

Guided Notes

4.3 Multiply Fractions (6.NS.1)

Rules

- 1.) Multiply the numerators.
- 2.) Multiply the denominators.
- 3.) Simplify, if needed.

Simplify Before Multiplying

If the numerators and the denominators have a common factor you can simplify before you multiply.

Remember that factors are "two or more numbers that are multiplied together to form a product."

Guided Practice: Multiply. Write in simplest form.

1.) $\frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$

2.) $\frac{2}{3} \times \frac{4}{5} = \frac{8}{15}$

3.) $\frac{4}{5} \times \frac{10}{1} = \frac{40}{5} = 8$

4.) $\frac{3}{4} \times \frac{12}{1}$

$\frac{3}{\cancel{4}^1} \times \frac{\cancel{12}_3}{1} = \frac{9}{1} = 9$

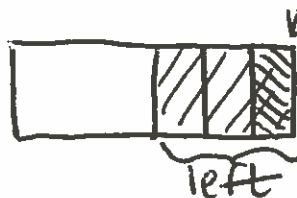
5.) $\frac{\cancel{1}^1}{\cancel{10}_2} \times \frac{\cancel{4}^1}{\cancel{2}} = \frac{1}{4}$

6.) $\frac{\cancel{2}^1}{\cancel{8}_4} \times \frac{\cancel{6}^1}{\cancel{4}_2} = \frac{1}{2}$

$\frac{1}{2}$

- 7.) Rick has $\frac{1}{2}$ of a foot-long sub left from yesterday. He ate $\frac{1}{3}$ of the ~~leftover~~ sandwich as a snack. What fraction of the entire sandwich did he eat as a snack? **ate**

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



He ate $\frac{1}{6}$ of the entire sandwich.

Building on Essential Question - If two positive fractions are less than 1, why is their product also less than 1? **A number multiplied by 1 is itself. So, if you multiply by a number less than 1, it's going to be**

Rate Yourself - Are you ready to move on? Shade the section that applies. **Smaller.**



*** When multiplying by a number less than 1, you only want PART of that number.**