

Monday 4th April 2020

Maths-Fractions

WALT: Multiply proper fractions and mixed numbers by whole numbers

Arithmetic

Use the box method to multiply these 2-digit numbers:

Watch the following videos to remind you of how to do this.

<https://www.youtube.com/watch?v=6js-mPOHPhg> and

<https://www.youtube.com/watch?v=H51ALzfoYEI>

$94 \times 38 =$ x 30 8 90 <table border="1"><tr><td>2700</td><td>720</td></tr><tr><td>4 120</td><td>32</td></tr></table>	2700	720	4 120	32	2700 720 120 $+ 32$ <hr/> 3572	$51 \times 18 =$ x <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>				
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$16 \times 41 =$ x <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>						$74 \times 76 =$ x <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>				
$62 \times 63 =$ x <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>						$39 \times 50 =$ x <table border="1"><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>				

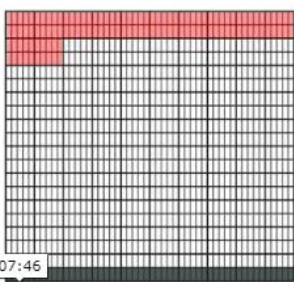
Reasoning

Please go to <https://whiterosemaths.com/homelearning/year-5/> and do the activity for Week 1, Lesson 4 on here. It should look like this:

Lesson 4 - Understand thousandths

What fraction of the square has been shaded?

$\frac{120}{1000}$



07:46

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Get the Activity
Y5 Spring Block 3 WO4 Understand thousandths 2019

Get the Answers
Y5 Spring Block 3 ANS4 Understand thousandths 2019

Activity

Watch the following video for method: <https://www.youtube.com/watch?v=mJUvxRy-flQ>

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

$$5 \times \frac{1}{3} =$$

$$6 \times \frac{1}{5} =$$

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

Rene's parents have put a half-hour daily limit on how long the TV is watched in their house. What is the maximum number of hours that can be watched over 7 days if they stick to the limit?

A recipe calls for two-fifths ($\frac{2}{5}$) of a pound of chicken for each person. If there are 8 people to be fed, how many pounds of chicken are required?

Rhiannon is having a party. A total of 20 people are coming. How many pizzas will she need to buy if each person has 3 slices and the pizzas are sliced into eighths?

Answers:

Arithmetic:

$94 \times 38 =$ x 30 8 90 <table border="1"><tr><td>2700</td><td>720</td></tr><tr><td>4 120</td><td>32</td></tr></table>	2700	720	4 120	32	2700 720 120 $+ 32$ 3572	$51 \times 18 =$ x 10 8 50 <table border="1"><tr><td>500</td><td>400</td></tr><tr><td>1 10</td><td>8</td></tr></table>	500	400	1 10	8	500 400 10 $+ 8$ 918
2700	720										
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$16 \times 41 =$ x 40 1 10 <table border="1"><tr><td>400</td><td>10</td></tr><tr><td>6 240</td><td>6</td></tr></table>	400	10	6 240	6	400 10 240 $+ 6$ 656	$74 \times 76 =$ x 70 6 70 <table border="1"><tr><td>4900</td><td>420</td></tr><tr><td>4 280</td><td>24</td></tr></table>	4900	420	4 280	24	4900 420 280 $+ 24$ 5624
400	10										
6 240	6										
4900	420										
4 280	24										
$62 \times 63 =$ x 60 3 60 <table border="1"><tr><td>3600</td><td>180</td></tr><tr><td>2 120</td><td>6</td></tr></table>	3600	180	2 120	6	3600 180 120 $+ 6$ 3906	$39 \times 50 =$ x 50 0 30 <table border="1"><tr><td>1500</td><td>0</td></tr><tr><td>9 450</td><td>0</td></tr></table>	1500	0	9 450	0	1500 0 450 $+ 0$ 1950
3600	180										
2 120	6										
1500	0										
9 450	0										

Activity:

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

$$5 \times \frac{1}{3} = \frac{5}{3} = 1 \frac{2}{3}$$

$$6 \times \frac{1}{5} = \frac{6}{5} = 1 \frac{1}{5}$$

$$3 \times \frac{2}{3} = \frac{6}{3} = 2$$

Rene's parents have put a half-hour daily limit on how long the TV is watched in their house. What is the maximum number of hours that can be watched over 7 days if they stick to the limit?

$$7 \times \frac{1}{2} = \frac{7}{2} = 3 \frac{1}{2}$$

The maximum number of hours that can be watched is three and one-half hours.

A recipe calls for two-fifths ($\frac{2}{5}$) of a pound of chicken for each person. If there are 8 people to be fed, how many pounds of chicken are required?

$$8 \times \frac{2}{5} = \frac{16}{5} = 3 \frac{1}{5}$$

Three and one-fifth pounds of chicken are required.

Rhiannon is having a party. A total of 20 people are coming. How many pizzas will she need to buy if each person has 3 slices and the pizzas are sliced into eighths?

$$20 \times \frac{3}{8} = \frac{60}{8} = 7 \frac{1}{2}$$

Rhiannon will need to buy eight pizzas.