

24.02.21

Thursday, February 11, 2021 11:52 AM

Today, you will be continuing to learn how to multiply fractions, but today you will be learning a new method which does not include bar models!

24.02.21

TBQ: Can I multiply a whole number by a fraction?

*STEPS TO SUCCESS*

I can identify a whole number.

I can use my multiplication knowledge to multiply a fraction and a whole number.

I can decide whether my answer is sensible or not by estimating.

### Counting

Count forwards in 6's from 0

These numbers are also in the 3 times tables. Can you see any other links between these numbers and a different times table?

### Starter

Solve the sequences below

a)  $1\frac{1}{2}$ , , 3,  $3\frac{3}{4}$ ,  $4\frac{1}{2}$

b)  $6\frac{1}{2}$ ,  $5\frac{5}{6}$ ,  $5\frac{1}{6}$ , ,

c) ,  $5\frac{1}{10}$ ,  $5\frac{4}{10}$ , ,

## Activity 1

Watch the video below to help you learn the new method!

[Multiplying Fractions by Whole Numbers | How to Multiply Fractions | 5th Grade Math](#)

The link is: [https://www.youtube.com/watch?v=B8LVDxQB\\_LQ](https://www.youtube.com/watch?v=B8LVDxQB_LQ)

## Activity 2

$$2 \times \frac{5}{12} =$$

$$3 \times \frac{4}{10} =$$

## Reasoning Rex

Amir is multiplying fractions by a whole number.



$$\frac{1}{5} \times 5 = \frac{5}{25}$$

Can you explain his mistake?



Reasoning

D - I think Amir is...

A - The mistake Amir has made is...

## B - He should solve the question by...

### Chilli Challenges

#### Mild

Use the method we have looked at today to answer the questions below!

$$\frac{3}{8} \times 12 = \square \quad \frac{1}{5} \times 5 = \square \quad 0 \times \frac{9}{11} = \square$$

$$\frac{4}{7} \times 8 = \square \quad 3 \times \frac{1}{9} = \square \quad 7 \times \frac{5}{14} = \square$$

#### Hot

Use the method we have looked at today to answer the questions below!

1. James is having a pizza party. Each person at the party eats  $\frac{3}{8}$  of a pizza. If 6 people attend the party, how many pizzas did James need?

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2. Lucy walked  $\frac{1}{6}$  of a kilometre each day for 8 days. How many kilometres did she walk in total?

\_\_\_\_\_

3. Tina swam  $\frac{3}{4}$  of a kilometre on Monday, Tuesday, Wednesday and Friday. How many kilometres did she swim in total?

\_\_\_\_\_

4. Jack baked some trays of brownies for his 5 friends. He is going to give each of his friends  $\frac{4}{6}$  of a tray. How many trays of brownies does he give away?

\_\_\_\_\_

5. Five children share some pizzas. Each child eats  $\frac{2}{3}$  of a pizza. How many pizzas are eaten?

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## Flaming Hot

Solve the worded problems below!

1. Kenneth is having a pizza party. Each person at the party will eat  $\frac{3}{8}$  of a pizza. If 6 people attend the party, how many slices of pizza does Kenneth need?
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2. Regina walked  $\frac{1}{6}$  of a mile each day for 8 days. How many miles did she walk in all?
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3. Tina swam  $\frac{2}{4}$  of a mile on Monday, Wednesday, and Friday. How many miles did she swim on all three days?
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4. Jack baked brownies. He is going to give each of his friends  $\frac{1}{6}$  of a pan. How many brownies does he need if he is going to give brownies to 5 friends?
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5. Tracey baked several pies for her 8 family members. If each family member eats  $\frac{3}{5}$  of a pie, how many pieces does she need to have baked?
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