

How can you add eight 8s to equal 1,000?  
(You can only use addition)



$$888 + 88 + 8 + 8 + 8 = 1,000$$

# Brainwarmer

1.  $4 \times 3 =$
2.  $6 \times 4 =$
3.  $2 \times 8 =$
4.  $9 \times 10 =$
5.  $6 \times 5 =$

1.  $22 \times 5 =$
2.  $43 \times 6 =$
3.  $36 \times 8 =$
4.  $75 \times 4 =$
5.  $81 \times 9 =$

1.  $63 \times 11 =$
2.  $72 \times 8 =$
3.  $29 \times 7 =$
4.  $43 \times 12 =$
5.  $52 \times 13 =$



## Learning Question:

How can I solve word problems that involve multiplying fractions?

## Success Criteria:

I will be successful if I:

- Read the question carefully
- Underline key information
- Choose the correct operation
- If necessary, convert any mixed numbers to improper fractions
- Solve the calculation
- Write my answer as a fraction
- Simplify my answer

## Vocabulary

- Fraction
- Multiply
- Numerator
- Denominator
- Whole
- Mixed Number
- Improper
- Convert

# How can I solve word problems that involve multiplying fractions?

How can we use this in today's lesson?



- **R**ead the question carefully
- **U**nderline key information
- **C**hoose the correct operation
- **S**olve it
- **A**nsWER the question
- **C**heck your answer

# How can I solve word problems that involve multiplying fractions?

Hard

Use repeated addition:

Peter runs  $\frac{1}{2}$  mile every day. How far has he run after 5 days?



## How can I solve word problems that involve multiplying fractions?

Harder

Q - What is the calculation?

A jug holds  $\frac{3}{4}$  of a litre of juice. If James fills 6 jugs, how much juice would he have?

Q - How should we write our answer?



# How can I solve word problems that involve multiplying fractions?

Hardest

Q - What will I have to do to both mixed numbers?

Q - What is the calculation?

A cat weighs  $2 \frac{3}{4}$  kilograms. After a year, it weighs  $2 \frac{1}{2}$  times as much. How much does the cat weigh now?

Q - How should we write our answer?





# How can I solve word problems that involve multiplying fractions?

Q - What calculations are needed for this question?

On Friday, Jess played tennis for  $1 \frac{3}{4}$  hours. On Saturday she played  $2 \frac{1}{2}$  times as long as on Friday. How long did she spend playing on Sunday if she played  $1 \frac{1}{2}$  times as long on Saturday?





# How can I solve word problems that involve multiplying fractions?

Hardest

Herculean

## Top tips!

You must convert the mixed numbers to improper fractions before you can calculate your answer if:

- You are multiplying a mixed number by a fraction.
- You are multiplying two mixed numbers.



# How can I solve word problems that involve multiplying fractions?

Please write out the calculation!

## Hard

Use repeated addition to answer the word problems.

Can you convert your answer into a mixed number?

## Harder

Solve the word problems that involve multiplying fractions by fractions and whole numbers.

Write your answer as a mixed number.

## Hardest

Solve word problems that involve multiplying fractions and mixed numbers.

Write your answer as a mixed number (don't leave any improper fractions!).

Herculean: Solve the two step word problems involving multiplying fractions.

# How can I solve word problems that involve multiplying fractions?

Can you complete the fraction tower using the fractions in the box? Not all will be used.

**FRACTION BANK**

$\frac{1}{8}$	$\frac{2}{3}$	$\frac{2}{4}$	$\frac{2}{5}$	$\frac{4}{15}$
---------------	---------------	---------------	---------------	----------------

