

Grade 5 Unit 6

Lesson 19

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Unit 6 Lesson 19: Compare to 1

WU What Do You Know About $\frac{15}{14} \times \frac{23}{30}$? (Warm up)

Student Task Statement

What do you know about $\frac{15}{14} \times \frac{23}{30}$?

1 Compare Fraction Products on the Number Line

Student Task Statement

1. Match the expressions and number lines that show the same value.

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

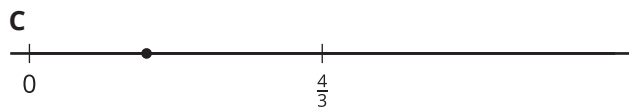
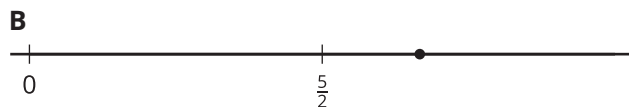
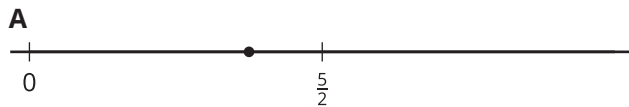
$\frac{3}{4} \times \frac{5}{2}$

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

$(1 + \frac{1}{3}) \times \frac{5}{2}$

$(1 - \frac{3}{5}) \times \frac{4}{3}$

$(1 - \frac{1}{4}) \times \frac{5}{2}$



2. Choose one of the expressions from each set and explain whether the value is greater than or less than the second factor.

2 True Statement

Student Task Statement

1. Rewrite each expression as a sum or difference of 2 products.

a. $(1 - \frac{2}{5}) \times \frac{4}{7}$

b. $(1 + \frac{1}{5}) \times \frac{4}{7}$

c. $(1 - \frac{3}{8}) \times \frac{4}{7}$

d. $(1 + \frac{1}{8}) \times \frac{4}{7}$

2. Fill in each blank with < or > to make the inequality true.

a. $(1 - \frac{2}{5}) \times \frac{4}{7}$ _____ $\frac{4}{7}$

b. $(1 + \frac{1}{5}) \times \frac{4}{7}$ _____ $\frac{4}{7}$

c. $(1 - \frac{3}{8}) \times \frac{4}{7}$ _____ $\frac{4}{7}$

d. $(1 + \frac{1}{8}) \times \frac{4}{7}$ _____ $\frac{4}{7}$

3. Describe the value of the product when $\frac{4}{7}$ is multiplied by a fraction greater than 1. Explain your reasoning.

4. Describe the value of the product when $\frac{4}{7}$ is multiplied by a fraction less than 1. Explain your reasoning.