HOME LEARNING

YEAR 6

17/06/2020

Morning Message

Good morning Year 6,

The answer to Marcello's challenge: *starting, staring, string, sting, sing, sin, in, I*

Today's joke: *Why did Mr Tang need a ladder? To reach the high notes*

One from Inigo: *Why is Europe a frying pan? Because Greece is at the bottom.*

The answer to yesterday's anagram: Portugal

Today's anagram: DAN COLTS

Have a great day,

Mr Larke and Ms Yerlisu

Week's Picture

Writing

Wednesday LO: to describe a chase scene

Today, you will be describing a scene where Tom and Oscar are chased by whoever you planned on Monday. Maybe Tom jumps onto a bike with Oscar in the basket and the chase occurs through the town with the followers in a car? Maybe they are chased through the woods to the beach and the chase continues on a dinghy?

Try to keep your writing full of energy and excitement.

Tips for success:

- vary sentence lengths for dramatic effect
- build drama throughout the scene

Reading

Day 3: Teacher questions

1. Which words in the text are *not* Standard English and suggest the characters speak with regional accents?
2. What is the bus driver's full name? (page 1)
3. Read paragraph 2 on page 1. How does the narrator feel about bus passengers? Include evidence to back up your point.
4. Who do you think Betty is? Why? (page 2)
5. *"He's getting on," answers her friend.* What does her friend mean when she says this? (page 2)
6. *"Off!" snaps Bert.* What does the word *snaps* tell you about the way Bert is talking? (page 2)

In this lesson, you will learn to divide fractions by a whole number. You will understand the relationship between the numerator and the whole number and also recognise that only multiples of the numerator work using the method of dividing the numerator.

Calculating – dividing fractions by whole numbers

To divide a fraction by a whole number, you multiply the denominator (the bottom part) by the whole number. So,

$$\frac{1}{2} \div 2 = \frac{1}{2 \times 2} = \frac{1}{4}$$

A half divided in two is a quarter: ÷ 2 =

Sometimes you might need to simplify the answer. For example,

$$\frac{2}{3} \div 2 = \frac{2}{3 \times 2} = \frac{2}{6} = \frac{1}{3}$$

1 Solve these problems:

a $\frac{1}{4} \div 2 = \dfrac{\square}{\square \times \square} = \dfrac{\square}{\square}$

b $\frac{1}{5} \div 3 = \dfrac{\square}{\square \times \square} = \dfrac{\square}{\square}$

c $\frac{1}{3} \div 4 = \dfrac{\square}{\square \times \square} = \dfrac{\square}{\square}$

d $\frac{3}{4} \div 2 = \dfrac{\square}{\square \times \square} = \dfrac{\square}{\square}$

e $\frac{3}{4} \div 3 = \dfrac{\square}{\square \times \square} = \dfrac{\square}{\square} = \dfrac{\square}{\square}$

f $\frac{3}{5} \div 6 = \dfrac{\square}{\square \times \square} = \dfrac{\square}{\square} = \dfrac{\square}{\square}$

2 Fill in the missing numbers:

a $\dfrac{1}{\boxed{}} \div 3 = \dfrac{1}{\boxed{} \times 3} = \dfrac{1}{9}$

b $\dfrac{1}{\boxed{}} \div 4 = \dfrac{1}{\boxed{} \times 4} = \dfrac{1}{16}$

c $\dfrac{2}{7} \div \boxed{} = \dfrac{2}{7 \times \boxed{}} = \dfrac{2}{21}$

d $\dfrac{5}{\boxed{}} \div 2 = \dfrac{5}{\boxed{} \times 2} = \dfrac{1}{12}$

e $\dfrac{4}{\boxed{}} \div 4 = \dfrac{4}{\boxed{} \times 4} = \dfrac{4}{20} = \dfrac{\boxed{}}{\boxed{}}$

f $\dfrac{3}{4} \div \boxed{} = \dfrac{3}{4 \times \boxed{}} = \dfrac{\boxed{}}{\boxed{}} = \dfrac{1}{8}$

Multiplying and dividing fractions

To **multiply** fractions, just remember: Multiply the numerators (top) and the denominators (bottom)

of = 'X'

$$\dfrac{1}{3} \text{ of } \dfrac{2}{5} = \dfrac{1}{3} \times \dfrac{2}{5} = \dfrac{1 \times 2}{3 \times 5} = \dfrac{2}{15}$$

To **divide** an amount by a fraction, just remember: flip the second fraction then multiply

$$\dfrac{1}{3} \div \dfrac{2}{5} = \dfrac{1}{3} \times \dfrac{5}{2}$$ Only flip the second fraction

$$= \dfrac{1 \times 5}{3 \times 2}$$
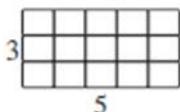
Change the '÷' to a 'X'

$$= \dfrac{5}{6}$$

Remember: A flipped fraction is called the reciprocal fraction
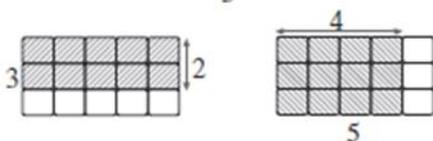
Simplify these:

We can use shaded diagrams to calculate the multiplication of two fractions
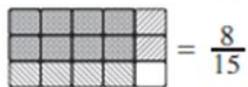
(i) $\frac{2}{3}$ of $\frac{4}{5}$

Draw a grid using the denominators as the dimensions

Use the numerators to shade columns/rows

$= \frac{8}{15}$

$\therefore \frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$

Write where they overlap as a fraction

If whole numbers are involved, write them as a fraction

(ii) $28 \div \frac{2}{7}$

$$\therefore 28 \div \frac{2}{7} = 28 \times \frac{7}{2}$$

Flip the second fraction and change sign to '×'

$$= \frac{28}{1} \times \frac{7}{2}$$

Write the whole number as a fraction

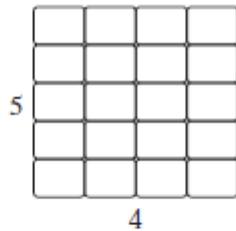$$= \frac{196}{2}$$

$$= \frac{98}{1}$$

Simplify

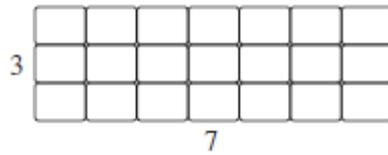$$= 98$$

⚙️ Multiplying and dividing fractions

1 Calculate these fraction multiplications by shading the given grids:
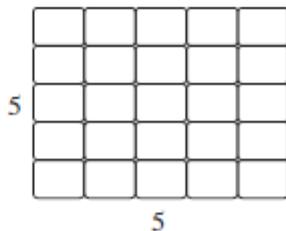
a $\frac{1}{5}$ of $\frac{3}{4}$

5

4

$\therefore \frac{1}{5}$ of $\frac{3}{4} = \dfrac{\square}{\square}$

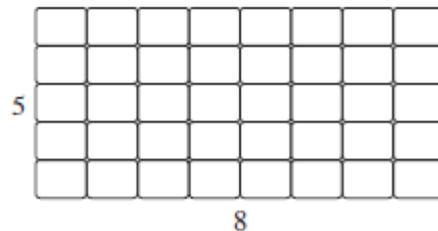**b** $\frac{2}{3}$ of $\frac{4}{7}$

3

7

$\therefore \frac{2}{3}$ of $\frac{4}{7} = \dfrac{\square}{\square}$

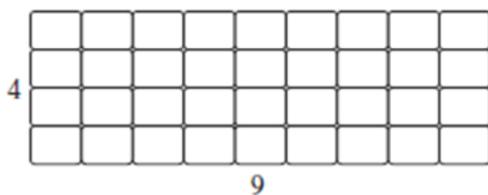**c** $\frac{4}{5}$ of $\frac{4}{5}$

5

5

$\therefore \frac{4}{5}$ of $\frac{4}{5} = \dfrac{\square}{\square}$

d $\frac{2}{5}$ of $\frac{3}{8}$

5

8

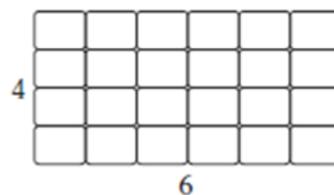$\therefore \frac{2}{5}$ of $\frac{3}{8} = \dfrac{\square}{\square} = \dfrac{\square}{\square}$

simplified

e $\frac{3}{4}$ of $\frac{7}{9}$

4

9

$\therefore \frac{3}{4}$ of $\frac{7}{9} = \dfrac{\square}{\square} = \dfrac{\square}{\square}$

simplified

f $\frac{3}{4}$ of $\frac{5}{6}$

4

6

$\therefore \frac{3}{4}$ of $\frac{5}{6} = \dfrac{\square}{\square} = \dfrac{\square}{\square}$

simplified

Multiplying and dividing fractions

2 Simplify these without the aid of a calculator:

a $\frac{1}{2} \times \frac{1}{3}$

b $\frac{3}{5} \times \frac{1}{4}$

c $\left(\frac{2}{3}\right)^2$ psst: this is just $\frac{2}{3} \times \frac{2}{3}$

d $\left(\frac{3}{5}\right)^2$

e $\frac{1}{3} \div \frac{3}{2}$

f $\frac{2}{11} \div \frac{1}{4}$

g $\frac{5}{6} \div 4$

h $\frac{3}{4} \div 8$

i $10 \times \frac{4}{5}$

j $24 \times \frac{3}{8}$

k $12 \div \frac{3}{5}$

l $2 \div \frac{2}{13}$

Multiplying and dividing fractions

3 Simplify these without the aid of a calculator, remembering to write the answer in simplest form.

a $\left(\dfrac{2}{8}\right)^2$

b $\dfrac{3}{4} \times \dfrac{3}{2}$

c $\dfrac{3}{8} \div \dfrac{5}{4}$

d $\dfrac{2}{3} \div \dfrac{5}{3}$

e $\dfrac{9}{10} \div \dfrac{8}{5}$

f $\dfrac{3}{4} \times \dfrac{2}{3} \times \dfrac{1}{2}$ psst: same as the others!

g $\dfrac{2}{5} \times \dfrac{3}{6} \times \dfrac{1}{3}$

h $\dfrac{1}{2} \div 4 \div \dfrac{1}{2}$ psst: work left to right!

Weekly Spellings

You should continue to revise words/spelling patterns from the KS2 National Curriculum that you have identified as necessary. We have provided a bank of words for you to begin learning if you feel you are totally secure in your knowledge of KS2 words. Remember, it is more important that you revise all necessary spelling patterns first.

The following words are from word banks that you will begin to learn at secondary school. These particular words contain what are known as 'unstressed' vowels. That means when you speak the words, you don't sound out all the vowels e.g. *abominable* You don't really hear the *i* vowel when reading it. Your job for week 3 is to learn the words in the third list ie. from *easily* to *generally*

abandoned	conference	easily	generous	library	offering	similar
abominable	consonant	explanatory	geography	literacy	original	skeleton
alcohol	corporal	extra	grammar	literate	parallel	smuggler
animal	deafening	factory	heaven	literature	parliament	stationary
astronomy	definite	familiar	history	locomotive	poisonous	stationery
benefit	definitely	family	holiday	lottery	predict	telephone
boundary	describe	fattening	hospital	margarine	prepare	television
business	description	February	illiterate	marvellous	primary	vegetable
carpet	desperate	flattery	interest	mathematics	prosperous	voluntary
category	dictionary	formal	interested	medicine	reference	Wednesday
Catholic	difference	freedom	January	memorable	Saturday	widening
centre	different	frightening	jewellery	messenger	secretary	
company	disinterest	general	journalist	miniature	separate	
compromise	doctor	generally	lettuce	miserable	signature	

Foundation Topic Work (for the week)

Today's task on Purple mash is to use 2 Create a Story to illustrate the story that you write in English this week. When you open the app, click on 'My Adventure Story'. Experiment with creating 3 or 4 images which tell the main parts of the story, along with some brief text to summarise each – with younger readers in mind. If your first scene was Tom finding the robbers burying the treasure, you could paint the scene then write:

Tom and Oscar stumbled upon some evil people burying treasure.

Diary

Write a diary of what work and activities you did today. Remember to include your thoughts, feelings and opinions.