



## $3 \mathcal{D}$ printing tecfinology aims students

 understanding maths and recycling procedureO2_1st Curricula of Maths. Fractions Mutiltiply fractions

## Outline

- Mutiply Fractions
- To Remember ....
- Activities
- Videos


## MULTIPLY and DIVIDE FRACTIONS

There are 3 simple steps to multiply fractions.

1. Multiply the numerators.
2. Multiply the denominators.
3. Simpify the fraction if needed.

## Example

Do you see that half of two-fifths is two-tenths?
Do you also see that two-tenths is simpler as one-fifth?
2. Multiply the denominators.


## Students Print

$\checkmark 1$ circle
$\checkmark \quad 5$ equal parts of the circle
$\checkmark \quad 10$ equal parts of the circle

2emo


To multiply fractions with whole numbers..

1. Make the whole number a fraction, by putting it over 1.
2. Multiply the two fractions.

## Example

a. $7 \times \frac{2}{5}=\frac{14}{5}=2 \frac{4}{5}$
b. $1 \frac{1}{2} \times 2 \frac{1}{5}=\frac{3}{2} \times \frac{11}{5}=\frac{33}{10}=3 \frac{3}{10}$

To multiply mixed fractions. 2

1. Converrt mixed fractions into memb improper fractions.
2. Multiply the two fractions.

3. $\frac{7}{9} \times \frac{1}{4}=$
2 $\frac{1}{4} \times \frac{2}{9}=$
$\frac{2}{6} \times \frac{6}{8}=$
4 $\frac{4}{5} \times \frac{2}{8}=$
$\frac{5}{5} \times \frac{3}{5}=$
(5) $\frac{2}{3} \times \frac{2}{4}=$

## ACTIVITY 1

Multiply the fractions
$\frac{2}{8} \times \frac{2}{4}=$
(1) $\frac{2}{3} \times \frac{7}{9}=$

- $\frac{1}{3} \times \frac{4}{8}=$
and simplify the result.
$\frac{3}{6} \times \frac{1}{9}=$
11 $\frac{6}{8} \times \frac{4}{8}=$

12. $\frac{4}{6} \times \frac{2}{3}=$
13 $\frac{1}{3} \times \frac{4}{6}=$
${ }^{14} \frac{5}{9} \times \frac{2}{5}=$
15 $\frac{1}{3} \times \frac{3}{4}=$

$$
\begin{aligned}
& =\frac{1}{2} \times 4=\square \\
& \text { * } \frac{1}{6} \times \square=3 \\
& =9 \times \frac{2}{3}=\square \\
& \frac{7}{2} \times 8=\square \\
& \therefore 44 \times \square=4 \\
& \therefore 12 \times \square=\frac{4}{7} \\
& -\square \times \frac{7}{6}=21 \\
& \text { te } \\
& \square \times 5=\frac{15}{8} \\
& 4 \times \frac{3}{4}=\frac{45}{2}
\end{aligned}
$$

## RULE for Dividing Fractions



## Example

a. $\frac{2}{7} \div \frac{3}{5}=\frac{2}{7} \times \frac{5}{3}=\frac{10}{21}$
b. $\frac{1}{2} \div 4=\frac{1}{2} \times \frac{1}{4}=\frac{1}{8}$


1. $\frac{1}{2} \times \frac{5}{4}$
2. $\frac{1}{4} \times \frac{5}{3}$
3. $\frac{10}{3} \times \frac{11}{6}$
4. $\frac{1}{6} \div \frac{8}{11}$
5. $\frac{11}{2} \div \frac{1}{2}$
6. $\frac{1}{2} \div \frac{1}{2}$

## ACTIVITY 3

3. $\frac{1}{3} \div \frac{13}{9}$
4. $\frac{4}{3} \div \frac{11}{12}$
5. $\frac{14}{9} \times \frac{7}{10}$

Multiply / divide the fractions and simplify the result.
4. $\frac{13}{4} \div \frac{1}{2}$
5. $\frac{17}{6} \div \frac{3}{5}$
9. $\frac{1}{3} \times \frac{20}{9}$
10. $\frac{13}{7} \times \frac{14}{11}$
14. $\frac{15}{8} \times \frac{7}{6}$
15. $\frac{3}{2} \div \frac{4}{9}$

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## Videos

- https://www.youtube.com/watch?v=LU3R2J

How to Multiply Fractions


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- https://www.youtube.com/watch?v=x6xtezh uCZ4
- https://www.youtube.com/watch?v=ItKaGC8 fd4

