

Lesson 2.4 PWB evens Answers

2) $\frac{77}{90}$
 $\frac{-31}{88}$
 4) $8\frac{8}{5}$
 $-1\frac{2}{5}$
 6) $-4\frac{12}{21}$
 8) $3\frac{5}{12}$
 10) $-2\frac{23}{40}$
 12)
 14)
 16)
 18)
 20)
 22)
 24)

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2.5 Lesson 2.5
 Multiplying Fractions

NS 1.2 Multiply rational numbers (fractions) and take positive whole numbers to whole number powers

Key $\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$

$\frac{-3}{5} \cdot \frac{5}{9} = \frac{-1 \cdot 3 \cdot 5}{5 \cdot 9} = \frac{-1 \cdot \cancel{3} \cdot \cancel{5}}{\cancel{5} \cdot 3 \cdot 3} = \frac{-1}{3}$

On your own, multiply:
 $\frac{-5}{12} \cdot \frac{3}{10} = \frac{-1 \cdot 5 \cdot 3}{4 \cdot 2 \cdot 2 \cdot 5} = \frac{-1 \cdot \cancel{5} \cdot 3}{4 \cdot 2 \cdot 2 \cdot \cancel{5}} = \frac{-3}{8}$

$-\frac{5}{6} \cdot \left(-\frac{7}{9}\right)$

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KEY CONCEPT For Your Notebook

Inverse Property of Multiplication

Words The product of a nonzero number and its multiplicative inverse is 1.

Algebra $a \cdot \frac{1}{a} = \frac{1}{a} \cdot a = 1$, where $a \neq 0$

Example $8 \cdot \frac{1}{8} = 1$ $-\frac{2}{3} \cdot \frac{3}{2} = \frac{1 \cdot 2 \cdot 3}{3 \cdot 2} = 1$

On your own, multiply:
 $\frac{1}{4} \cdot \frac{4}{1} = 1$ $7 \cdot \frac{1}{7} = 1$ CPM
 $7 \cdot \frac{3}{5} = \frac{21}{5}$ $1 \cdot \frac{3}{5} = \frac{3}{5}$ Mult. Inv.
 Inv. Prop. Id. Prop.

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Multiplying mixed numbers:

$3\frac{1}{3} \cdot 10\frac{2}{5}$

First, convert both mixed numbers to improper fractions:
 $\frac{10}{3} \cdot \frac{52}{5} = \frac{10 \cdot 52}{3 \cdot 5} = \frac{520}{15}$

Second, multiply the numerators together and then the denominators together:

Cancel out common factors and simplify:

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Evaluate x^2y ; when $x = 2\frac{5}{2}$, $y = 3\frac{1}{3}$

$\left(\frac{5}{2}\right)^2 \left(\frac{10}{3}\right)$

$\left(\frac{5}{2}\right) \left(\frac{5}{2}\right) \left(\frac{10}{3}\right) = \frac{125}{6}$
 $= 20\frac{5}{6}$

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Homework: Lesson 2.5
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