Multiplying Fractions by Whole Numbers (visual)

Name:

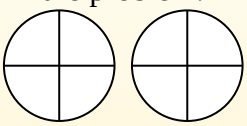
Use the visual model to solve each problem.

$^{2}/_{4} \times 3 =$

To solve multiplication problems with fractions one strategy is to think of them as addition problems.
For example the problem above is the same as:
$^{2}/_{4} + {}^{2}/_{4} + {}^{2}/_{4}$

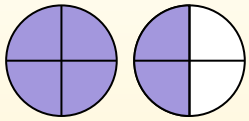
$^{2}/_{4} \times 3 =$

If we shade in 2/4 on the fractions below 3 times we can see a visual representation of the problem.

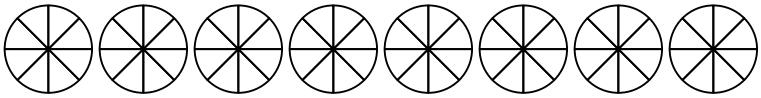


$^{2}/_{4} \times 3 = 1\ {}^{2}/_{4}$

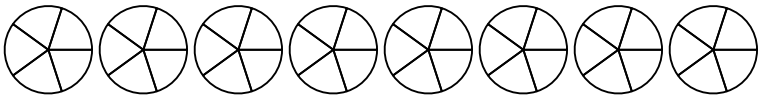
After shading it in we can see why 2/4 three times is equal to 1 whole and $^{2}/_{4}$.



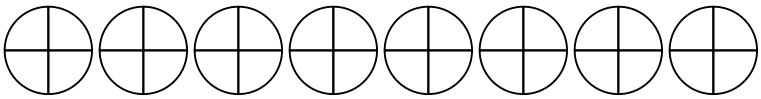
1) $\frac{2}{8} \times 4 =$



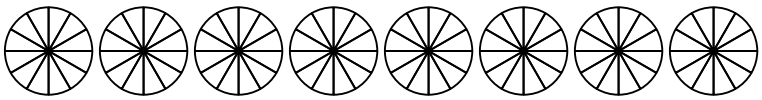
2) $\frac{3}{5} \times 3 =$



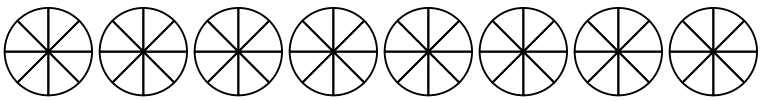
3) $\frac{1}{4} \times 6 =$



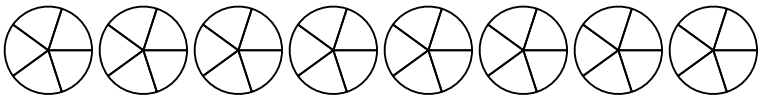
4) $\frac{11}{12} \times 5 =$



5) $\frac{7}{8} \times 6 =$



6) $\frac{2}{5} \times 6 =$



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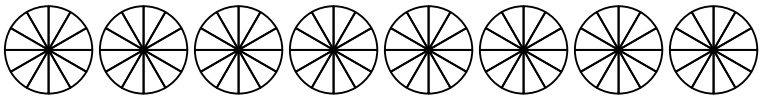
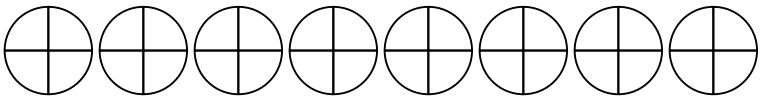
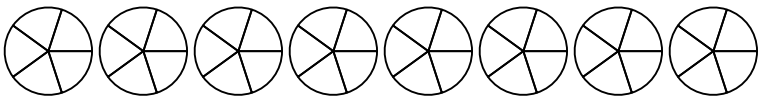


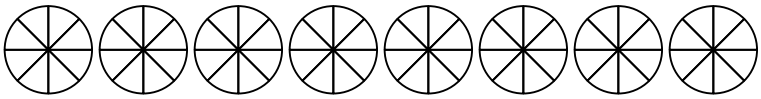
8) $\frac{3}{4} \times 6 =$



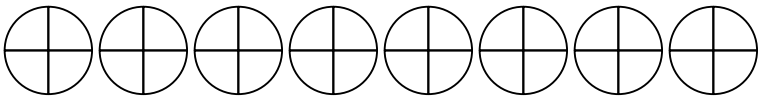
9) $\frac{1}{5} \times 6 =$



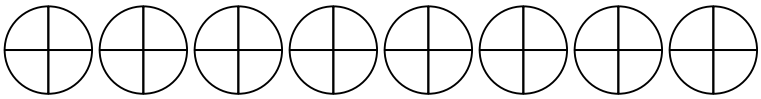
10) $\frac{6}{8} \times 6 =$



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



12) $\frac{2}{4} \times 6 =$



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Multiplying Fractions by Whole Numbers (visual)

Name: **Answer Key**

Use the visual model to solve each problem.

$^{2}/_{4} \times 3 =$

To solve multiplication problems with fractions one strategy is to think of them as addition problems.
For example the problem above is the same as:
$^{2}/_{4} + {}^{2}/_{4} + {}^{2}/_{4}$

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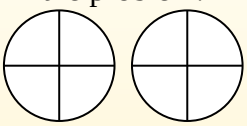
If we shade in 2/4 on the fractions below 3 times we can see a visual representation of the problem.



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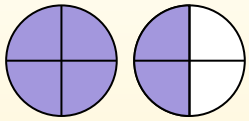
After shading it in we can see why 2/4 three times is equal to 1 whole and $^{2}/_{4}$.



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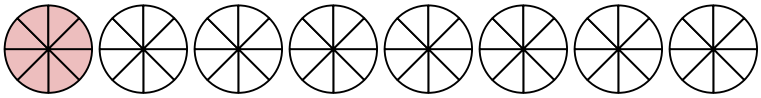
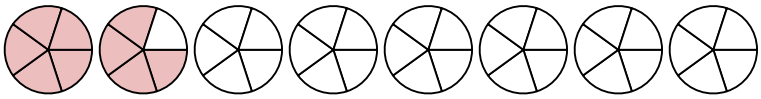


2) $\frac{3}{5} \times 3 =$



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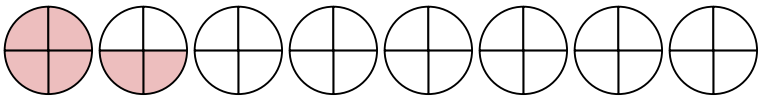

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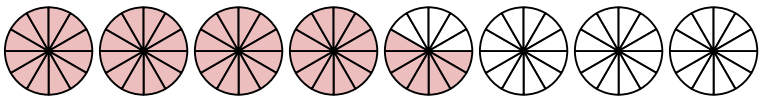

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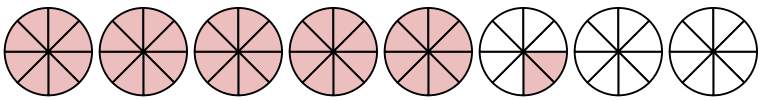

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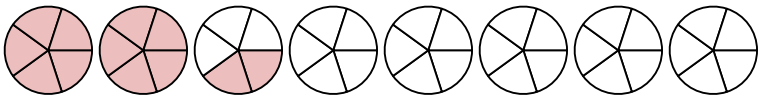

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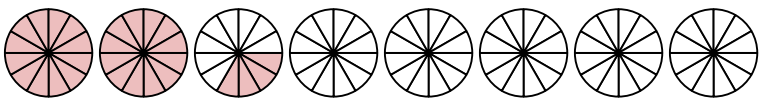

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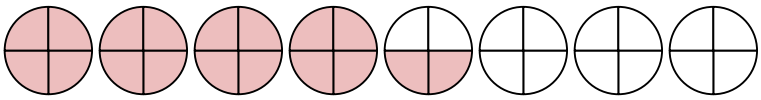

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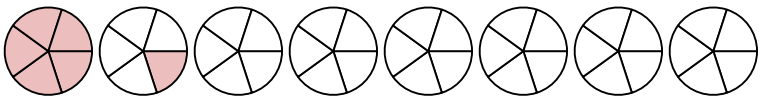

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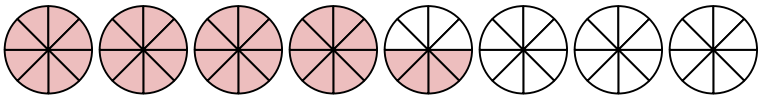

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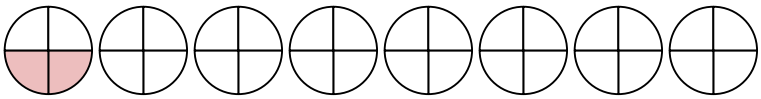

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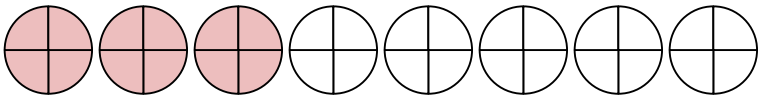

Answers

1. $1\ {}^{0}/_{8}$
2. $1\ {}^{4}/_{5}$
3. $1\ {}^{2}/_{4}$
4. $4\ {}^{7}/_{12}$
5. $5\ {}^{2}/_{8}$
6. $2\ {}^{2}/_{5}$
7. $2\ {}^{4}/_{12}$
8. $4\ {}^{2}/_{4}$
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