

SESSION: 4

CLASS: V

SUBJECT: MATHEMATICS

CHAPTER NUMBER: 9

CHAPTER NAME: FRACTION

SUB-TOPIC: MULTIPLICATION OF FRACTIONS

EXERCISE 9 C



CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE:

Enable the students

- To multiply a fraction by another fraction.
- To reduce to their lowest term



Multiplication of Fractions



Multiply the numerators

$$\frac{2}{5} \times \frac{3}{4} = \frac{6}{1}$$

Multiply the denominators

$$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$$

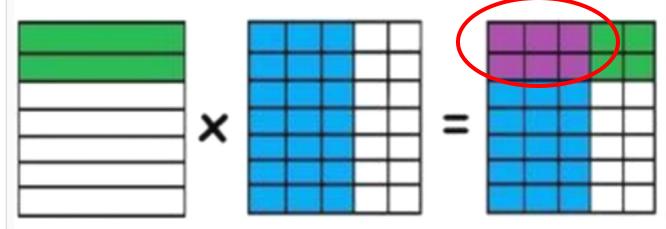
Reduce the fraction if necessary

$$\frac{6}{20} = \boxed{\frac{3}{10}}$$





MultiPlying Fractions



 $\frac{2}{7} \times \frac{3}{5} = \frac{6}{35}$







Multiplication of Fractions



Example: 1

$$\frac{8}{15} \times \frac{2}{3}$$

$$= \frac{8 \times 2}{15 \times 3} = \frac{16}{45}$$

$$\frac{9}{16} \times \frac{8}{27}$$

$$= \frac{{}^{1} \cdot 9 \times 8^{1}}{{}^{2} \cdot 16 \times 27} = \frac{1}{6}$$





Multiplication of Fractions



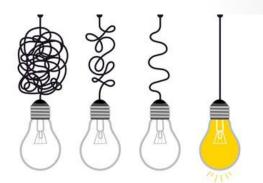
$$3\frac{5}{7} \times 2\frac{4}{5}$$

$$= \frac{26}{7} \times \frac{14}{5}$$

$$=$$
 $\frac{52}{5}$ $=$ $10\frac{2}{5}$









$$2\frac{3}{5}\times1\frac{1}{4}\times\frac{8}{13}$$

$$=\frac{113}{15}\times\frac{5}{4}\times\frac{8^2}{13}$$

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

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







$$\frac{3}{4} \times \frac{5}{7} \times \frac{9}{11}$$

$$\frac{3 \times 5 \times 9}{4 \times 7 \times 11} = \frac{135}{308}$$











1. Multiply



a.
$$\frac{5}{28} \times 7$$

$$= \frac{5 \times 7}{28 \times 1} = \frac{5}{4} = 1 \frac{1}{4}$$



b.
$$\frac{20}{21} \times \frac{7}{10} \times \frac{1}{2}$$

$$= \frac{20}{21} \times \frac{7}{10} \times \frac{1}{2} = \frac{1}{3}$$



1. Multiply

c.
$$\frac{4}{5}$$
 × $\frac{11}{16}$ × $\frac{5}{8}$

$$= \frac{\cancel{4} \times 11 \times \cancel{5}}{\cancel{5} \times 16 \times 8} = \frac{11}{32}$$

d.
$$\frac{17}{24} \times \frac{3}{34} \times \frac{6}{7}$$

$$= \underbrace{\frac{\cancel{31} \times \cancel{3} \times \cancel{8}}{\cancel{24} \times \cancel{34} \times 7}}_{\mathbf{2}} = \underbrace{\frac{3}{56}}_{\mathbf{56}}$$







1. Multiply



e.
$$\frac{5}{9}$$
 × $\frac{5}{12}$ × $\frac{24}{25}$

$$= \underbrace{5 \times 5 \times 24^{2}}_{9 \times 12 \times 25} = \underbrace{\frac{2}{9}}_{9}$$



f.
$$\frac{4}{5}$$
 × 1 $\frac{6}{7}$ × 0 = 0



1. MULTIPLY

g.
$$\frac{1}{4} \times 2\frac{1}{2} \times \frac{4}{5} \times 3\frac{1}{2} \times \frac{4}{5}$$

$$= \frac{1}{\cancel{A}} \times \frac{\cancel{5}}{\cancel{2}} \times \frac{\cancel{A}}{\cancel{5}} \times \frac{7}{\cancel{2}} \times \frac{\cancel{A}}{5}$$

$$=\frac{7}{5}=1\frac{2}{5}$$









> Complete exercise 9 C in the notebook.





Students are able to multiply a fraction by another fraction and reduce the same to its lowest term.



THANKING YOU ODM EDUCATIONAL GROUP

