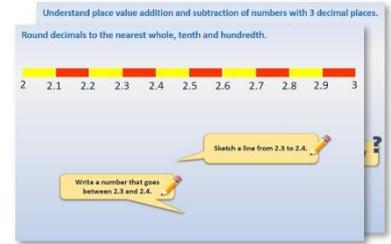


# Year 2: Week 3, Day 3

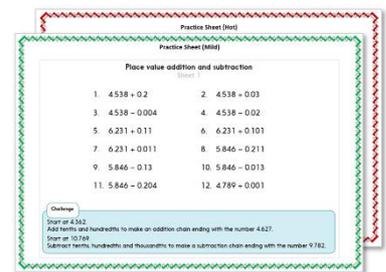
## Multiplication and division

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

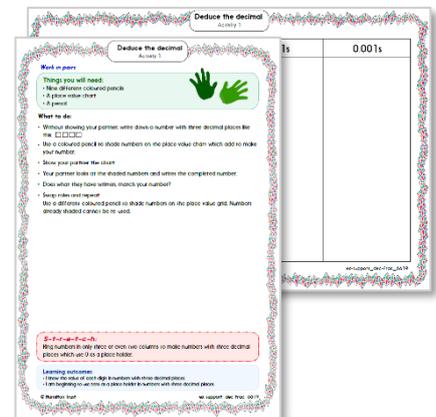
- Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



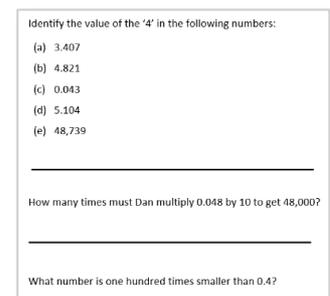
- Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



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

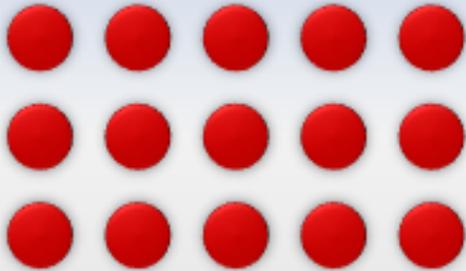


- Have I mastered the topic? A few questions to **Check your understanding**. Fold the page to hide the answers!



## Learning Reminders

Write divisions to match multiplications.



How many counters? How many rows? How many in each row? What number sentence could we write?

$$3 \times 5 = 15$$



How many 5s in 15? We can write a division.

$$15 \div 5 = 3.$$

15 has 3 lots of 5 in it.

How many counters? How many columns? How many in each column? What number sentence could we write?

$$5 \times 3 = 15$$



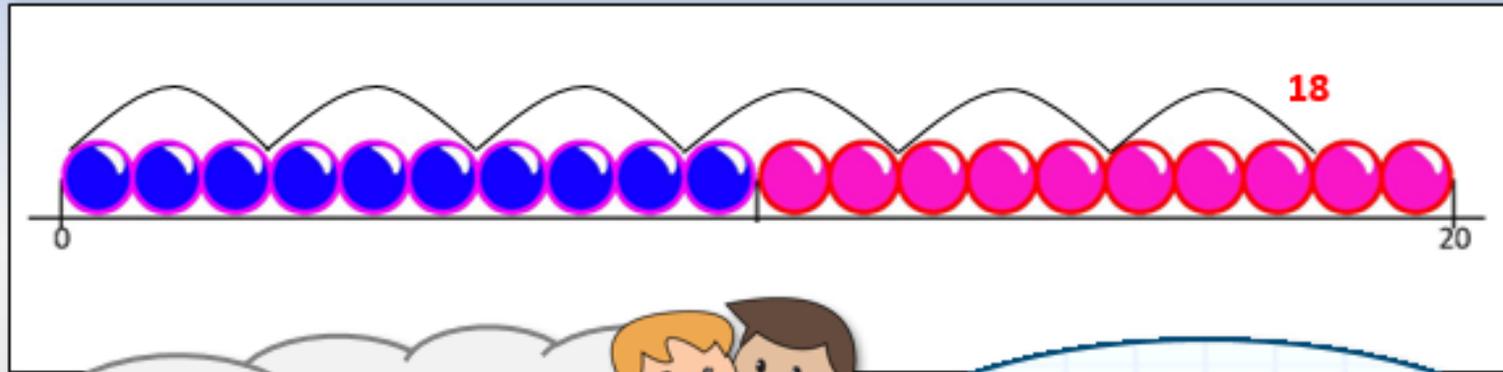
How many 3s in 15?

$$15 \div 3 = 5.$$

15 has 5 lots of 3 in it.

## Learning Reminders

Write multiplications to match divisions.



How can we work out how many lots of 3 give us 18?

Mark 18 on the number line then draw hops of 3 to reach 18.

6 hops.  
 $18 \div 3 = 6.$

What multiplication can we write to match this?

6 hops of 3.  
 $6 \times 3 = 18.$

## Practice Sheet Mild

### Division and multiplication number families

Solve the following calculations. Then, write the division or multiplication that goes with it.

$2 \times 6 = \square$

$16 \div 2 = \square$

$3 \times 7 = \square$

$33 \div 3 = \square$

$\square = 5 \times 6$

$45 \div 5 = \square$

$9 \times 10 = \square$

$\square = 60 \div 10$

#### Challenge

Use the numbers on the cards to make four different number sentences.

8

40

5

## Practice Sheet Hot

### Word problems: division or multiplication?

Solve each problem using either division or multiplication.

1. How many packets of 5 stickers give us 35 stickers?
2. Beau has 7 packets of pencils. Each packet has 3 pencils in. How many pencils does he have?
3. How many baskets of 5 balls give us 25 balls?
4. Each bag of oranges contains 3 pieces of fruit. I have 8 bags. How many oranges do I have?
5. Ben wants 40 stickers. They come in strips of 5. How many strips does he need?
6. Ms Carter has 6 boxes of rubbers. There are 3 rubbers in each box. How many rubbers are there in total?
7. How many boxes of 10 mugs give us 40 mugs?
8. Tilly needs to buy 11 cupcakes, they come in packs of 2. How many packs does she need?

#### Challenge

Make up a word problem for each of these questions:

$$12 \times 2 = 24$$

$$45 \div 5 = 9$$

$$3 \times 10 = 30$$

## Practice Sheets Answers

### Division and multiplication number families (mild)

$$\begin{array}{ll} 2 \times 6 = 12 & 12 \div 6 = 2, 12 \div 2 = 6, 6 \times 2 = 12 \\ 16 \div 2 = 8 & 8 \times 2 = 16, 2 \times 8 = 16, 16 \div 8 = 2 \quad 21 \\ 3 \times 7 = 21 & \div 3 = 7, 21 \div 7 = 3, 7 \times 3 = 21 \quad 11 \times 3 \\ 33 \div 3 = 11 & = 33, 3 \times 11 = 33, 33 \div 11 = 3 \quad 30 \div 5 \\ 5 \times 6 = 30 & = 6, 30 \div 6 = 5, 6 \times 5 = 30 \\ 45 \div 5 = 9 & 9 \times 5 = 45, 5 \times 9 = 45, 45 \div 9 = 5 \quad 90 \\ 9 \times 10 = 90 & \div 10 = 9, 90 \div 9 = 10, 10 \times 9 = 90 \quad 6 \times \\ 60 \div 10 = 6 & 10 = 60, 10 \times 6 = 60, 60 \div 6 = 10 \end{array}$$

### Challenge

$8 \times 5 = 40$

$5 \times 8 = 40$

$40 \div 8 = 5$

$40 \div 5 = 8$

### Word problems: division or multiplication? (hot)

- $35 \div 5 = 7$  7 packs of stickers give 35 stickers.
- $3 \times 7 = 21$  Beau has 21 pencils.
- $25 \div 5 = 5$  5 bags of balls give us 25 balls.
- $8 \times 3 = 24$  There are 24 oranges.
- $40 \div 5 = 8$  Ben needs 8 strips of stickers.
- $6 \times 3 = 18$  There are 18 rubbers.
- $40 \div 10 = 4$  4 boxes of mugs give us 40 mugs.
- How many 2s make 11? Tilly needs to buy 6 packets of cupcakes, because 5 packs will only give her 10 cupcakes in total.

## A Bit Stuck? Ring the fives

Work in pairs

Things you will need:

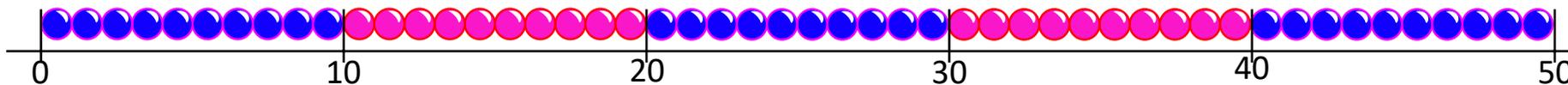
- A pencil



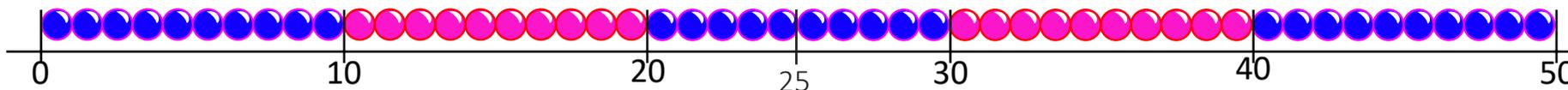
What to do:

Draw rings round groups of 5 beads to work out the answers to these questions:

1. How many 5s are in 20?



2. How many 5s are in 25?



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

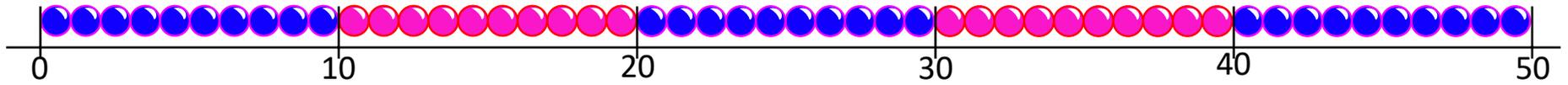
Write multiplications to go with some of your answers.

Learning outcomes:

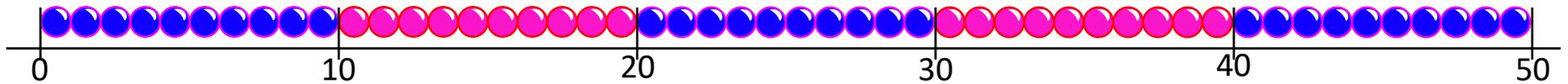
- I can ring groups on a beaded line to find how many 5s are in a number.
- I am beginning to see the link between multiplication and division.

# A Bit Stuck? Ring the fives

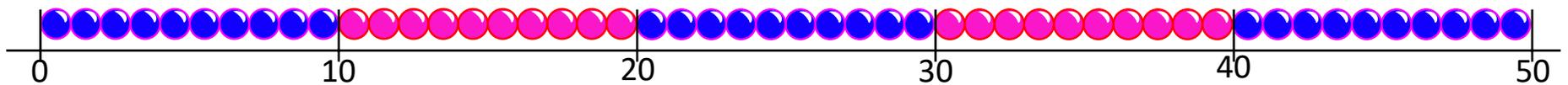
3. How many 5s are in 40?



3. How many 5s are in 50?

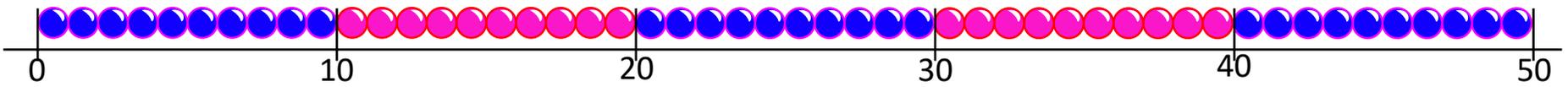
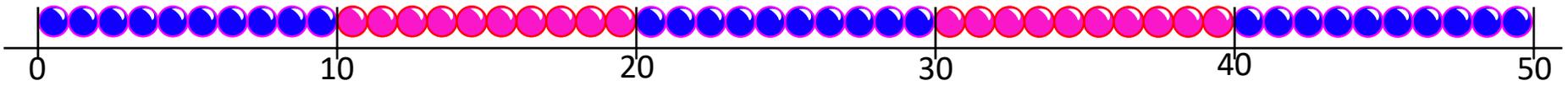
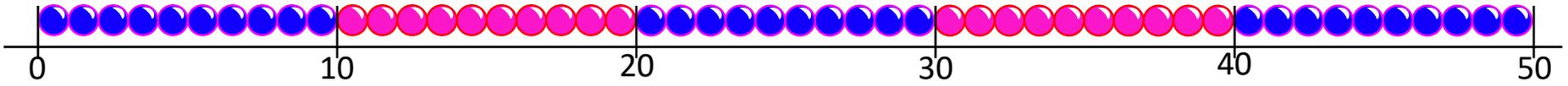
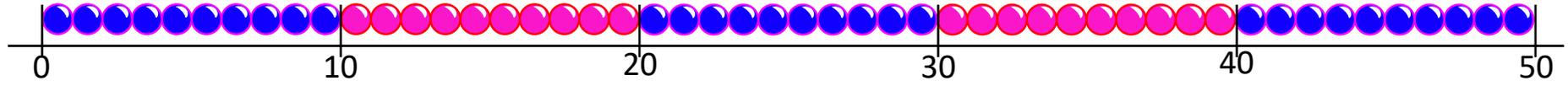


3. How many 5s are in 45?



# A Bit Stuck?

## Ring the fives



## Check your understanding Questions

Rewrite each missing-number multiplication as a division:

$$\square \times 2 = 18$$

$$\square \times 5 = 35$$

$$\square \times 10 = 70$$

Now find the missing numbers.

---

Solve:

(i)  $25 \div 5 = \underline{\quad}$

(ii)  $24 \div 2 = \underline{\quad}$

(iii)  $40 \div 5 = \underline{\quad}$

(iv)  $16 \div 2 = \underline{\quad}$

Fold here to hide answers

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## Check your understanding Answers

Rewrite each multiplication as a division:

$$\square \times 2 = 18 \quad 18 \div 2 = \square \quad (9)$$

$$\square \times 5 = 35 \quad 35 \div 5 = \square \quad (7)$$

$$\square \times 10 = 70 \quad 70 \div 10 = \square \quad (7)$$

Children may just give the answers: 9, 7 and 7 respectively – but it is important that they see that for every multiplication number sentence there are corresponding divisions (and vice versa).

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Solve

(i)  $25 \div 5 = 5$

(ii)  $24 \div 2 = 12$

(iii)  $40 \div 5 = 8$

(iv)  $16 \div 2 = 8$