Year 6

Monday 11th May 2020

Maths

LO: to multiply fractions by integers

Please note: there is no lesson on Zoom today as the teachers are in school. We recommended that you watch the video of the lesson using the link below.

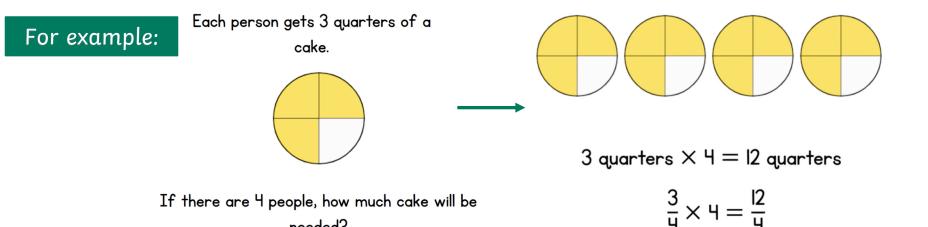
<u>Please note: this link only works on either pdf or the link above this powerpoint.</u>

<u>The video lesson is available here – Summer Term - Week 4 - lesson 1</u>

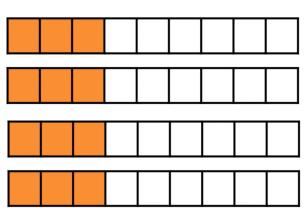




Today we are revising how to multiply fractions by integers. An integer is another way of saying a whole number. For example 1, 2 and 3 are all integers. 0.5, 3/5th and 2.75 are not.

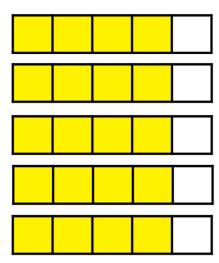


needed?



3 ninths
$$\times 4 = \boxed{\text{ninths}}$$

$$\frac{3}{9} \times 4 = \boxed{\frac{1}{9}}$$



2:

$$\frac{4}{5} \times 5 = \frac{2}{5}$$

Here are the answers for 1 and 2. Can you fill in the blanks for questions 3 and 4?

$$\frac{3}{4} \times 4 = \frac{12}{4}$$

$$\frac{3}{12} \times 5 = \frac{1}{12}$$

$$\frac{3}{\mathsf{q}} \times \mathsf{4} = \frac{\mathsf{12}}{\mathsf{q}}$$

$$\frac{3}{12} \times \square = \frac{30}{12}$$

Think:
What is the same
and what is
different between
the fraction and
the answer?

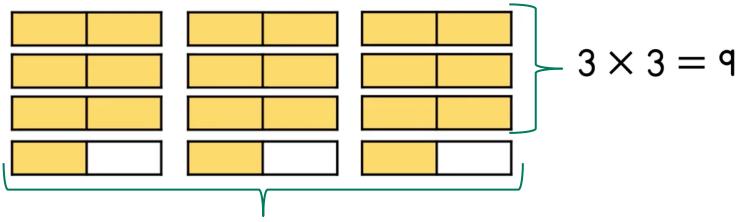
5:

Can you complete this sentence?

When I multiply a fraction by an <mark>integer</mark> I tice_________

What about multiplying a mixed number by an integer?

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

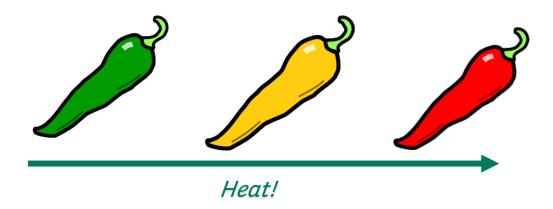


$$\frac{1}{2} \times 3 = \frac{3}{2} = 1\frac{1}{2}$$





The independent work continues on the next two slides. There are 8 questions and 1 extension.



Multiply fractions by integers





Complete the calculations.

a)

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



b)



$$3 \times \frac{3}{10} =$$



a) Shade the bar models to show $\frac{2}{5} \times 4$

b) Complete the multiplication.

$$\frac{2}{5} \times 4 =$$



Complete the calculations.





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

$$\frac{3}{4} \times 2 =$$

$$\frac{1}{3} \times 3 =$$

$$\frac{3}{4} \times 3 =$$

$$\frac{1}{3} \times 4 =$$

$$\frac{3}{4} \times 4 =$$

$$\frac{1}{3} \times 5 =$$

$$\frac{3}{4} \times 5 =$$

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

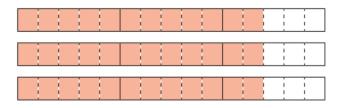
$$\frac{3}{4} \times 6 =$$

What patterns do you notice?



Complete the multiplication.

$$2\frac{2}{5} \times 3 =$$



What method did you use? Is there a different method you could have used?



Match the calculations.



$$\frac{2}{3} + \frac{2}{3}$$

$$\frac{1}{2} \times 6$$

$$\frac{1}{4} \times 24$$

$$18 \times \frac{1}{4}$$

$$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4}$$

$$\frac{1}{6} \times 10$$

$$\frac{5}{12} \times 4$$

$$12 \times \frac{1}{2}$$

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

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

Write each answer as a mixed number in its simplest form.



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

d)
$$2\frac{2}{5} \times 5 =$$

b) $2\frac{1}{6} \times 3 =$

e)
$$7 \times 3\frac{1}{2} =$$

c) $2\frac{2}{5} \times 4 =$

f)
$$\frac{11}{15} \times 7 =$$

Fill in the missing numbers.



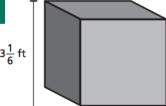
a)
$$2\frac{1}{7} \times 3 = 6\frac{6}{7}$$

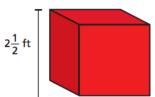
a)
$$2\frac{1}{7} \times 3 = 6\frac{6}{7}$$
 b) $2\frac{1}{8} \times 3 = 7\frac{1}{2}$

Tommy's dog eats 3 $\frac{1}{2}$ tins of food a week. How many tins does she eat in a year?



Ext





Jack builds a tower using grey blocks.

Alex builds a tower using red blocks.

The towers are exactly the same height.

How many blocks could they each have used?