Algebra 1 9/20

Warm Up IXL 5th Grade O.4

0-5 Multiplying and Diving Rationals Numbers

I can multiply and divide rational numbers

Ex. 1 Find each product or quotient.

A. $7.2(-0.2)$

-1.44

B. $-23.94 \div (-10.5)$

2.28

I can multiply and divide rational numbers

Ex. 2 Find each product.

A. $\frac{2}{5} \cdot \frac{1}{3} = \frac{2}{15}$

B. $\frac{3}{5} \cdot 1\frac{1}{2} = \frac{3}{5} \cdot \frac{3}{2} = \frac{9}{10}$

C. $\frac{1}{4} \cdot \frac{2}{9} = \frac{2 \div 2}{36 \div 2} = \frac{1}{18}$

I can multiply and divide rational numbers

Ex. 3 Find $\left(-\frac{3}{4}\right)\left(\frac{3}{8}\right)$

$-\frac{9}{32}$

Multiplicative inverse/Reciprocals

Two numbers who product is 1

2 and $\frac{1}{2}$ $\qquad$ $-\frac{3}{4}$ and $-\frac{4}{3}$

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Ex. 4 Name the reciprocal of each number

A. $\frac{3}{8}$ $\frac{8}{3}$

B. $2\frac{4}{5}$ $\frac{14}{5}$ $\frac{5}{14}$

I can multiply and divide rational numbers

Ex. 5 Find each quotient

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A. $\frac{1}{3} \div \frac{1}{2}$

$\frac{1}{3} \cdot \frac{2}{1} = \frac{2}{3}$

B. $\frac{3}{8} \div \frac{2}{3}$

$\frac{3}{8} \cdot \frac{3}{2} = \frac{9}{16}$

C. $\frac{3}{4} \div 2\frac{1}{2}$ $\frac{5}{2}$

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

$\frac{3}{10}$

D. $-\frac{1}{5} \div \left(-\frac{3}{10}\right)$

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

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I can multiply and divide rational numbers

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