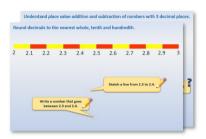
### Week 14, Day 2

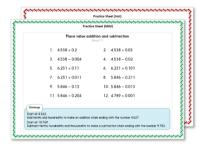
### Divide 2-digit numbers by 1-digit numbers

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.

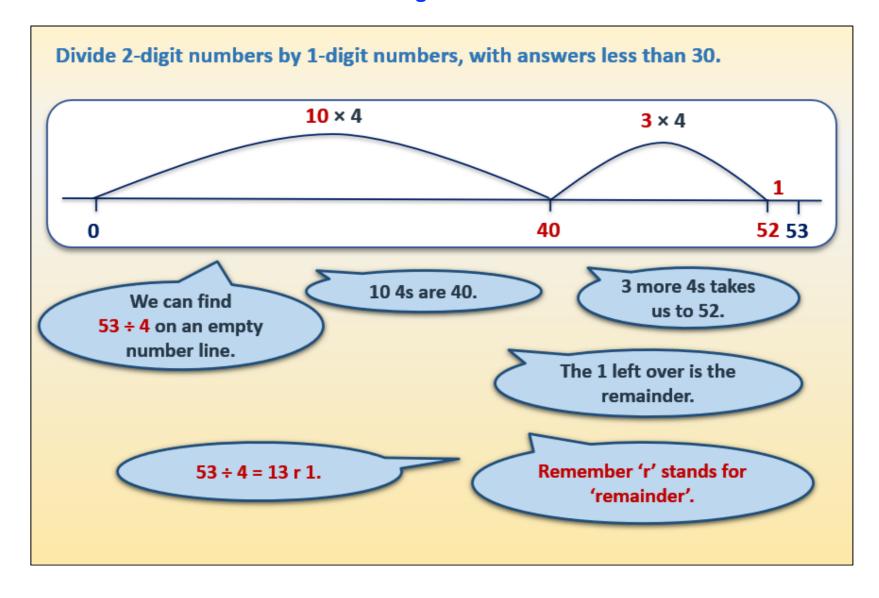


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

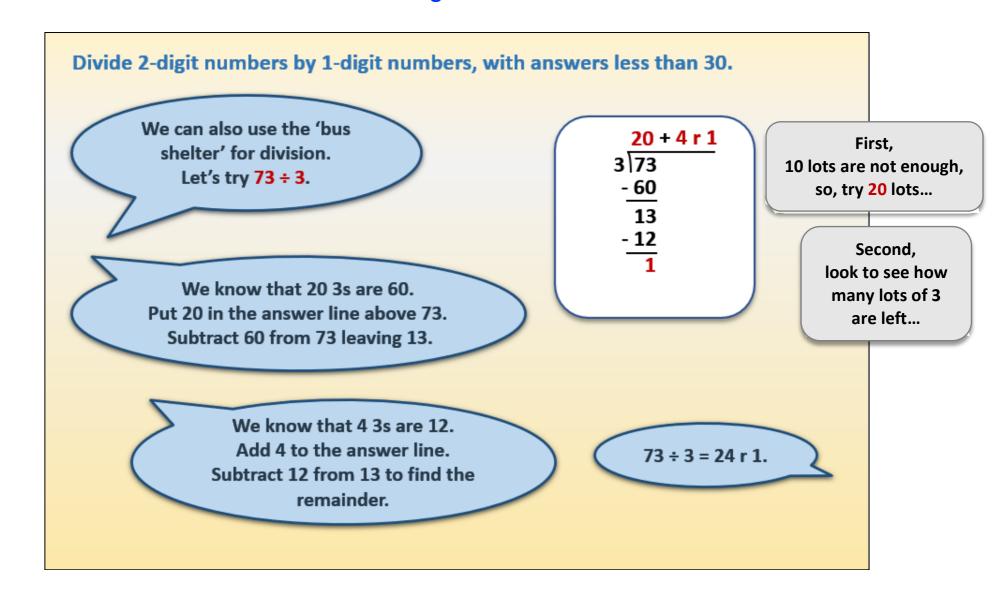


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

### **Learning Reminders**



### **Learning Reminders**



# Practice Sheet Mild Division practice

Solve using 'chunking' on an empty number line or using 'bus shelter'.

3. 
$$56 \div 4$$

## **Practice Sheet Hot**

## Division practice

Solve using 'chunking' on an empty number line or using 'bus shelter'.

1. 
$$72 \div 3$$

7. 
$$136 \div 4$$

8. 
$$175 \div 5$$

3. 
$$92 \div 4$$

10. 
$$288 \div 8$$

12. 
$$266 \div 7$$

### **Practice Sheets Answers**

### Division practice (mild)

6. 
$$72 \div 4$$

$$10 + 8 = 18$$

$$4) \overline{72}$$

$$- \underline{40}$$

$$32$$

$$- \underline{32}$$

8. 
$$104 \div 8$$

$$10 + 3 = 13$$

$$8) 104$$

$$- 80$$

$$24$$

$$- 24$$

$$0$$

### **Practice Sheets Answers**

### Division practice (hot)

6. 
$$105 \div 3$$

$$30 + 5 = 35$$
3)  $105$ 

$$- 90$$

$$15$$

$$- 15$$

$$0$$

11. 
$$288 \div 9$$

$$30 + 2 = 32$$
9)  $288$ 

$$- 270$$

$$18$$

$$- 18$$
0

3. 
$$92 \div 4$$

$$20 + 3 = 23$$

$$4) 92$$

$$-80$$

$$12$$

$$-12$$

$$0$$

8. 
$$175 \div 5$$

$$\underline{30 + 5} = 35$$
5)  $175$ 

$$-\underline{150}$$
25
$$-\underline{25}$$
0

4. 
$$154 \div 7$$

$$20 + 2 = 22$$
7)  $154$ 

$$- \frac{140}{14}$$

$$- \frac{14}{0}$$

9. 
$$204 \div 6$$

$$30 + 4 = 34$$
6)  $204$ 

$$-\frac{180}{24}$$

$$-\frac{24}{0}$$

10. 
$$288 \div 8$$

$$30 + 6 = 36$$

$$8) 288$$

$$- 240$$

$$48$$

$$- 48$$

$$0$$

### A Bit Stuck? Flip-flops

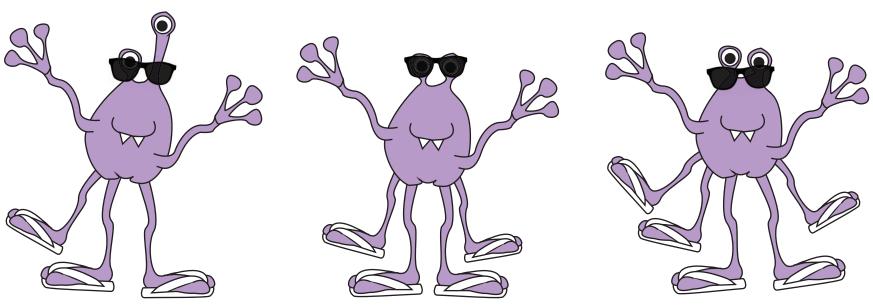
### Work in pairs

What to do:

Things you will need: · A pencil The aliens need flip-flops for the beach.



Some aliens have 3 legs, some have 4 legs and others have 5 legs.



Draw rings round beads on the lines to find out how many aliens can have flip flops.



18 flip flops

$$x 3 = 18$$

18

# A Bit Stuck?

# Flip-flops

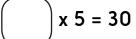


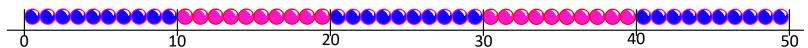
20 flip flops





30 flip flops







24 flip flops

$$x 3 = 24$$

# A Bit Stuck?

### Flip-flops



24 flip flops





45 flip flops

$$x 5 = 45$$



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

Find how many 5s are in 17 and 23.

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#### Learning outcomes:

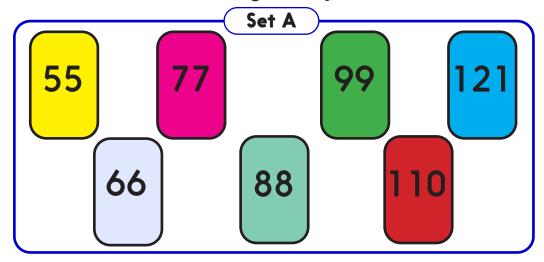
- I can ring groups on a beaded line to divide by 3, 4 and 5 (no remainders).
- · I am beginning to divide by 5, with remainders.

Explore more Hamilton Trust Learning Materials at https://wrht.org.uk/hamilton

# $2 + ? = x c_{m^3} \frac{1}{2} \div \frac{1}{2} \times m^2 \times \% \times \frac{1}{2} - c_{m^3} \cdot \frac{1}{2} \div \frac{1}{2} \times \frac{1}{2$

## **Investigation**

### **Dividing multiples**



٠١٠

3

%

%

4

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٠١٠

%

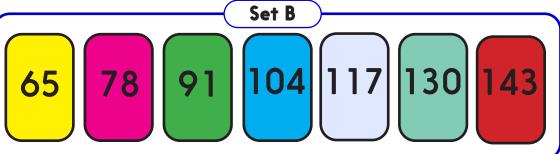
- The numbers on the cards are all multiples of 11.
- Choose a card. Divide the number by 3, 4, 5 or 6.
- Choose a different card. Again divide by 3, 4, 5 or 6.
- Repeat 3 more times. You can use the same number from Set A, but if you do then you must divide by a different number.
- When you have completed 5 division questions, add the 5 remainders.
- The total of the remainders is your score for this round.
- Now try again with 5 more division questions your aim is to gain a higher remainder score than from the first round!

What is a good strategy to gain a higher score?

# Challenge

There are 6 divisions that give you no score at all, can you find them all?

### Now try the Hot Version!



- Play again using these cards in Set B. They are all multiples of 13.
- Do you think that you can get a higher score with this set?

33 ÷ 3, 66 ÷ 3, 88 ÷ 4, 55 ÷ 5, 110 ÷ 5 and 66 ÷ 6 are the 6 divisions that have no remainder.

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4 + ? = x cm³ ½ ÷ £ ½ > m² + % < % - cm ? + ÷ ½