Ch. 3 Key Ideas

Review for Portions and Integers Test

Directions: *Use the "Key Ideas" from Chapter 3 to help guide your studying. Complete the examples and create some of your own to help you practice.*

Multiplicative Identity

Page 61: Multiplying by 1 leaves a number the same.

Page 62: Multiplying any fraction by a GIANT ONE will create a new fraction equivalent (equal) to the original fraction.

Ⓐ $\frac{1}{5} \times \frac{\square}{\square} = \frac{\quad}{100}$ Ⓑ $\frac{25}{40} \div \frac{\square}{\square} = \frac{5}{\quad}$ Ⓒ Try creating your own example

Converting between fractions, decimals & percents

Page 63: Percents can be written as fractions "out of 100"

Page 64: Place value can be used to help determine how a number can be written as a decimal.

Page 65: You can write percents as fractions and decimals too!

Page 66: Use the denominator (bottom) of a fraction to determine place value for decimals.

Page 69: For any fraction, you can divide to convert to a decimal.

ex $43\% = \frac{43}{100} = 0.43$

Ⓐ $7\% =$

Ⓑ $112\% =$

Adding & Subtracting Decimals

Page 67: The value of number depends on where it's located so you must line up decimals when you add or subtract.

ex $0.4 + 0.26 = \begin{array}{r} 0.40 \\ +\ 0.26 \\ \hline 0.66 \end{array} = 0.66$

Ⓐ $1.13 + 0.2 =$

Ⓑ $0.47 - 0.3 =$

Integers

Page 73: Think about which direction is (+) and which is (-).

Page 75: Qualities of Positives and Negatives.

Ⓐ $4 + 3 - 5 =$

Ⓑ $1 - 5 + 2 =$

Try using a number line

Absolute Value

Page 76: Absolute value is a number's distance from zero (which is always positive).

ex What is the distance of -5 from zero? $|-5| = 5$

Ⓐ Is -7 or 10 further from zero? Use an absolute value statement to show your thinking.

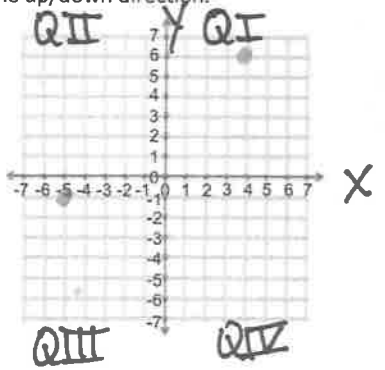
Coordinate Graph

Page 77: A coordinate plane starts at the Origin (0,0) and has four quadrants. Coordinates (X,Y) give the location of a point on the coordinate plane. The first value (X) gives the right/left direction and the second value (Y) gives the up/down direction.

Ⓐ Plot the points

A(4, 6)

B(-5, -1)



Ⓑ Plot a point that is 4 units away from point B above. What are the coordinates?

Key Idea Study Guide

Multiplicative Identity: (Giant One)

(A) $\frac{1}{5} \times \boxed{\frac{20}{20}} = \frac{20}{100}$ (B) $\frac{25}{40} \div \boxed{\frac{5}{5}} = \frac{5}{8}$

(C) Students create their own example.

Conversions:

(A) $7\% = \frac{7}{100} = 0.07$ (B) $112\% = \frac{112}{100} = 1.12$

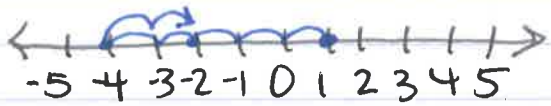
Adding & Subtracting Decimals:

(A) $1.13 + 0.20 = 1.33$ (B) $0.47 - 0.30 = 0.17$

Integers:

(A) $4+3-5=2$

(B) $1-5+2=-2$



Absolute Value:

(A) $|-7| = 7$ 10 is 3 further from zero
$|10| = 10$ than -7.

Coordinate Graph:

(A) Front

(B) Possible Answers: $(-5, 3)$ $(-1, -1)$ $(-5, -5)$ $(-9, -1)$