LO: to multiply fractions (by a whole number)

you do

How would I solve.....

$\frac{3}{10} \times 2 =$

$\frac{6}{9} \times 3 =$

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Complete in books

you do

REASONING 3

True or False?

$2\frac{2}{6} \times 4 = ___$ > $2 \times 4\frac{3}{9} = ___$

Prove your answer with examples!

7a. There are 9 children at a party.

Each child needs 3 pizzas plus an extra $\frac{4}{11}$ of another pizza.

How many whole pizzas need to be ordered?
Create an image to prove it.

8a. Sheraz solved the calculation below.

$\frac{27}{15} \times 6$

Sheraz

The answer is $10\frac{4}{15}$.

Find and correct Sheraz's mistake.

9a. Olivia is practising for a school play.

Olivia

I need to practise for more than 12 hours. I can practise for $2\frac{5}{9}$ hours a week.

What is the minimum number of weeks Olivia should practise for?
Explain your answer.

REASONING 2

Always, Sometimes or Never?

When you multiply a fraction by an integer, the product is always larger.

Both of these multiplying fractions challenges give answers greater than 5 wholes but less than 7 wholes.

$_\frac{2}{__} \times ___ = 5\frac{1}{__}$

$2\frac{__}{5} \times ___ = ___\frac{__}{5}$

Can you find at least two solutions for each?

we do

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Pink highlighter at the ready....here are the answers!

Greater Depth

7a. $3\frac{4}{11} \times 9 = 30\frac{3}{11}$ so 31 whole pizzas need to be ordered.

8a. Sheraz has not simplified his answer correctly. The answer should be $10\frac{4}{5}$.

9a. $2\frac{5}{9}$ hours x 4 weeks = $10\frac{2}{9}$ hours.

$2\frac{5}{9}$ hours x 5 weeks = $12\frac{7}{9}$ hours. Olivia needs to practise for 5 weeks.

Reasoning 3

Modelled DAB Reasoning Response

D – True

A – $2\frac{2}{6} \times 4 > 2 \times 4\frac{3}{9}$

B – $2\frac{2}{6} \times 4 = 9\frac{2}{6}$ and $2 \times 4\frac{3}{9} = 8\frac{6}{9}$

$9\frac{2}{6} > 8\frac{6}{9}$

we do

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Reasoning 2

Modelled DAB Reasoning Response

D – Sometimes

A – When you multiply a fraction by an integer, the product is sometimes larger.

B – If you multiply a fraction by a positive integer (other than 1) then the product will be larger. If you multiply a fraction by 1 the product will be the same. If you multiply a fraction by 0, the product will be 0 and if you multiply a fraction by a negative number, the product will be smaller.

Problem Solving 1

There are various possible solutions. For example:

$$\frac{2}{4} \times 11 = 5\frac{1}{2}$$

$$2\frac{3}{5} \times 4 = 10\frac{2}{5}$$

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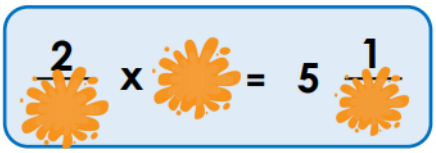

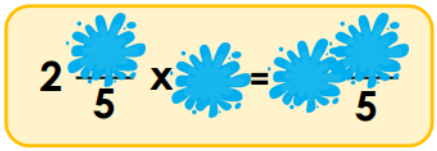

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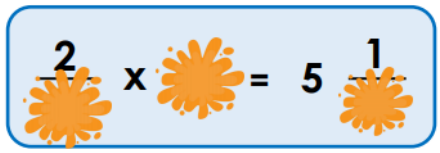

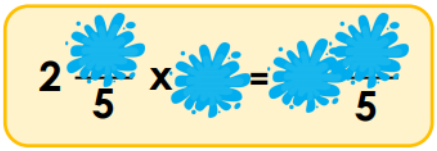

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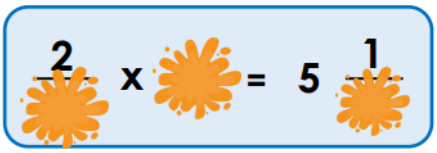

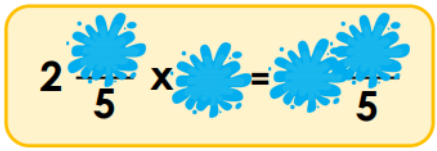

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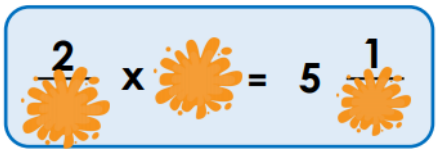

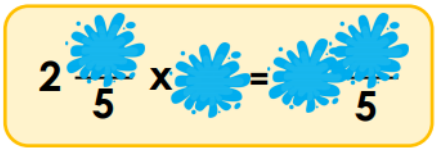

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