Year 6 Maths

Monday 22nd February 2021

Please watch the narrated Powerpoint on fractions. It revises the areas covered so far on fractions and is an opportunity to rehearse skills and knowledge. You will need to print the tasks off before watching the Powerpoint and please don't go on to the next slide until you have completed the task and used the answers sheet to check your work.

Tuesday 23rd February 2021

Please go to:

https://classroom.thenational.academy/lessons/fractions-divide-a-proper-fraction-by-an-integer-6tjkgd

Fractions: Divide a proper fraction by an integer

There is a quiz to start you off, it's not too hard so try to get them all correct!

Main Lesson

This is quite a tricky session; it explores the relationship between dividing and multiplying by a fraction. You need to understand that dividing a number will give the same result as multiplying by its **reciprocal** (1 divided by that number). For example 12 ÷ 4= 3 is the same as 12 ×1/4= 12/4 - and this an improper fraction and would convert to 3. So the answer is the same.

That's a lot to understand and Miss Parsons demonstrates with models very clearly. Here's a STEM sentence to help:

If you divide a number by 2, it is the same as finding ½ or multiplying it by ½.

For example:

24÷2=12

The same as 24 × ½

It would become 24/1 × ½ and would be equal to 24/2 = 12

Another STEM Sentence for you:

If you divide a number by 4, it is the same as multiplying it by ¼.

For example:

40 ÷ 10=4

The same as 40 × ¼

It would become 40/1 × ¼ and would be equal to 40/4=10

Independent Tasks

Miss Parsons asks you to draw the problems pictorially so that you can see the connections.

I really like the tasks because they cover the knowledge and skills being taught in a variety of contexts. However, they will be challenging for some of you, so if you struggle, please watch Miss Parsons carefully as she goes through the answers. If you need to watch more than once, please do so. If you still don't understand, you must get in touch with us, one of us can give you a call and work out a way to support you. These are important concepts so please don't ignore any difficulties - we are here to help you.

Final Quiz

There is only 1 question! So try to get it right!

Wednesday 24th February 2021 and Thursday 25th February 2021

https://classroom.thenational.academy/lessons/fractions-multiply-and-divide-with-improper-fractions-74tk8c

Fractions: Multiply and divide with improper fractions

We'd like you to allow two sessions for this lesson, so use this morning and tomorrow morning to watch the whole video and complete the tasks.

The quiz at the beginning is the same as the final quiz from yesterday–it's only one question so you should be fine!

Main Lesson

For this lesson you will need to be able to convert between improper and mixed number fractions. Use this STEM Sentence to help you:

To convert an improper fraction to a mixed number fraction we must divide the numerator by the denominator and the remainder is placed over the denominator.

For Example:

16/6

16÷6=2 remainder 4 so the answer is 3 4/6 and we could simplify the 4/6 to 2/3

To convert mixed number fractions to improper fractions we must multiply the whole number by the denominator and then add the numerator

2 7/8 2 × 8 = 16 add 7 = 24/8

In this lesson you will be learning how to multiply improper and mixed number fractions and Miss Parsons explains very clearly why we must convert a mixed number fraction into an improper fraction before multiplying.

I'd like you to watch the video and complete the tasks over today and tomorrow. There is a quiz at the end, try to get 3/3!

Friday 26th February 2021

Well done for completing some very advanced Maths this week!

Today we'd like you to complete at least one of the Maths Mats. Choose the right level for you and if you complete one and have time to spare, please attempt the next level up. If you need an extra challenge, head to the Maths Extension Task tab.

You will also see a maths game on the weekly timetable - game **Guardians: Defenders of Mathematica** on BBC Bitesize. Enjoy!

A Friday joke for you…..

Why did the kid throw the clock out the window?

(punchline next week…)