

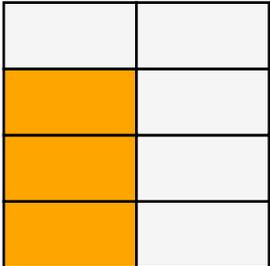
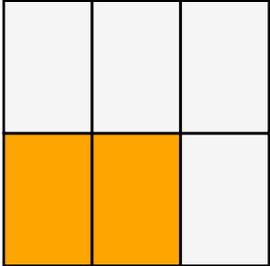
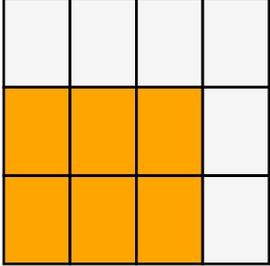
I Love Math – Lesson 11: Multiplying Fractions

Website: <https://ilovemath.live>

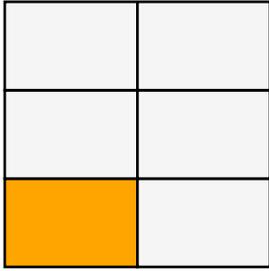
Discussion

When multiplying fractions, multiply the numerators together and multiply the denominators together. This gives the new fraction. Area models can help visualize the multiplication of fractions.

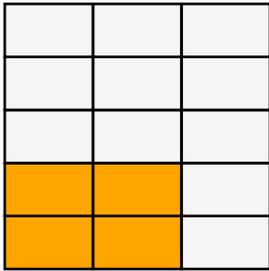
Examples (Answers shown for learning)

 <p>A 2x4 grid representing the product of 1/2 and 3/4. The top row is divided into two equal halves. The bottom row is divided into four equal quarters. The left half of the grid (the first two columns) is shaded orange, representing 1/2. The top three-quarters of the grid (the top three rows) are shaded light gray, representing 3/4. The intersection of these two shaded regions, which is the top-left 3/8 of the grid, is shaded a darker orange, representing the product 3/8.</p>	$1/2 \times 3/4 = 3/8$
 <p>A 2x3 grid representing the product of 2/3 and 1/2. The top row is divided into three equal thirds. The bottom row is divided into two equal halves. The left two-thirds of the grid (the first two columns) are shaded orange, representing 2/3. The top half of the grid (the top row) is shaded light gray, representing 1/2. The intersection of these two shaded regions, which is the top-left 2/6 of the grid, is shaded a darker orange, representing the product 2/6, which simplifies to 1/3.</p>	$2/3 \times 1/2 = 2/6 = 1/3$
 <p>A 2x4 grid representing the product of 3/4 and 2/3. The top row is divided into four equal quarters. The bottom row is divided into two equal halves. The left three-quarters of the grid (the first three columns) are shaded orange, representing 3/4. The top two-thirds of the grid (the top two rows) are shaded light gray, representing 2/3. The intersection of these two shaded regions, which is the top-left 6/12 of the grid, is shaded a darker orange, representing the product 6/12, which simplifies to 1/2.</p>	$3/4 \times 2/3 = 6/12 = 1/2$

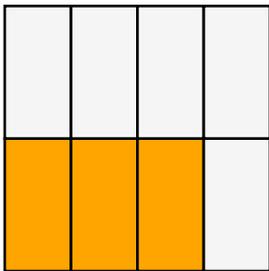
Quiz – Multiply the Fractions



Answer: _____



Answer: _____



Answer: _____

Answer Key (Quiz)

1) $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

2) $\frac{2}{3} \times \frac{2}{5} = \frac{4}{15}$

3) $\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$