



Multiplying Fractions Through Space

Multiplying Fractions



Name:

Date:



Section 1: Fraction Times Whole Number

Multiply the fraction by the whole number.

Example

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

1) $\frac{1}{2} \times 8$

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

3) $\frac{2}{5} \times 10$

4) $\frac{5}{6} \times 12$

5) $\frac{2}{3} \times 6$





Section 2: Fraction Times Fraction

Multiply the tops. Multiply the bottoms.

Example

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

1) $\frac{1}{2} \times \frac{1}{4} =$ simplified:

2) $\frac{1}{3} \times \frac{1}{5} =$ simplified:

3) $\frac{2}{3} \times \frac{1}{5} =$ simplified:

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

5) $\frac{2}{5} \times \frac{3}{7} =$ simplified:





Section 3: Simplify the Product



Multiply, then write the answer in simplest form.

Example

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

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

Product:

Simplified Answer:

2) $\frac{3}{4} \times \frac{2}{3}$

Product:

Simplified Answer:

3) $\frac{2}{5} \times \frac{5}{6}$

Product:

Simplified Answer:

4) $\frac{3}{8} \times \frac{4}{9}$

Product:

Simplified Answer:

5) $\frac{5}{6} \times \frac{3}{10}$

Product:

Simplified Answer:





Section 4: Space Word Problems



Read the story. Multiply and simplify.

Example

A rocket has $\frac{3}{4}$ of a tank of fuel. It uses $\frac{1}{2}$ of that fuel. How much of a full tank does it use? $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$ of a tank.

- 1) An alien has $\frac{2}{3}$ of a bag of space cookies and eats $\frac{1}{2}$ of them. What fraction of the whole bag did it eat?

- 2) A flying saucer travels $\frac{3}{5}$ of a mile each minute. How many miles does it travel in 10 minutes?

- 3) A moon rock weighs $\frac{3}{4}$ of a pound. A scientist uses $\frac{2}{3}$ of it for tests. How many pounds does the scientist use?

- 4) A space station garden is $\frac{7}{8}$ of an acre. The crew plants $\frac{2}{3}$ of it with moon beans. What fraction of an acre is planted?





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Answer Key

Teacher Copy

Section 1:

- 1) 4 2) 6 3) 4 4) 10 5) 4

Section 2:

- 1) $\frac{1}{8}$ 2) $\frac{1}{15}$ 3) $\frac{2}{15}$ 4) $\frac{3}{8}$ 5) $\frac{6}{35}$

Section 3 (product, simplified):

- 1) $\frac{2}{6} = \frac{1}{3}$ 2) $\frac{6}{12} = \frac{1}{2}$ 3) $\frac{10}{30} = \frac{1}{3}$
4) $\frac{12}{72} = \frac{1}{6}$ 5) $\frac{15}{60} = \frac{1}{4}$

Section 4:

- 1) $\frac{2}{6} = \frac{1}{3}$ of the bag 2) $\frac{30}{5} = 6$ miles
3) $\frac{6}{12} = \frac{1}{2}$ pound 4) $\frac{14}{24} = \frac{7}{12}$ of an acre.

