Maths - Week Beginning 4th May 2020

Year 6

This week's tasks are on the White Rose Home Learning page Summer Week 3:

https://whiterosemaths.com/homelearning/year-6/

Start with the lesson videos first, then complete the tasks. In the attachments below is an annotated version of the tasks for Monday - Thursday with extra hints, explanations and websites to go to if you need extra help.

If you need a word version of this document email the school office and we will send it to you. This may help those of you who have had trouble printing from the White Rose website. However, you don't need to print the worksheets - you can just record your working out and answers on plain or squared paper - it's up to you.

Do work hard to understand this as it will really help you in Year 7 at your secondary schools; this topic is revision of learning we all covered in class earlier in the year - but do ask for help if you're stuck.

Friday: this is the day for TTRockstars, finishing work and sending us photos.

If you would like to do some arithmetic, this is a good site: https://myminimaths.co.uk/year-6-arithmetic-practice-papers/

Year 5

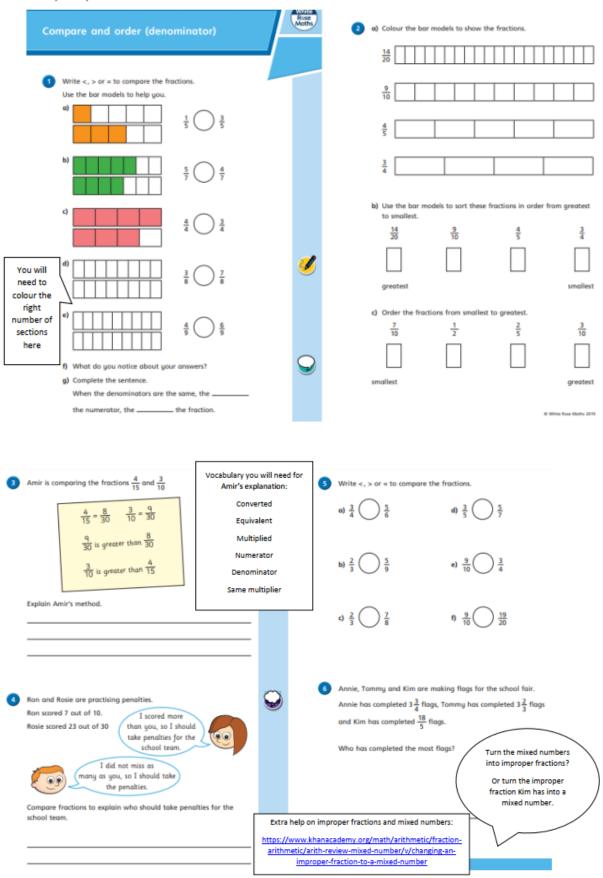
This week's maths will focus mainly on multiplication and division. You would have seen all of this before but it gives you an opportunity to consolidate some of your learning and practice skills you may not have used for a little while. The gentleman will use the phrase 'area model' but we know this as the 'grid method' - don't let this put you off or worry you. Make sure you watch the videos first even though this is revision. You can find them here: https://whiterosemaths.com/homelearning/year-5/.

We are on week 3. As always on a Friday, please spend your time practising your times tables. Thank you to those of you that have challenged me in the last week.

Please complete Corbett Maths each day too to keep your mental arithmetic strong. It only takes 5 minutes remember. Start with the silver level and if you get full marks in the allocated 5 minutes then have a look at the gold level. You can find the daily mental arithmetic here: https://corbettmathsprimary.com/5-a-day/

Have fun!

Other useful websites: $\label{lem:https://www.khanacademy.org/math/arithmetic/fraction-arithmetic/arith-review-visualizing-equiv-fract/v/equivalent-amount-of-pizza$ Year 6 Summer Week 3 Fractions Check on the https://www.theschoolrun.com/what-are-equivalent-fractions-and-simplifying-fractions Monday May 4th fraction wall - is 7/10 exactly the same size as any 2 a) Use a fraction wall to explain why $\frac{7}{10}$ does not simplify Simplify fractions other set of fractions on their strips? b) Find three more fractions on the fraction wall that cannot be simplified. REMEMBER our work on Mo, Eva and Ron are trying to simplify 5/20 simplifying fractions - think about factors and remember I can't simplify "What you do to the top, you must do to the bottom". 0.0 is odd and the other is even. Mo I can't simplify Top = this because only one r numerator Bottom = Eva denominator I can simplify any fraction. c) $\frac{6}{8}$ = Do you fully agree, partly agree or completely disagree with d) $\frac{4}{8}$ = Talk to a partner. See how 4/6 is exactly the same size as 2/3? That's because they are EQUIVALENT. (4) a) Draw lines on the bar model to show that $\frac{9}{12}$ is equal to $\frac{3}{4}$ Write 3 fractions that simplify to ³/₅ Teddy and Dora are both simplifying 30/42 Teddy $\frac{30}{42} = \frac{15}{21} = \frac{5}{7}$ $\frac{30}{42} = \frac{5}{7}$ a) How do you think Dora was able to simplify the fraction in b) Simplify these fractions in one step. Think about prime numbers - numbers that can only be divided by Simplify the fractions. themselves and 1. e.g. is a prime number. 2,3,5,7,11,13,17,19.... is a multiple of 10 The fraction can be simplified. What could each number be? Explain your reasoning. Describe and explain any patterns that you noticed.



What common denominator can you use to add the fractions? Add and subtract fractions (2) a) $\frac{2}{5} + \frac{1}{2}$ Common denominator b) $\frac{2}{3} + \frac{4}{5}$ Common denominator 1 Amir is using fraction strips to work out $\frac{2}{3} + \frac{1}{4}$ Common denominator d) $\frac{7}{9} - \frac{1}{6}$ e) $\frac{11}{15} + \frac{3}{10}$ Common denominator Amir says he needs to find a common denominator. a) Complete Amir's method. Ron and Eva are working out $\frac{1}{4} + \frac{5}{6}$ Ron's method Eva's method $\frac{1}{4} + \frac{5}{6} = \frac{3}{12} + \frac{10}{12} = \frac{13}{12}$ $\frac{1}{4} + \frac{5}{6} = \frac{6}{24} + \frac{20}{24} = \frac{26}{24}$ a) What is the same about Ron's and Eva's methods? $\frac{2}{3} + \frac{1}{4} = \frac{1}{12} + \frac{1}{12} = \frac{1}{12}$ b) What is different about their methods? b) Show the addition on the fraction strip. c) Which method do you prefer? Why? c) Could you have used a different denominator? Complete the calculations. Complete the additions. Remember to find a Give your answers as mixed numbers and as improper fractions. common multiple for both denominators. Try multiplying them by each other d) e.g. a) 5 x 4 = 20 What patterns do you notice? Mo is drawing jumps on a number line. The jumps are the same size. This is asking "How much Look at these additions bigger is one third than one fifth?" a) What is the size of the jump? a) When does this pattern first give an answer greater than 2? b) What is the value of A? b) Do you think the pattern will ever give an answer greater than 100? Complete the bar model. Question 6 is asking you to add all the fractions to find the value of the top bar. You will need to find A COMMON MULTIPLE of 18, 6

Mixed addition and subtraction

Work out the calculations.

a)
$$\frac{2}{5} + \frac{3}{4} =$$

b)
$$2\frac{1}{4} - \frac{2}{3} =$$

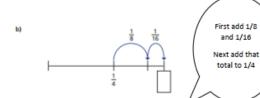
c)
$$3\frac{7}{10} - 2\frac{1}{4} =$$

Complete the calculation.

$$\frac{5}{6} + 1\frac{2}{9} - \frac{1}{2} =$$



asking you to subtract 3 and one Work out the missing fractions. third from 10.



Complete the calculations.

a)
$$\frac{2}{5} + \frac{1}{5} +$$
 = 1

b)
$$\frac{2}{5} + \frac{1}{5} + \boxed{ = 1\frac{1}{2}}$$

c)
$$\frac{2}{5} + \frac{1}{5} + \boxed{ } = \frac{4}{3}$$

d)
$$\frac{4}{5} = -\frac{4}{5}$$

Extra support:

Question 3 is

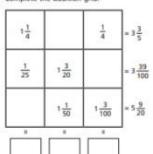
https://www.khanacademy.org/ math/arithmetic/fractionarithmetic/arith-review-add-submix-num-w-unlikeden/v/adding-subtractingmixed-numbers-1-ex-2

Which of these are true and which are false? Can you decide without having to do the additions or the subtractions?

Talk about your reasons with a partner.

	True or false?
$2\frac{1}{3} + 3\frac{3}{4}$ is equal to $3\frac{1}{3} + 2\frac{3}{4}$	
$3\frac{3}{4} - \frac{1}{3}$ is less than $4\frac{3}{4} - 1\frac{1}{3}$	
$3\frac{3}{4} - 2\frac{1}{3}$ is equal to $3\frac{1}{3} - 2\frac{3}{4}$	

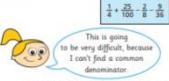
6 Complete the addition grid.



A painter uses the following mixtures. How much more green paint does she have than purple paint?



Eva and Amir are working out this calculation.





Find Amir's solution. Explain how this calculation can be solved.