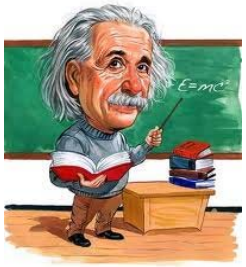
MasterMath

Number Sense

MULTIPLYING WITH FRACTIONS



You don't have to be Einstein to work with fractions.

You just need to remember a couple rules

Reminder!

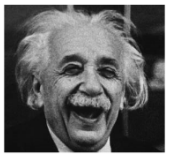
$\frac{1}{2}$

Numerator

Denominator

Fractions x Fractions

Multiply the two Denominators, and the two Numerators, and then Simplify



$$\frac{1}{2} \times \frac{3}{5} =$$

$$\frac{1 \times 3}{2 \times 5} = \frac{3}{10}$$

MULTIPLYING WITH FRACTIONS

You try it!

½ x ⅛

MULTIPLYING WITH FRACTIONS

You try it!

½ x ⅛ =

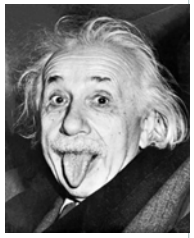
$$\frac{1 \times 1}{2 \times 8} = \frac{1}{16}$$

MULTIPLYING WITH FRACTIONS

Fractions x Whole Numbers

Multiply the Whole Number times the Numerator, and then Simplify

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

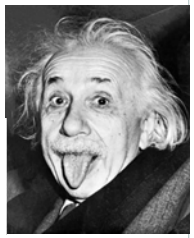


MULTIPLYING WITH FRACTIONS

Fractions x Whole Numbers

Multiply the Whole Number times the Numerator, and then Simplify

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



MULTIPLYING WITH FRACTIONS

You try it!

6 x 2/3

MULTIPLYING WITH FRACTIONS

You try it!

6 x 2/3 =

$\frac{6}{1} \times \frac{2}{3} = \frac{12}{3} = 4$

or

$\frac{6 \times 2}{3} = \frac{12}{3} = 4$

MULTIPLYING WITH FRACTIONS

Fractions x Mixed Numbers

Convert the Mixed Number to an Improper Fraction:

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

$= \frac{3 \times 5}{1 \times 5} = \frac{15}{5}$

3 over 6 ...

$\frac{3 \times 6}{1 \times 6} = \frac{18}{6}$

$3\frac{2}{6} = \frac{18}{6} + \frac{2}{6} = \frac{20}{6}$

MULTIPLYING WITH FRACTIONS

Fractions x Mixed Numbers

Convert the Mixed Number to an Improper Fraction:

$2\frac{1}{2} \times \frac{2}{3} = \left(2 + \frac{1}{2}\right) \times \frac{2}{3} = \left(\frac{2}{1} + \frac{1}{2}\right) \times \frac{2}{3}$

$= \left(\frac{2 \times 2}{1 \times 2} + \frac{1}{2}\right) \times \frac{2}{3} = \left(\frac{4}{2} + \frac{1}{2}\right) \times \frac{2}{3} =$

$\frac{5}{2} \times \frac{2}{3} = \frac{10}{6} = \frac{5}{3} = 1\frac{2}{3}$

MULTIPLYING WITH FRACTIONS

You try it!

1 ½ x 1/2

MULTIPLYING WITH FRACTIONS

You try it!

1 ½ x 1/2

$1\frac{1}{2} \times \frac{1}{2} = \left(\frac{2}{2} + \frac{1}{2}\right) \times \frac{1}{2} =$

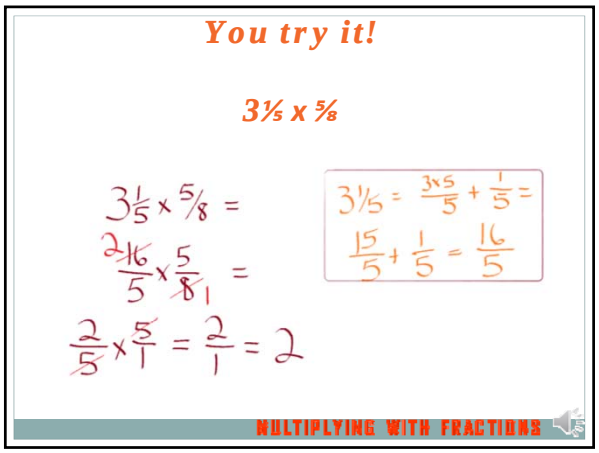
$\frac{3}{2} \times \frac{1}{2} = \frac{3}{4}$

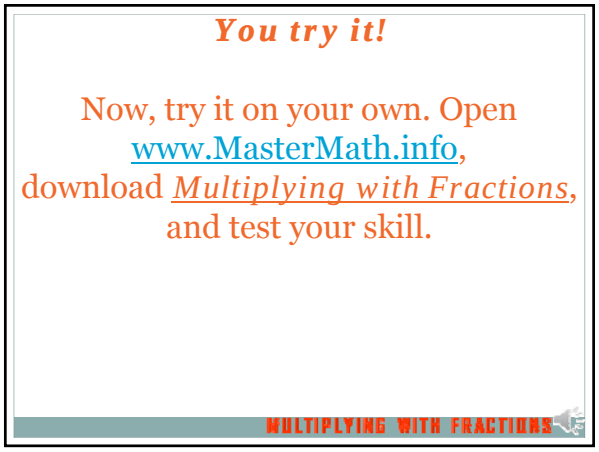
MULTIPLYING WITH FRACTIONS

You try it!

3⅕ x ⅝

MULTIPLYING WITH FRACTIONS


You try it!
3⅕ x ⅝
3⅕ x ⅝ =
16/5 x 5/8 =
2/5 x 5/1 = 2/1 = 2
3⅕ = 3x5/5 + 1/5 =
15/5 + 1/5 = 16/5
MULTIPLYING WITH FRACTIONS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