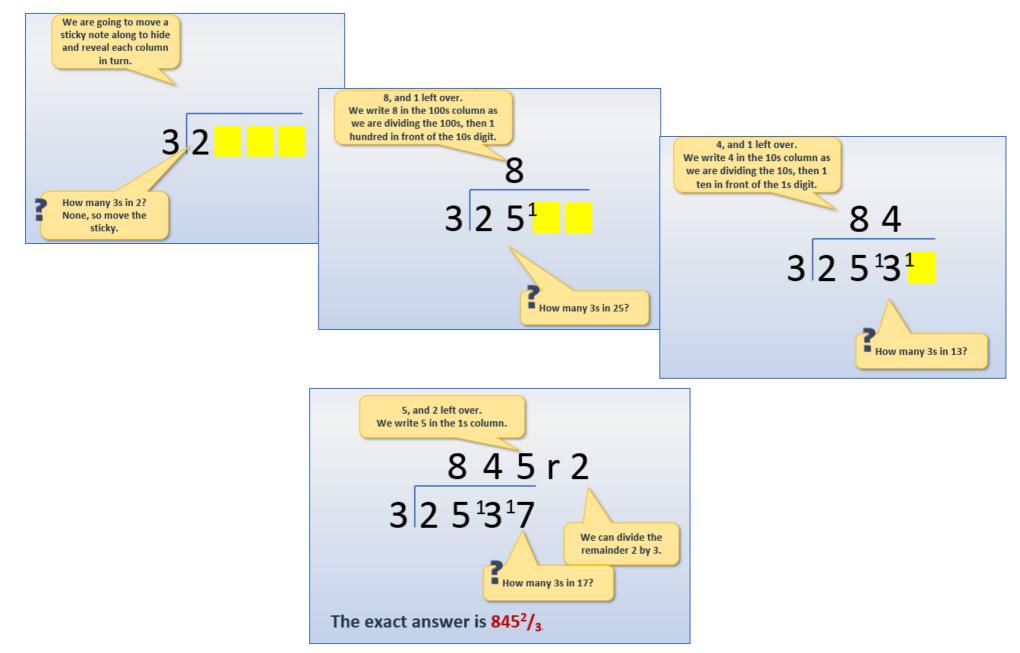


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Learning Reminders

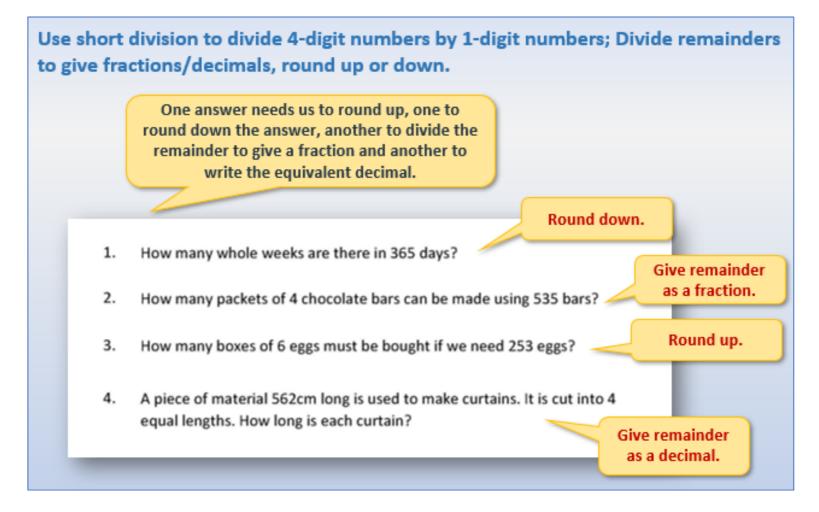


Learning Reminders





Learning Reminders



Practice Sheet Mild Short division Divide any remainders to give fractions. 1. 733 ÷ 3 2. 946 ÷ 6 3. 4783 ÷ 4 6326 ÷ 4 4 5. $3142 \div 4$ 3784 ÷ 5 6. 7. Exactly how many weeks are there in 365 days? 8. How many packs of 4 chocolate bars can be made using 535 bars? 9. How many packs of 6 eggs need to be bought if 253 eggs are needed? 10. If a piece of material measuring 562cm long is divided into 4 equal lengths to make curtains, how long is each length?

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Practice Sheet Hot Short division Divide any remainders to give fractions. 1. 7133 ÷ 3 2. 1946 ÷ 6 3. 3183 ÷ 4 4. 9326 ÷ 7 5. 2442 ÷ 11

- 6. 4752 ÷ 11
- 7. 3784 ÷ 12
- 8. 9524 ÷ 12
- 9. There are 12 months in a year, 365 days. If each month was an equal number of days, exactly how many days would there be in a month? How long would each month be in a leap year of 366 days?
- 10. How many packs of 5 chocolate bars can be made using 1453 bars?
- 11. How many packs of 12 eggs need to be bought if 253 eggs are needed?
- 12. If a piece of material measuring 962cm long is divided into 8 equal lengths to make curtains, how long is each length?

Use multiplication to check three of your answers. What do you need to do with the remainder?

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Practice Sheet Answers Short division (mild) $733 \div 3 = 244 \frac{1}{3}$ 1. 946 ÷ 6 = 157 $\frac{2}{3}$ 2. $4783 \div 4 = 1195 \frac{3}{4}$ 3. $6326 \div 4 = 1581 \frac{1}{2}$ 4. $3142 \div 4 = 785 \frac{1}{2}$ 5. $3784 \div 5 = 756 \frac{4}{5}$ 6. $365 \div 7 = 52\frac{1}{7}$ 7. $535 \div 4 = 133 \frac{3}{4}$ 8. $253 \div 6 = 42\frac{1}{6}43$ packs of eggs must be bought 9. $562 \div 4 = 140 \frac{1}{2} \text{ cm}$ 10.

Short division (hot)

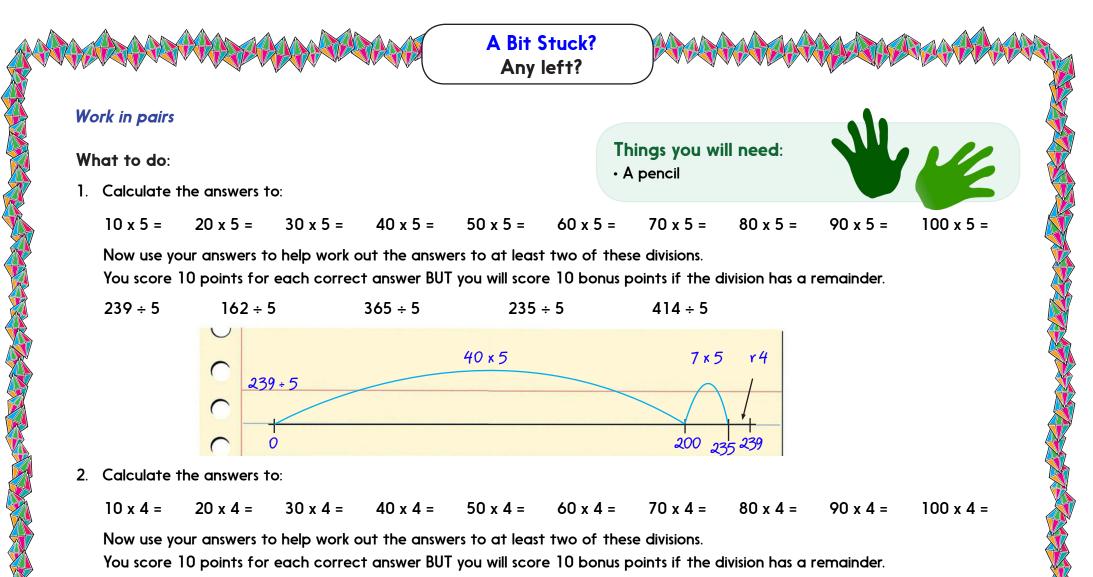
1.	7133 ÷ 3 = 2377 $\frac{2}{3}$
2.	1946 ÷ 6 = 324 $\frac{1}{3}$
3.	$3183 \div 4 = 795 \frac{3}{4}$
4.	9326 ÷ 7 = 1332 ² / ₇
5.	2442 ÷ 11 = 222
6.	4752 ÷ 11 = 432
7.	$3784 \div 12 = 315 \frac{4}{12} (315 \frac{1}{3})$
8.	9524 ÷ 12 = 793
9.	$365 \div 12 = 30\frac{5}{12} 366 \div 12 = 30\frac{6}{12} (30\frac{1}{2})$
10.	1453 ÷ 5 = 290 $\frac{3}{5}$ packs
11.	$253 \div 12 = 21 \frac{1}{12}$ packs 22 packs need to be bought
12.	$962 \div 8 = 120\frac{2}{8}$ cm (120 $\frac{1}{4}$ cm)

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 143 ± 4 249 ± 4 326 ± 4 371 ± 4 208 ± 4

÷ 4 20

S-t-r-e-t-c-h: Use chunking to work out $254 \div 6$ and $378 \div 6$. What multiplications facts could you list to help?

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Learning outcomes:

I can use chunking to divide, using lists of multiples of 10 of the divisor to help.
I am beginning to write my own lists of multiples to help.

Check your understanding Questions

If Sally multiplies a number by 12 she gets 9,432. What was her starting number?

Tom multiplies his number by 9 and gets 7074. What was his starting number?

Calculate 1575 ÷ 6.

- A piece of ribbon 1575cm long is cut into six equal pieces. How long is each piece?
- 1575 eggs are needed to make breakfast at a hotel. The eggs are in boxes of 6. Exactly how many boxes of eggs will be used?
- The school needs 1575 pens. The pens come in packs of 6. How many packs need to be bought?
- There are 1575 oranges. They are put into bags of 6 oranges. How many bags can be packed?

Fold here to hide answers

Check your understanding

Answers

If Sally multiplies a number by 12 she gets 9,432. What was her starting number? 786.

Tom multiplies his number by 9 and gets 7074. What was his starting number? 786. Solved by division – for some children 'multiplies' is a trigger to do just that, rather than the division (as the reverse of multiplication) needed to solve these.

Calculate 1575 ÷ 6.

- A piece of ribbon 1575cm long is cut into six equal pieces. How long is each piece? 262.5cm
- 1575 eggs are needed to make breakfast at a hotel. The eggs are in boxes of 6. Exactly how many boxes of eggs will be used? $262^{1}/_{2}$
- The school needs 1575 pens. The pens come in packs of 6. How many packs need to be bought? 263
- There are 1575 oranges. They are put into bags of 6 oranges. How many bags can be packed? 262