6th Grade
Multiplying Fractions

Multiplying Fractions

- change to improper if necessary
- multiply straight across
- reduce if necessary

1) $\frac{2}{3} \times \frac{9}{10}$ $\frac{18}{30} \div \frac{6}{6} = \frac{3}{5}$

$\frac{18}{30} \div \frac{2}{2} = \frac{9}{15} \div \frac{3}{3} = \frac{3}{5}$

2) $\frac{6}{1} \times \frac{3}{5} = \frac{18}{5}$

3) $2\frac{3}{4} \cdot \frac{2}{3} = \frac{11}{4} \cdot \frac{2}{3} = \frac{22}{12} \div \frac{2}{2} = \frac{11}{6}$

Multiplying Fractions - Method 2

- change mixed numbers to improper fractions
- divide out common factors in the #'s diagonal from each other
- then multiply straight across.

4) $2\frac{2}{3} \cdot \frac{15}{8} = \frac{8}{3} \cdot \frac{15}{8}$ $\frac{1}{1} \cdot \frac{5}{1} = \frac{5}{1}$

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5) $\frac{10}{1} \cdot \frac{3}{2} = \frac{5}{1} \cdot \frac{3}{1} = \frac{15}{1} = 15$

Try this:

5) $1\frac{7}{8} - \frac{1}{4}$

6) $\frac{2}{3} + \frac{9}{8}$

Method 1

7) $\frac{3}{1} \times \frac{4}{15} = \frac{12}{15} = \frac{4}{5}$

Method 2

8) $\frac{3}{4} \times \frac{6}{12} = \frac{1}{2} \cdot \frac{3}{4} = \frac{3}{8}$

Homework

Worksheet