Class 11 Maths

Monday

Mental Arithmetic:

It is so important that you are practising your times tables everyday and I know that some of you may not have been doing this. The quick recall and knowledge of your times tables helps you with lots of other areas of maths and is important in order to help you pass the Year 4 times tables test. I am asking that today you focus on your times tables practise and I would like you all to at least 20 minutes on TTRs. It is up to you what you choose to go on, but I would like you to complete another **soundcheck** today so that I can see how you are doing. Your login is the same as the one you use in school.

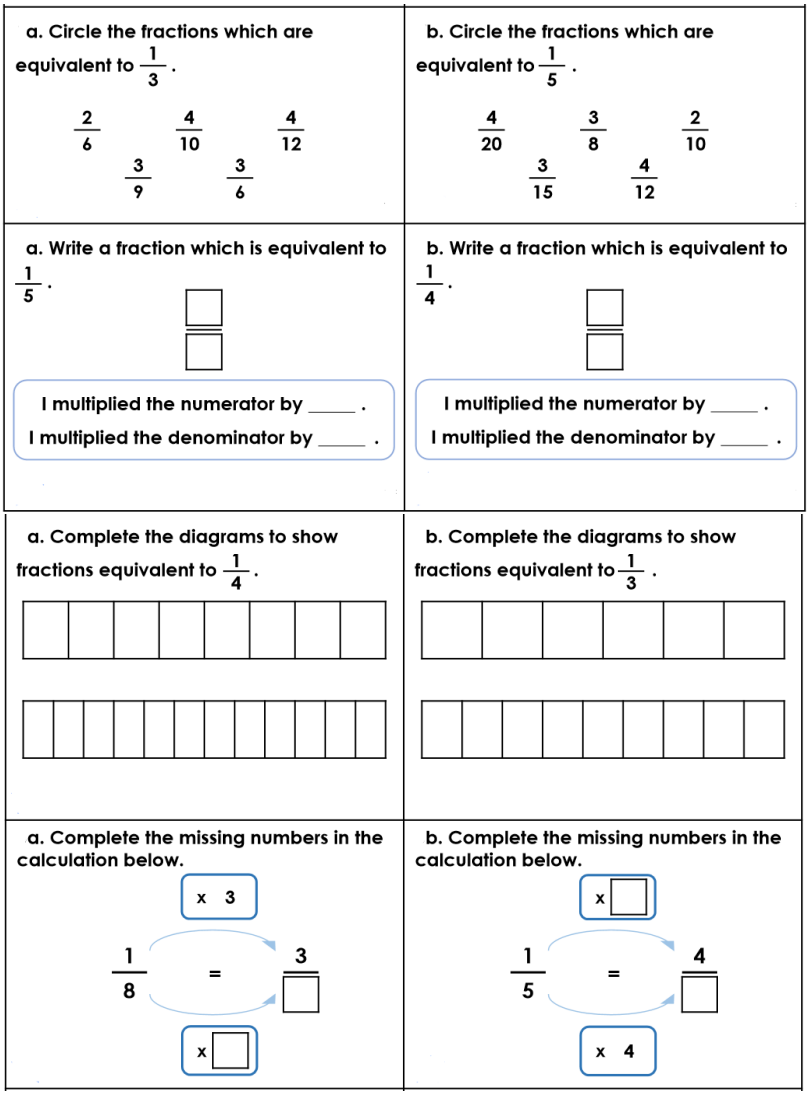
https://play.ttrockstars.com/auth

Spend the rest of your maths time today practising adding one-digit numbers quickly. You might want to get someone to write down some simple additions on a piece of paper or you could make up your own. Then, when you are ready, set a timer and see how quickly you can answer these questions. If you keep doing this, you should find that your time is improving. This will help you with the area of maths you are looking at over the next few days this week.

Tuesday

Recapping equivalent fractions

Remind yourself of your work which you completed last week by answering the following questions.



Wednesday

Fluency

Focus: to add fractions with the same denominator

Remember, adding fractions with the same denominator is easy. The bottom number (denominator) stays the same and you simply add the top numbers (numerator) together to get your answer as a fraction. Have a go at the following questions:

1) $\frac{4}{6} + \frac{1}{6} =$

2) $\frac{2}{9} + \frac{3}{9} =$

3) $\frac{4}{8} + \frac{7}{8} =$

4) $\frac{10}{12} + \frac{6}{12} =$

5) $\frac{9}{10} + \frac{5}{10} =$

6) $\frac{1}{4} + \frac{2}{4} =$

7) $\frac{2}{5} + \frac{4}{5} =$

8) $\frac{6}{7} + \frac{3}{7} =$

9) $\frac{8}{11} + \frac{9}{11} =$

10) $\frac{1}{2} + \frac{1}{2} =$

Challenge:

Remember that some of these fractions have specific names. If you can remember what any of the following terms mean, then remember to use them to show that you know what these types of fractions are.

Can you identify any **unit fractions**? Are there any **improper** (top heavy) fractions? Can you find any **equivalent fractions**? Can you simplify to their **lowest form**? Can you convert them into **mixed numbers**?

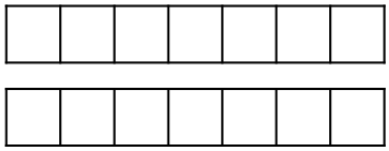
Thursday

Varied Fluency

Focus: to add fractions with the same denominator

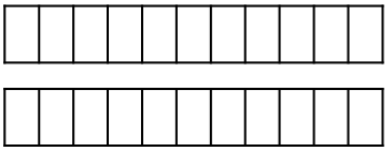
a. Shade the model to complete the following calculation.

$\frac{4}{7} + \frac{6}{7} = \frac{\square}{\square}$



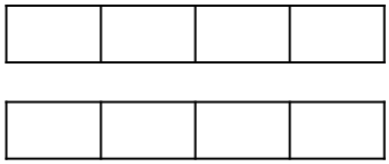
b. Shade the model to complete the following calculation.

$\frac{6}{11} + \frac{9}{11} = \frac{\square}{\square}$



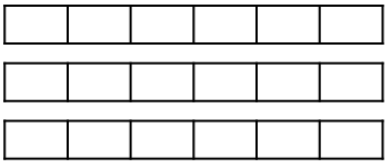
a. Complete the calculation below.

$\frac{3}{4} + \frac{2}{4} + \frac{1}{4} = \frac{\square}{\square}$



b. Complete the calculation below.

$\frac{5}{6} + \frac{4}{6} + \frac{7}{6} = \frac{\square}{\square}$



Extension:

1. Match the calculations to the correct answers.

A.	$\frac{4}{8} + \frac{1}{8} + \frac{5}{8}$	$\frac{9}{8}$
B.	$\frac{6}{8} + \frac{3}{8} + \frac{4}{8} + \frac{2}{8}$	$\frac{10}{8}$
C.	$\frac{4}{8} + \frac{2}{8} + \frac{3}{8}$	$\frac{15}{8}$
D.	$\frac{5}{8} + \frac{3}{8} + \frac{6}{8}$	$\frac{14}{8}$

Challenge: don't forget, you can find the equivalent fractions for these (in their simplest form- diving the top and bottom by the same number) or write them in mixed numbers.

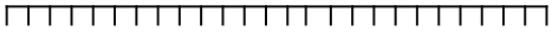
Friday

Varied Fluency

Focus: to add fractions with the same denominator

a. Tick the correct answer. Use the empty number line to help you.

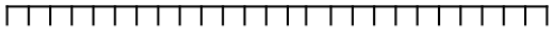
$$\frac{8}{12} + \frac{7}{12} + \frac{9}{12} =$$



$\frac{24}{36}$ $\frac{24}{12}$ $\frac{26}{12}$

b. Tick the correct answer. Use the empty number line to help you.

$$\frac{11}{9} + \frac{5}{9} + \frac{7}{9} =$$



$\frac{24}{9}$ $\frac{23}{27}$ $\frac{23}{9}$

a. Fill in the missing numbers below.

A. $\frac{7}{\square} + \frac{6}{7} + \frac{2}{\square} = \frac{\square}{\square} + \frac{5}{7} = \frac{\square}{\square}$

B. $\frac{\square}{\square} + \frac{12}{15} + \frac{11}{\square} = \frac{17}{15} + \frac{\square}{\square} = \frac{32}{\square}$

b. Fill in the missing numbers below.

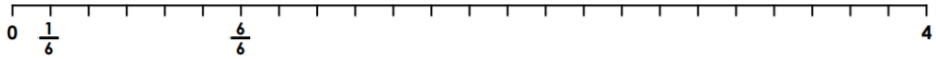
A. $\frac{16}{18} + \frac{7}{\square} + \frac{2}{\square} = \frac{\square}{\square} + \frac{11}{18} = \frac{\square}{\square}$

B. $\frac{\square}{\square} + \frac{11}{\square} + \frac{6}{\square} = \frac{17}{\square} + \frac{\square}{\square} = \frac{29}{8}$

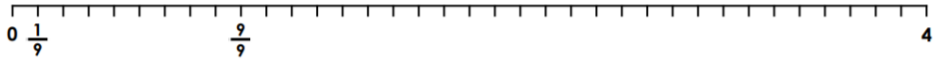
Remember: the '=' sign does not always mean you need to find the answer. In this case, it means that all calculations need to be the same as each other.

Extension:

Use the number lines to complete the calculations below.



A. $\frac{5}{6} + \frac{3}{\square} + \frac{7}{\square} + \frac{4}{6} = \frac{\square}{\square}$



B. $\frac{\square}{\square} + \frac{2}{\square} + \frac{11}{\square} + \frac{6}{\square} = \frac{23}{9}$