

Maths 08.02.21

Monday, January 25, 2021 7:52 AM

Please write all of your answers in RED so it is easier for us to find. Don't forget your Reasoning Rex at the bottom of the page. If you finish, please move on to the next challenge or go on accelerated maths. PLEASE SHOW YOUR WORKING OUT FOR AT LEAST 2 QUESTIONS. This can be using the draw tool or a picture.

5 minute challenge! - Please aim to complete all of these questions even if it takes you longer than 5 minutes.

1. 60 multiplied by 30 =
2. 17 456 subtract 4 737 =
3. $9 + 7 + 8 =$
4. $7 \times \underline{\quad} = 0$
5. $76\ 328 + 484\ 313 =$

Counting starter:

Count in steps of 1 000 from 343 561. Write the next 4 steps below.

1. 343 561
- 2.
- 3.
- 4.
- 5.

TBQ: Can I multiply fractions?

Vocabulary matching - Write the letter of the correct word next to the correct definition in red.

- A) Fraction
- B) Integer

- C) Numerator
- D) Denominator
- E) Mixed number
- F) Improper fraction

Definition

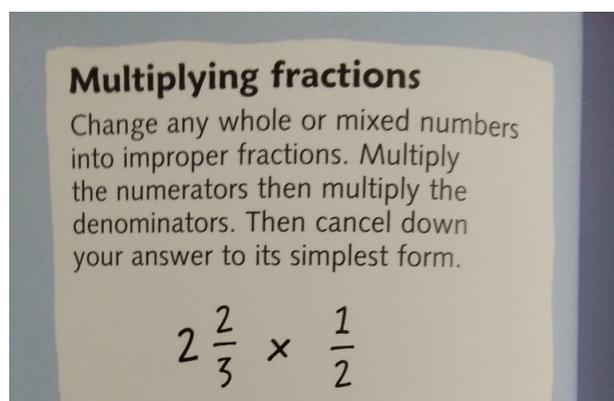
- 1) a whole number
- 2) where the numerator is larger than the denominator
- 3) the top number of a fraction
- 4) partly a whole number, partly a fraction
- 5) the bottom number of a fraction
- 6) a number that represents parts of a whole

Watch this video to recap how to multiply fractions by whole numbers and fractions! *If you are confident with multiplying fractions*, scroll down to the **flamin'** challenge and watch the video involving mixed numbers and complete the challenge.

<https://vimeo.com/475426110>

[Aut6.11.3 - Multiply fractions by integers](#)

...



$$= \frac{8}{3} \times \frac{1}{2}$$

Change the mixed number to an improper fraction.

$$= \frac{8}{3} \times \frac{1}{2}$$

Multiply the numerators.
Multiply the denominators.

$$= \frac{8}{6}$$

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

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

Write the fraction in its simplest form.

You can also use page 37 of your blue KS2 SATs book.

Chilli Challenge! Please write all of your answers in **red**. If you finish your challenge early, either move on to the next challenge or go on one of the maths programmes. **Don't forget the Reasoning Rex!**

Mild:

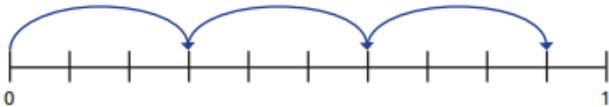
1)

a)

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



b)



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

A)

B)

2)

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

Answer:

3)

$$a) \frac{2}{3} \times \frac{2}{3} =$$

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

$$b) \frac{3}{4} \times \frac{1}{2} =$$

$$d) \frac{2}{5} \times \frac{3}{4} =$$

A)

B)

C)

D)

Hot: Answer the questions below.

Q1) Please give your answer as a mixed number. The videos below will help you.

<https://www.bbc.co.uk/bitesize/articles/z4ypscw>

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

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

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

$$d) \frac{2}{5} \times 7 =$$

A)

B)

C)

D)

2) $2 \text{ and } \frac{2}{5} \times 3 =$ _____

3)

$$a) \frac{3}{5} \times \frac{3}{\square} = \frac{\square}{20}$$

$$b) \frac{3}{\square} \times \frac{\square}{3} = \frac{6}{21}$$

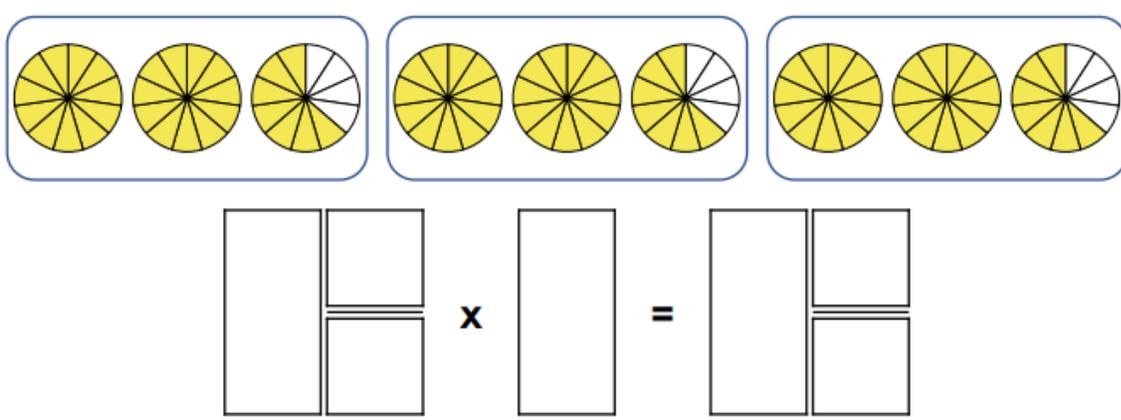
A)

B)

Flamin' Hot: Watch this video to show you how to multiply a mixed number by an integer.

<https://www.bbc.co.uk/bitesize/articles/z76j2sg>

1. Write and complete the multiplication sentence that matches the image below.



$\begin{array}{|c|c|} \hline \square \\ \hline \square \\ \hline \end{array} \times \square = \begin{array}{|c|c|} \hline \square \\ \hline \square \\ \hline \end{array}$

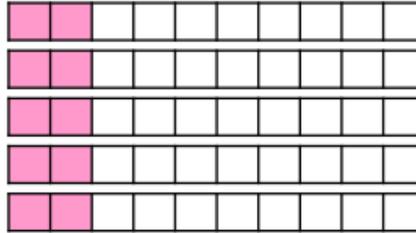
Answer:

2. Complete the statement below using $<$, $>$ or $=$.

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



$$2\frac{2}{10} \times 5$$



Answer:

3. Use the digit cards to complete the calculation.

$$1\frac{\square}{7} \times \square = 5\frac{\square}{7}$$



Answer:

4)

Fill in the missing numbers.

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

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

A) Answer:

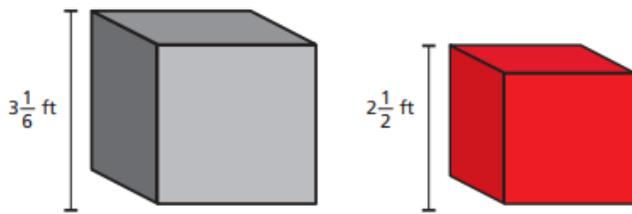
B) Answer:

5)

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

Answer:

6)



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?

Answer:

7) Use the draw tool.

Match the calculations.

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

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

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

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

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

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

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

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

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

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

Reasoning Rex: If you multiply $\frac{2}{7}$ by an integer, you will never get a whole number answer. Rex thinks this is true. Is he correct?

If you finish all the tasks, you can go on accelerated maths, TTRocks and Maths Facts.