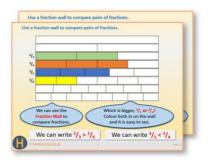
Week 11, Day 4

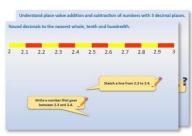
Written multiplication and division

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

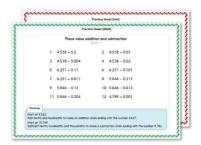
1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



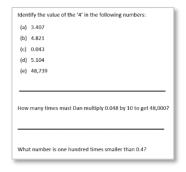
OR start by carefully reading through the **Learning Reminders**.



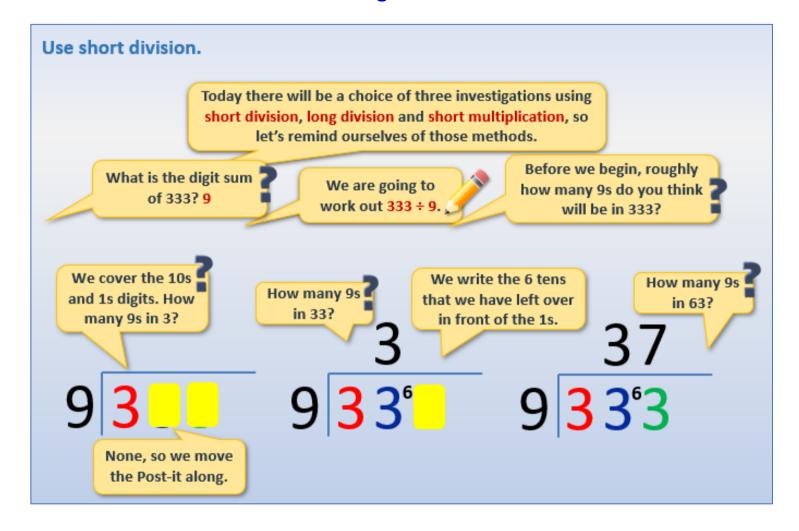
2. Think you've got it? Have a go at the **Investigation** or **Practical Activity**.



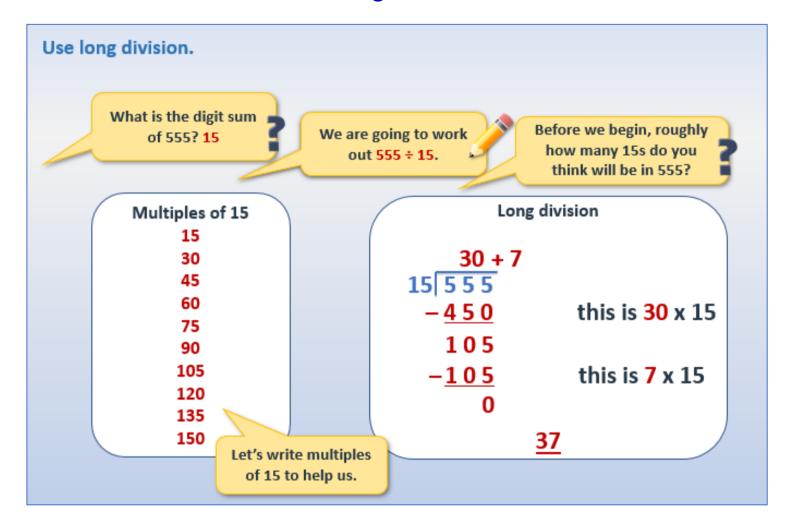
3. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!



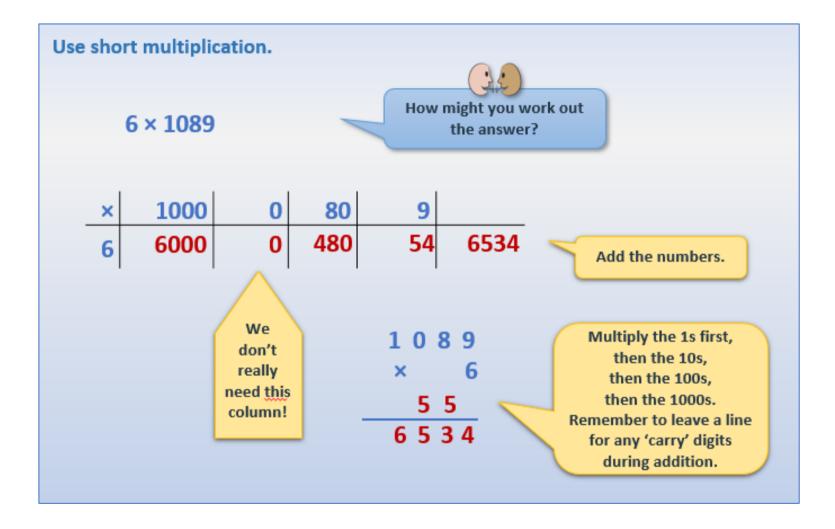
Learning Reminders



Learning Reminders



Learning Reminders



9 bg

6L

65

40

e.
$$6720 \div 10 =$$

g.
$$6720 \div 14 =$$

h.
$$6720 \div 16 =$$

86

82

All your answers should be whole numbers... Why is that?

Super challenge! Find a number which leaves no remainders when divided by 2, 3, 4, 5, 6, 7 and 8. Is this the smallest such number? What other numbers share this property?

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08 6L 8L LL 9L SL TL TL OL 69 89 L9 99 59 pg E9 Z9 I9 09 65 85 LS 95 S5 PS E5 Z5 I

Check your understanding Questions

Maya says that 2578×4 gives the same product as 8×1289 . Is she correct? Demonstrate why/why not.

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?

A farmer is packing eggs in boxes of 6. She has 980 eggs to pack.

- i) How many boxes can the farmer fill using 980 eggs?
- ii) How many boxes will she need to hold all 980 eggs?

Answers on the next page

Check your understanding Answers

Maya says that 2578 x 4 gives the same product as 8×1289 .

Is she correct? Demonstrate why/why not.

Maya is correct, the product of each is 10,312.

Comparing the two questions, 4 has been doubled and 2578 halved, which produces the same product.

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.

A farmer is packing eggs in boxes of 6. She has 980 eggs to pack.

- i) How many boxes can the farmer fill using 980 eggs? 163.
- ii) How many boxes will she need to hold all 980 eggs? 164

Since $980 \div 6 = 163r2$ (or $^2/_6$), the answer to the first problem means rounding down and the second rounding up. A child simply giving 163r2 has solved the division but not answered the problems.