## Week 13, Day 1

Use knowledge of tables \& place value to divide multiples of 10 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. 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

Use knowledge of times tables and place value to divide multiples of 10, e.g. $350 \div 7$.


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Use knowledge of times tables and place value to divide multiples of 10, e.g. $350 \div 7$.


## Practice Sheet Mild <br> Use times tables to divide

Choose a number from the first set to divide by a number from the second set.
Your answer must be a whole number.


How many divisions can you write using times tables facts that you know?

## Challenge

Which of the single-digit numbers is a factor of all of the 3-digit numbers?
How can you be sure without doing every division?

## Practice Sheet Hot <br> Use times tables to divide

Choose a number from the first set to divide by a number from the second set.
Your answer must be whole number.


How many divisions can you write using times tables facts that you know?

## Challenge

1. Which of the single-digit numbers is a factor of all of the 3-digit numbers?

How can you be sure without doing every division?
2. Explain, without doing a calculation, why 9 isn't a factor of 320 .
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## Practice Sheets Answers

Use times tables to divide (mild)

| $240 \div 3=80$ | $240 \div 4=60$ | $240 \div 5=48$ | $240 \div 6=40$ |
| :--- | :--- | :--- | :--- |
| $160 \div 4=40$ | $160 \div 5=32$ |  |  |
| $180 \div 3=60$ | $180 \div 4=45$ | $180 \div 5=36$ | $180 \div 6=30$ |
| $150 \div 3=50$ | $150 \div 5=30$ | $150 \div 6=25$ |  |
| $250 \div 5=50$ |  |  |  |

## Challenge

5 is a factor of all the 3-digit numbers. You can tell as they each end with a zero, and so don't need to do every single calculation.

## Use times tables to divide (hot)

| $270 \div 3=90$ | $160 \div 4=40$ | $160 \div 5=32$ | $270 \div 6=45$ |
| :--- | :--- | :--- | :--- |
| $480 \div 3=160$ | $320 \div 4=80$ | $270 \div 5=54$ | $480 \div 6=80$ |
| $360 \div 3=120$ | $480 \div 4=120$ | $320 \div 5=64$ | $360 \div 6=60$ |
|  | $360 \div 4=90$ | $480 \div 5=96$ |  |
|  |  | $250 \div 5=50$ |  |
| $160 \div 8=20$ | $270 \div 9=30$ | $360 \div 5=72$ |  |
| $320 \div 8=40$ | $360 \div 9=40$ |  |  |
| $480 \div 8=60$ |  |  |  |
| $360 \div 8=45$ |  |  |  |

## Challenge

1. 5 is a factor of all the 3 -digit numbers. You can tell as they each end with a zero, and so don't need to do every single calculation.
2. All multiples of 9 are also multiples of 3.320 is not a multiple of 3.320 cannot be a multiple of 9 .

## Work in pairs

Things you will need:

- A set of 0 to 12 cards
- Ten creepy crawly cards


## What to do:

- Shuffle the 0 to 12 cards and place face down.
- Turn over the top card.

This is the number of creepy crawlies hiding under a stone.

- Take that number of creepy crawly cards.

Use clever counting to work out the number of legs.

- Return the card to the bottom of the pack.

BUT if you knew the answer without using clever counting, keep the card.

- Turn over the next card and repeat.
- Keep playing the game until you don't have many cards left in the pack because you have learned so many facts!


## For example:

You choose the 5 card, so take 5 of the creepy crawly pictures.
You'll see that each of them has 6 legs...
Write a multiplication with a missing number: $5 \times 6=$ $\square$
Do you already know the answer? If not, use 'clever counting' in 6 s to find how many legs there are altogether: 6, 12, 18, 24, 30

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

Use the 0 to 12 cards. See if you can learn eight facts by heart!

## Learning outcomes:

- I can multiply numbers by 6 .
- I am beginning to know some facts for the 6 times tables by heart.



## A Bit Stuck? <br> Creepy crawlies


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