

Today's Plan:

Learning Target (standard): I will perform operations on rational numbers and simplify the results.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.

NAME _____

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BELL RINGER

1.) Use the distributive property to rewrite the expression without parenthesis.

$$2(3x + 5)$$

$$6x + 10$$

2.) Evaluate $6 + x - 2$ when $x = 3.5$.

$$6 + 3.5 - 2$$

$$9.5 - 2$$

$$7.5$$

3.) Find the sum $5\frac{1}{4} + (-1\frac{3}{4})$.

$$\frac{21}{4} - \frac{7}{4}$$

$$\frac{14}{4} \div 2$$

$$4 \div 2$$

$$= \frac{7}{2}$$

Simplify.

$$2\frac{4}{7} \div \frac{20}{21}$$

$$1\frac{18}{7} \cdot \frac{21}{20} = \frac{27}{10}$$

Simplify.

$$5\frac{2}{3} \div 1\frac{2}{15}$$

$$\frac{17}{3} \div \frac{17}{15}$$

$$1\frac{17}{3} \cdot \frac{15}{17} = \frac{5}{1} = 5$$

Simplify.

$$2\frac{1}{4} + \frac{1}{3} + 2$$

$$\frac{9 \cdot 3}{4} + \frac{1 \cdot 4}{3} + \frac{2 \cdot 12}{1}$$

$$\frac{27}{12} + \frac{4}{12} + \frac{24}{12}$$

$$\frac{55}{12}$$

Simplify.

$$\frac{2}{13} \cdot 3\frac{5}{7} \cdot 4\frac{1}{2}$$

$$\frac{1 \cancel{2}}{1 \cancel{13}} \cdot \frac{\cancel{26}^2}{7} \cdot \frac{9}{\cancel{21}} = \frac{18}{7}$$

Name the subsets of the real numbers that the given belongs in.

43 natural \mathbb{N}
whole
integer \mathbb{Z}
rational \mathbb{Q}
real \mathbb{R}

Name the subsets of the real numbers that the given belongs in.

$\sqrt{49} = 7$ natural \mathbb{N}
whole
integer \mathbb{Z}
rational \mathbb{Q}
real \mathbb{R}

Name the property that is illustrated.

$$3 + (2 + 4) = (3 + 2) + 4$$

Associative
(addition)

Simplify.

$$-7 + (2^2 - 5) + 4$$

$$-7 + (4 - 5) + 4$$

$$-7 - 1 + 4$$

$$-8 + 4$$

$$\textcircled{-4}$$

Simplify.

$$\underline{6} \cdot 3 \div 3 \cdot 3$$

$$18 \div 3 \cdot 3$$

$$6 \cdot 3$$

$$\textcircled{18}$$

Simplify.

$$\underline{-2} + 3 - 5 + 6 + 5 + 4 - 2$$

$$\underline{1} - 5 + 6 + 5 + 4 - 2$$

$$\underline{-4} + 6 + 5 + 4 - 2$$

$$\underline{2} + 5 + 4 - 2$$

$$\underline{7} + 4 - 2$$

$$11 - 2$$

$$\textcircled{9}$$

Simplify.

$$2\frac{1}{2} \cdot 3\frac{3}{15}$$

$$1 \frac{\cancel{8}}{\cancel{2}1} \cdot \frac{\cancel{48}24}{\cancel{15}3} = \textcircled{8}$$

Simplify.

$$\left(3\frac{6}{8} \div 4\frac{2}{4}\right) - \frac{13}{16}$$

$$\left(\frac{30}{8} \div \frac{18}{4}\right) - \frac{13}{16}$$

$$\left(\frac{\cancel{30}^5}{\cancel{2}8} \cdot \frac{\cancel{4}1}{\cancel{18}3}\right) - \frac{13}{16}$$

$$\frac{5 \cdot 8}{6} - \frac{13 \cdot 3}{16}$$

$$\frac{40}{6} - \frac{39}{6}$$

$$\frac{1}{6}$$

Assignment:

TEST tomorrow!

Operations on Real Numbers
Review #1-40

* Show ALL work on:
#16-19,24-28,33,35-38

** You will find this on Google Classroom **

** You will submit this in Google Classroom **