

Copy these wheels into your book or write them out as mixed calculations and answer them. You could even time yourself to see how quickly you can answer them.

A circular multiplication wheel with a central circle containing **3x**. The inner ring contains the numbers 1 through 12. The outer ring is blank for writing answers. A red **9** is written at the top position, and a red **30** is written at the bottom position.

A circular multiplication wheel with a central circle containing **8x**. The inner ring contains the numbers 1 through 12. The outer ring is blank for writing answers.

A circular multiplication wheel with a central circle containing **4x**. The inner ring contains the numbers 1 through 12. The outer ring is blank for writing answers.

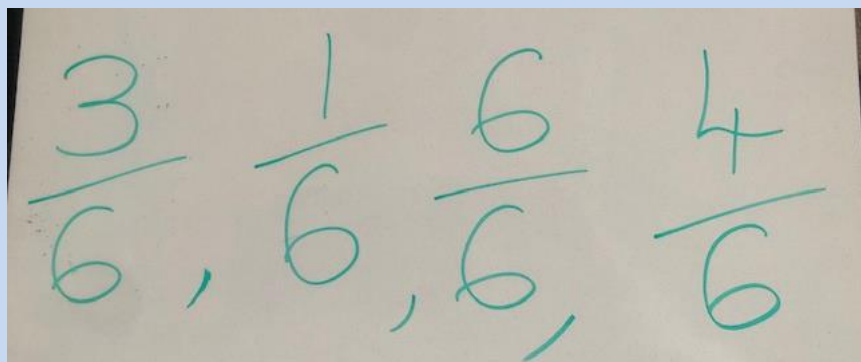
A circular multiplication wheel with a central circle containing **11x**. The inner ring contains the numbers 1 through 12. The outer ring is blank for writing answers.

A circular multiplication wheel with a central circle containing **5x**. The inner ring contains the numbers 1 through 12. The outer ring is blank for writing answers.

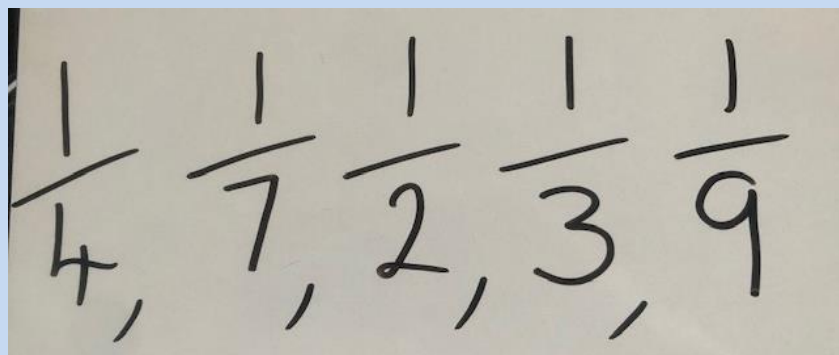
Starter (quick revision):

Ordering Fractions

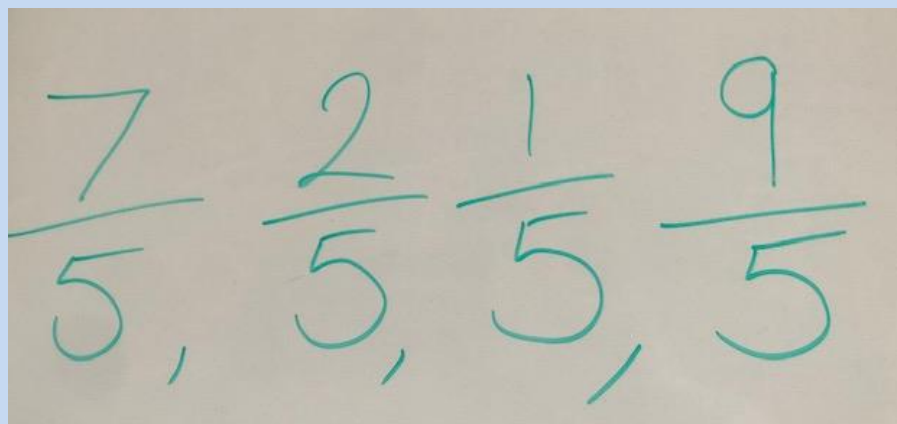
Write these fractions out in your book ordering them from smallest to largest.



Handwritten fractions: $\frac{3}{6}, \frac{1}{6}, \frac{6}{6}, \frac{4}{6}$



Handwritten fractions: $\frac{1}{4}, \frac{1}{7}, \frac{1}{2}, \frac{1}{3}, \frac{1}{9}$



Handwritten fractions: $\frac{7}{5}, \frac{2}{5}, \frac{1}{5}, \frac{9}{5}$

Take a few minutes to mark your work from yesterday. If you have made any mistakes see if you can go back and see where you have gone wrong.

1.219

2.350

3.853

4.287

5.29

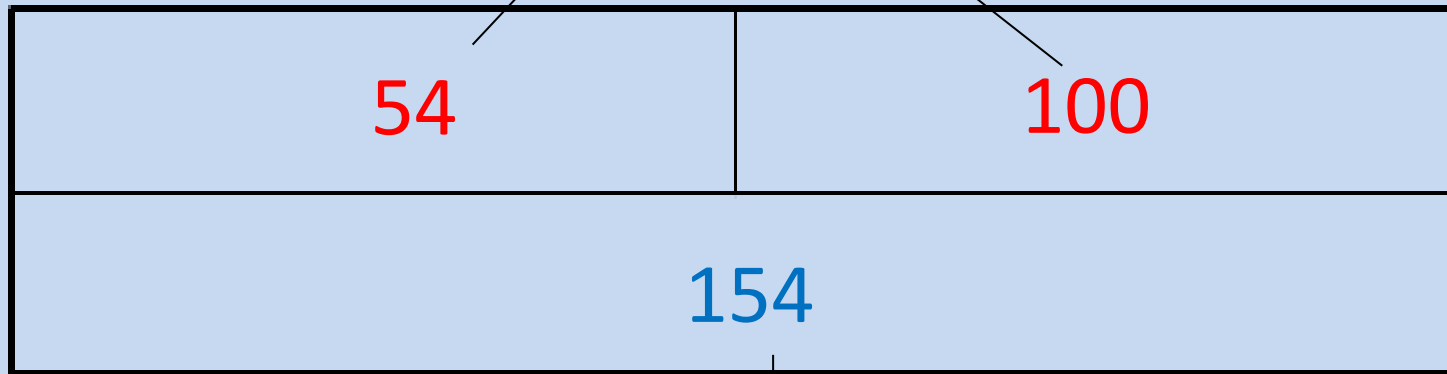
6.294

Yesterday, we looked at missing number addition calculations and used the bar model to represent the numbers to help find the missing number.

Today, we are going to look
at missing number
subtraction calculations
using the bar model to help.

A bar model is a good way to represent a calculation. It shows that when the two parts are added together it makes the whole. Yesterday we noticed the 'whole' is usually at the end of the calculation (on the other side of the =).

Parts



This bar model could show:

$$54 + 100 = 154$$

$$100 + 54 = 154$$

$$154 - 54 = 100$$

$$154 - 100 = 54$$

Whole

You could also write like this,

$$154 = 54 + 100$$

$$54 = 100 - 54$$

For subtraction calculations you would usually find the 'whole' (the bigger number) at the start of the calculation.

$$257 - 100 = 157$$

100	157
257	

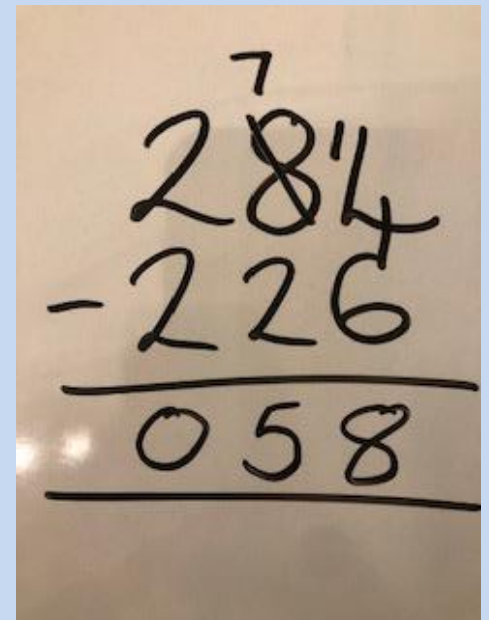
$$284 - 226 = 58$$

$$749 - 264 = 485$$

$$967 - 25 = 942$$

For all these calculations you have the whole and you take the part away you have, to find the other part (the answer).

226	58
284	



Handwritten subtraction problem showing the calculation of 284 minus 226. The number 284 is written with a small '7' above the '8'. The number 226 is written below it with a minus sign to its left. A horizontal line is drawn under 226. Below the line, the result 058 is written. A second horizontal line is drawn under 058.

$$648 - \underline{\quad} = 156$$

$$849 - \underline{\quad} = 200$$

$$875 - \underline{\quad} = 729$$

To find the missing part you need to take the part you have away from the whole!

For all these calculations you have a part missing and are given the whole.

156	?
648	

Just like we did yesterday!

5648
- 156

492

To double check your answer is correct you can use the inverse operation as shown bellow.

Don't forget to use column method from Monday's lesson to help you work out your answers. Look back at lesson if you need to!

The image shows handwritten mathematical work on a piece of paper. At the top, the equation $648 - \underline{\quad} = 156$ is written. Below this, the subtraction $648 - 156$ is performed using the column method. The number 648 is written above 156, with a horizontal line underneath. A diagonal line is drawn through the 648, and a small '5' is written above the 4. The result 492 is written below the line. To the right, the addition $492 + 156$ is performed to verify the result. The numbers 492 and 156 are stacked vertically with a horizontal line underneath, and the result 648 is written below the line.

$$648 - \underline{\quad} = 156$$
$$\begin{array}{r} 5 \\ \cancel{6}48 \\ - 156 \\ \hline 492 \end{array}$$
$$\begin{array}{r} 492 \\ + 156 \\ \hline 648 \\ \hline \end{array}$$

Answer these questions in your book. Draw a bar model for each question to help you and show your working out.

$$1. 937 - \underline{\quad} = 456$$

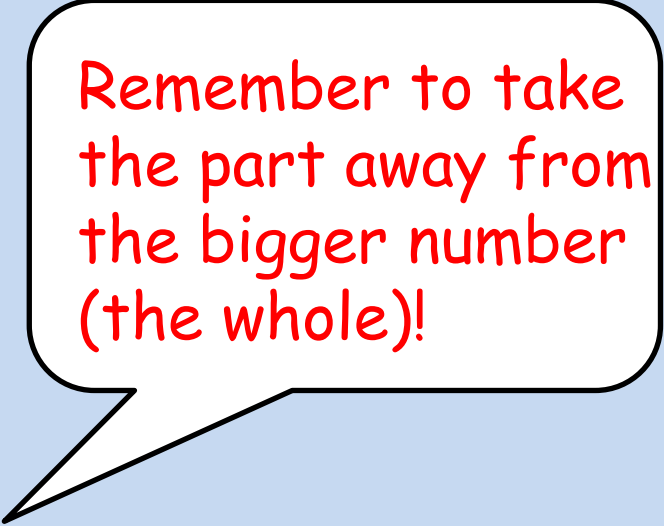
$$2. 489 - \underline{\quad} = 256$$

$$3. 695 - 126 = \underline{\quad}$$

$$4. 732 - \underline{\quad} = 578$$

$$5. 796 - 342 = \underline{\quad}$$

$$6. 636 - \underline{\quad} = 479$$



Remember to take the part away from the bigger number (the whole)!

Answers will follow tomorrow.

Challenge:

Can you use your bar model to work out these missing number problems?

_____ - 157 = 238

_____ - 892 = 140

_____ - 527 = 230

_____ - 623 = 263

