## Week 14, Day 2 <br> 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.

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

## Learning Reminders

Divide 2-digit numbers by 1-digit numbers, with answers less than $\mathbf{3 0}$.


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Divide 2-digit numbers by 1-digit numbers, with answers less than $\mathbf{3 0}$.


## Practice Sheet Mild Division practice

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

1. $65 \div 5$
2. $42 \div 3$
3. $56 \div 4$
4. $78 \div 6$
5. $51 \div 3$
6. $72 \div 4$
7. $96 \div 6$
8. $104 \div 8$

## Practice Sheet Hot <br> Division practice

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

| 1. | $72 \div 3$ | 7. | $136 \div 4$ |
| :--- | :--- | :--- | :--- |
| 2. | $120 \div 5$ | 8. | $175 \div 5$ |
| 3. | $92 \div 4$ | 9. $204 \div 6$ |  |
| 4. | $154 \div 7$ | 10. $288 \div 8$ |  |
| 5. | $138 \div 6$ | 11. $288 \div 9$ |  |
| 6. | $105 \div 3$ | 12. $266 \div 7$ |  |

## Practice Sheets Answers

Division practice (mild)

1. $65 \div 5$

$$
\begin{aligned}
& \frac{10+3}{5 \longdiv { 6 5 }}=13 \\
& -\frac{50}{15} \\
& -\frac{15}{0}
\end{aligned}
$$

2. $42 \div 3$

$$
\begin{aligned}
& \frac{10+4}{3 \longdiv { 4 2 }}=14 \\
& -\frac{30}{12} \\
& -\frac{12}{0}
\end{aligned}
$$

3. $56 \div 4$

$$
\begin{aligned}
& \frac{10+4}{5!}=14 \\
& -\frac{40}{16} \\
& -\frac{16}{0}
\end{aligned}
$$

4. $78 \div 6$

$$
\begin{aligned}
& \frac{10+3}{6)}=13 \\
& -\frac{60}{18} \\
& -\frac{18}{0}
\end{aligned}
$$

5. $51 \div 3$

$$
\begin{aligned}
& \frac{10+7}{3 \longdiv { 5 1 }}=17 \\
& -\frac{30}{21} \\
& -\frac{21}{0}
\end{aligned}
$$

6. $72 \div 4$

$$
\begin{aligned}
& \frac{10+8}{4 \longdiv { 7 2 }}=18 \\
& -\frac{40}{32} \\
& -\frac{32}{0}
\end{aligned}
$$

7. $96 \div 6$

$$
\begin{aligned}
& \frac{10+6}{6196}=16 \\
& -\frac{60}{36} \\
& -\frac{36}{0}
\end{aligned}
$$

8. $104 \div 8$
8) $\frac{10+3}{104}=13$
$-\frac{80}{24}$
$-\frac{24}{0}$

## Practice Sheets Answers

Division practice (hot)

1. $72 \div 3$

$$
\begin{aligned}
& \frac{20+4}{72}=24 \\
& -\frac{60}{12} \\
& -\frac{12}{0}
\end{aligned}
$$

2. $120 \div 5$

$$
\begin{aligned}
& \frac{20+4}{120}=24 \\
& -\frac{100}{20} \\
& -\frac{20}{0}
\end{aligned}
$$

3. $92 \div 4$

$$
\begin{aligned}
& \frac{20+3}{4)}=23 \\
& -\frac{80}{12} \\
& -\frac{12}{0}
\end{aligned}
$$

4. $154 \div 7$

$$
\begin{aligned}
& \text { 7) } \frac{20+2}{154}=22 \\
& -\frac{140}{14} \\
& -\frac{14}{0}
\end{aligned}
$$

5. $138 \div 6$

$$
\begin{aligned}
& \frac{20+3}{138}=23 \\
& -\frac{120}{18} \\
& -\frac{18}{0}
\end{aligned}
$$

6. $105 \div 3$
3) $\frac{30+5}{105}=35$
$-\frac{90}{15}$
$-\frac{15}{0}$
7. $136 \div 4$
4) $\frac{30+4}{136}=34$

- $\frac{120}{16}$
$-\frac{16}{0}$

8. $175 \div 5$

$$
\begin{aligned}
& \frac{30+5}{5)}=35 \\
& -\frac{150}{25} \\
& -\frac{25}{0}
\end{aligned}
$$

9. $204 \div 6$
6) $\frac{30+4}{204}=34$

- $\frac{180}{24}$
- $\frac{24}{0}$

10. $288 \div 8$
8) $\frac{30+6}{288}=36$

- $\frac{240}{48}$
- $\frac{48}{0}$





## Investigation Dividing multiples



- 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?

