Multiplying Fractions by Whole Numbers (visual)

Name:

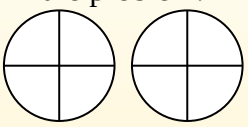
Use the visual model to solve each problem.

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

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:
$^{2}/_{4} + {}^{2}/_{4} + {}^{2}/_{4}$

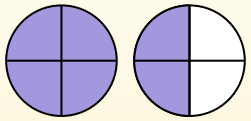
$^{2}/_{4} \times 3 =$

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

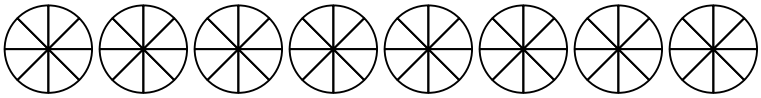


$^{2}/_{4} \times 3 = 1\ {}^{2}/_{4}$

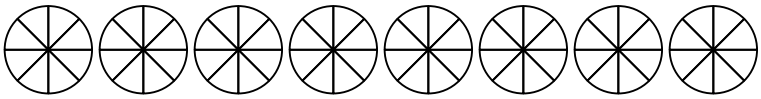
After shading it in we can see why 2/4 three times is equal to 1 whole and $^{2}/_{4}$.



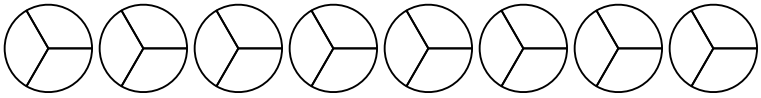
1) $\frac{6}{8} \times 3 =$



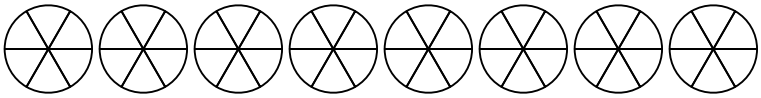
2) $\frac{7}{8} \times 3 =$



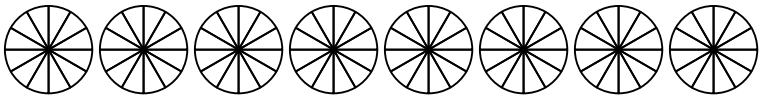
3) $\frac{2}{3} \times 2 =$



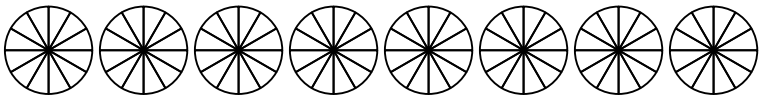
4) $\frac{4}{6} \times 7 =$



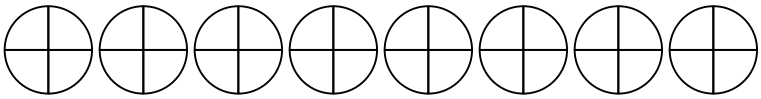
5) $\frac{9}{12} \times 3 =$



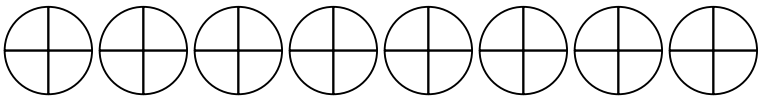
6) $\frac{7}{12} \times 4 =$



7) $\frac{1}{4} \times 5 =$



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



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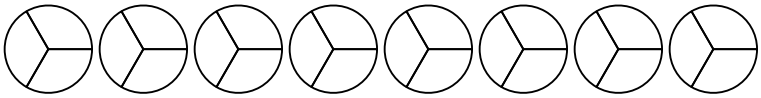
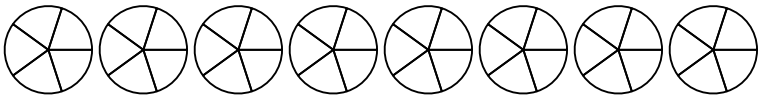
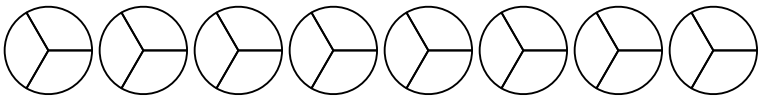


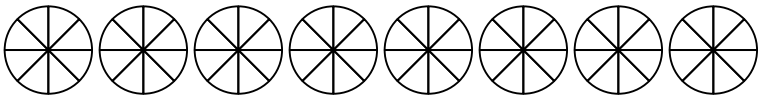
10) $\frac{1}{5} \times 2 =$



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



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



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								

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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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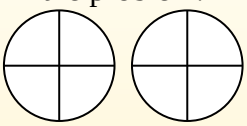

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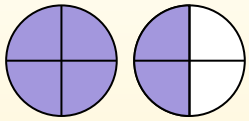

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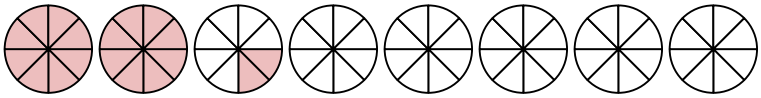

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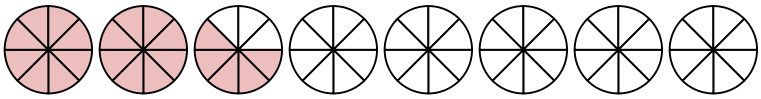

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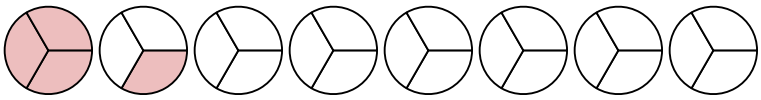

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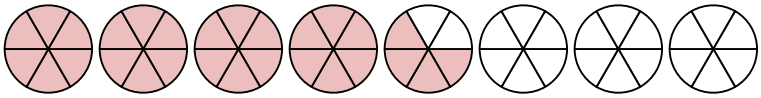

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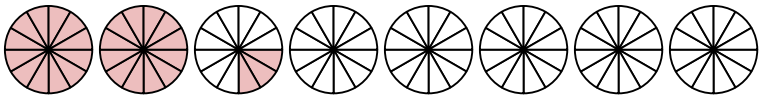

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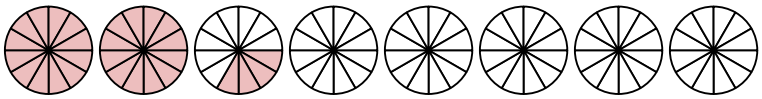

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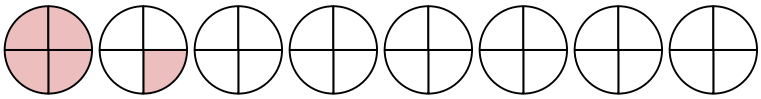

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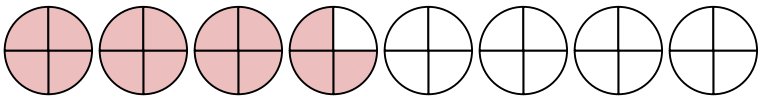

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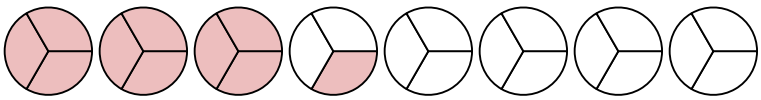

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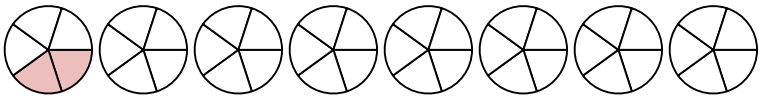

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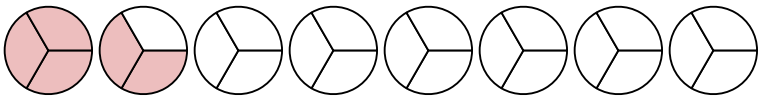

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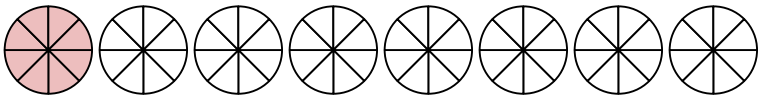

Answers

1. $2^{2}/_{8}$
2. $2^{5}/_{8}$
3. $1^{1}/_{3}$
4. $4^{4}/_{6}$
5. $2^{3}/_{12}$
6. $2^{4}/_{12}$
7. $1^{1}/_{4}$
8. $3^{3}/_{4}$
9. $3^{1}/_{3}$
10. $^{2}/_{5}$
11. $1^{2}/_{3}$
12. $1^{0}/_{8}$

1-10	92	83	75	67	58	50	42	33	25	17
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