

4.4 Multiply Mixed Numbers (6.NS.1) Guided Notes

Rules

- 1.) Change mixed number or numbers to an improper fraction.
- 2.) Multiply numerator to numerator.
- 3.) Multiply denominator to denominator.
- 4.) Simplify, if needed. (Change to a mixed number, if needed).

Changing a Mixed Number to an Improper Fraction

Multiply the denominator to the whole number.

Add the numerator to the product.

The sum is your new numerator.

The denominator stays the same.

$$3\frac{1}{4} = \frac{13}{4}$$

+
↙ ↘
↕
x

Guided Practice:

1.) $\frac{1}{2} \times 2\frac{3}{8}$

$$\frac{1}{2} \times \frac{19}{8} = \frac{19}{16}$$

$$1\frac{3}{16}$$

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

$$2\frac{7}{4} \times \frac{14}{5} = \frac{49}{10}$$

$$4\frac{9}{10}$$

3.) $1\frac{2}{3} \times 2\frac{4}{7}$

$$1\frac{5}{3} \times \frac{18}{7} = \frac{30}{7}$$

$$4\frac{2}{7}$$

Partner Talk

Melanie is training for a track meet. She ran $2\frac{1}{4}$ miles 5 times in a week. How far did Melanie run

this week?

$$2\frac{1}{4} \times 5 = \frac{9}{4} \times \frac{5}{1} = \frac{45}{4} = 11\frac{1}{4}$$

Melanie ran $11\frac{1}{4}$ miles this week.

Building on the Essential Question - How do you multiply mixed numbers?

#1 Change the mixed #s to improper fractions.

#2 multiply numerators / multiply denominators

#3 Simplify (if needed)

Rate Yourself - Check the one that applies

_____ I understand how to multiply mixed numbers.

_____ I still have some questions about multiplying mixed numbers.