## Year 6

## Monday $11^{\text {th }}$ 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.

Please note: this link only works on either pdf or the link above this powerpoint.
The video lesson is available here - Summer Term - Week 4 - lesson 1


> 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. $0.5,3 / 5$ th and 2.75 are not. cake.


3 quarters $\times 4=12$ quarters
If there are 4 people, how much cake will be needed?

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



3 ninths $\times 4=\square$ ninths

$$
\frac{3}{9} \times 4=\frac{\square}{9}
$$

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

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


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

Can you complete this sentence?
When I multiply a fraction by an integer I notice

## What about multiplying a mixed number by an integer?

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




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


## Multiply fractions by integers

Complete the calculations.
a)

b)


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

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

b) Complete the multiplication.

(3) Complete the calculations.
$\frac{1}{3} \times 1=\square$


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

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

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

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

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

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

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

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

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

What patterns do you notice?

## Complete the multiplication. <br> 




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

5
Match the calculations.

$\frac{2}{3}+\frac{2}{3}$
$\frac{1}{2} \times 6$
$\frac{1}{4} \times 24$

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

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

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

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

d) $2 \frac{2}{5} \times 5=\square$
b) $2 \frac{1}{6} \times 3=\square$
e) $7 \times 3 \frac{1}{2}=\square$
c) $2 \frac{2}{5} \times 4=$ $\square$
f) $\frac{11}{15} \times 7=\square$
7) Fill in the missing numbers.

a) $2 \frac{\square}{7} \times 3=6 \frac{6}{7}$
b) $2 \frac{\square}{8} \times 3=7 \frac{1}{2}$
(8) Tommy's dog eats $3 \frac{1}{2}$ tins of food a week. How many tins does she eat in a year?


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?

