Pre-Algebra

Lesson 4.3

Equivalent Fractions

Goal: to write equivalent fractions

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What does it mean if two things are equivalent to each other?

Same value

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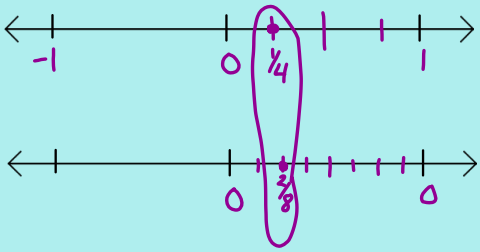
Put the following on the number lines:

1/4 .25



2/8 .25

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$\frac{a}{b}$ → numerator / denominator

What is a called?

What is b called?

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Write 2 fractions that are equivalent to $\frac{15}{18} \cdot \frac{10}{10} = \frac{150}{180}$

$\frac{15 \div 3}{18 \div 3} = \frac{5}{6}$

15 → 1 3 5 15

18 → 1 2 3 6 9 18

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A fraction is in simplest form when the numerator and denominator are relatively prime.

Simplify: 4/8 14/35

$\frac{4 \div 2}{8 \div 2} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$ $\frac{14 \div 7}{35 \div 7} = \frac{2}{5}$

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Simplify:

$$\frac{16bc^3}{24b^2c} = \frac{2bc^3}{3b^2c} = \frac{2c^2}{3b}$$

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Hwk:

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#12, 16, 20 - 36 evens,

40, 42, 46 ,49-53 all, 55, 56

64, 65

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