## Year 2: Week 2, Day 4 Division

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

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

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

## Learning Reminders



## Learning Reminders

Work out division using beaded lines; Understand division as the inverse of multiplication.

Let's try $12 \div 2$. ㅁ $2=12$
I start at the number to be divided then draw hops back along the line in groups of the smaller number until I can't make any more groups.


6 groups of 2.
$12 \div 2=6$

## Practice Sheet Mild <br> Division on beaded lines

$15 \div 5=$

| 0000000000000000000000000000000000000000000000000 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 10 | 20 | 30 | 40 |

$16 \div 2=$

| 0000000000000000000000000000000000000000000000000 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 10 | 20 | 30 | 40 |

$40 \div 10=$

$40 \div 5=$

$45 \div 5=$


## Challenge

Now try to solve these calculations and write a matching multiplication for each:

$$
90 \div 10=\quad 55 \div 5=\quad 24 \div 2=
$$

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## Practice Sheet Hot <br> More mystery numbers

Find the missing numbers.
1.

7. $\square \times 2=16$
2. $10 \div 5=\square$
8. $\square \times 5=25$
3. $\square \times 2=24$
4. $20 \div 2=\square$
9. $30 \div 2=\square$
5. $\square \times 10=60$
10. $\square \times 10=90$
6. $\square \times 2=22$
11. $70 \div 10=\square \div 2$
12. $45 \div 5=18 \div \square$

## Challenge

Make up three more balancing problems like questions 11 and 12 for your partner to solve.

## Practice Sheet Answers

Division on beaded lines (mild)
$15 \div 5=3$
$16 \div 2=8$
$40 \div 10=4$
$40 \div 5=8$
$45 \div 5=9$

## Challenge

$$
\begin{array}{ll}
90 \div 10=9 & 10 \times 9=90 \text { or } 9 \times 10=90 \\
55 \div 5=11 & 11 \times 5=55 \text { or } 5 \times 11=55 \\
24 \div 2=12 & 2 \times 12=24 \text { or } 12 \times 2=24
\end{array}
$$

More mystery numbers (hot)

1. $6 \times 5=30$
2. $10 \div 5=2$
3. $12 \times 2=24$
4. $20 \div 2=10$
5. $6 \times 10=60$
6. $\quad 11 \times 2=22$
7. $8 \times 2=16$
8. $5 \times 5=25$
9. $30 \div 2=15$
10. $9 \times 10=90$
11. $70 \div 10=14 \div 2$
12. $45 \div 5=18 \div 2$


## A Bit Stuck?

 Ring the twosHow many 2 s are in 12 ?


How many 2 s are in 16 ?


How many 2 s are in 18 ?


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 $2 s$ are in a number.
- I am beginning to see the link between multiplication and division.
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## Check your understanding <br> Questions

How many hops of 5 in...
(i)

20?
(ii) 35 ?
(iii) 50 ?

How many 2 s in ..
(i) 16 ?
(ii) 20 ?
(iii) 24?

Explain why $20 \div 5=\square$ can also be written as $\square \times 5=20$.

Write the missing numbers:
x $2=12$
$\square \times 2=20$
x $5=30$
$\square \times 10=60$

## Check your understanding

Answers
How many hops of 5 in...
(i) 20? 4
(ii) 35 ? 7
(iii) 50? 10

How many 2 s in ..
(i) 16 ? 8
(ii) 20? 10
(iii) 24? 12

Explain why $20 \div 5=\square$ can also be written as $\square \times 5=20$.
Each is asking how many groups (or 'lots') of 5 equal 20.

Write the missing numbers:

$$
\begin{aligned}
& 6 \times 2=12 \\
& 10 \times 2=20 \\
& 6 \times 5=30 \\
& 6 \times 10=60
\end{aligned}
$$

Children can count up in $2 \mathrm{~s}, 5$ s or 10 s to confirm the multiplication facts.

