I can multiply fractions by integens.
27.11 .20

## Warm up...

What is an integer?
1)

2)

3) Two sevenths + two sevenths + two sevenths =

## Warm up...

There are 3 flowers in a vase.


If there are 4 vases, how many flowers will there be?

## Let's work this out...

Each person gets 3 quarters of a cake.


If there are 4 people, how much cake will be needed?


3 quarters $\times 4=12$ quarters

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



3 sevenths $\times 4=\square$ sevenths

$$
\frac{3}{7} \times 4=\frac{\square}{7}
$$

## Calculate $4 \frac{1}{5} \times 6$

## Your task...



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

## Your task...

Match the calculotions.


Fill in the missing numbers.
$\begin{array}{ll}\text { a) } 2 \frac{\square}{7} \times 3=6 \frac{6}{7} & \text { b) } 2 \frac{\square}{8} \times 3=7 \frac{1}{2}\end{array}$

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

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

c) $2 \frac{2}{5} \times 4=\square$
f) $\frac{11}{15} \times 7=\square$

## Problem Solving...

Eva and Amir both work on a homework project.


I spent $4 \frac{1}{4}$ hours a week for 4 weeks doing my project.

## I spent $2 \frac{3}{4}$ hours a week for 5 weeks doing my project.

Who spent the most time on their project?

Explain your reasoning.

## Droonenn Solvine.o.

Eva and Amir both work on a homework project.


Who spent the most time on their project?

Explain your reasoning.
$4 \times 4 \frac{1}{4}=\frac{68}{4}$
$=17$ hours
$5 \times 2 \frac{3}{4}=\frac{55}{4}$
$=13 \frac{3}{4}$ hours

Eva spent $3 \frac{1}{4}$
hours longer on her project than Amir
did.

If you multiply $\frac{2}{7}$ by an integer, you will never get a whole number answer.

## False

For example $\frac{2}{7} \times 7=\frac{14}{7}$ which is equal to 2

