



-Take out your WS from Friday.

Get your book and tear out pages 555-567. Return your book. Complete pages 555-558. You do not have to complete the number lines.

Operations with Decimals test corrections are due tomorrow. If you have them completed, you may turn in today. Staple the corrections on top of the original test.

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Adding and Subtracting Mixed Fractions (A) Answers

Find the value of each expression in lowest terms.

$$1. 2\frac{1}{5} + 1\frac{3}{4} \\ = \frac{79}{20} = 3\frac{19}{20}$$

$$5. 1\frac{1}{2} + 2\frac{3}{5} \\ = \frac{41}{10} = 4\frac{1}{10}$$

$$9. 3\frac{1}{2} - 1\frac{1}{2} \\ = 2$$

$$2. 3\frac{1}{2} - 2\frac{2}{3} \\ = \frac{5}{6}$$

$$6. 3\frac{1}{2} - 2\frac{5}{9} \\ = \frac{17}{18}$$

$$10. 5\frac{1}{2} + 5\frac{1}{4} \\ = \frac{43}{4} = 10\frac{3}{4}$$

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$$3. 3\frac{1}{2} - 3\frac{1}{2} = 0$$

$$7. 2\frac{3}{4} + 1\frac{1}{5} = \frac{79}{20} = 3\frac{19}{20}$$

$$11. 1\frac{10}{11} - 1\frac{1}{3} = \frac{19}{33}$$

$$4. 5\frac{3}{4} - 5\frac{1}{4} = \frac{1}{2}$$

$$8. 3\frac{1}{4} - 2\frac{3}{8} = \frac{7}{8}$$

$$12. 1\frac{5}{12} + 3\frac{1}{3} = \frac{19}{4} = 4\frac{3}{4}$$

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LESSON 19.2 Adding Rational Numbers pg. 556

Adding Rational Numbers with the Same Sign

To add rational numbers with the same sign, apply the rules for adding integers. The sum has the same sign as the sign of the rational numbers.

Reflect

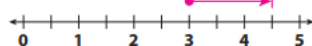
1. Explain how to determine whether to move right or left on the number line when adding rational numbers.

Move to the right if the number you are adding is _____
positive and to the left if the number is negative. _____

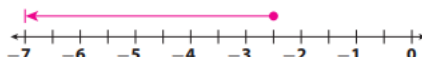
YOUR TURN

Use a number line to find each sum.

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



$$3. -2.5 + (-4.5) = -7$$



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Adding Rational Numbers with Different Signs pg. 557

To add rational numbers with different signs, find the difference of their absolute values. Then use the sign of the rational number with the greater absolute value.

4. Do $-3 + 2$ and $2 + (-3)$ have the same sum? Does it matter if the negative number is the first addend or the second addend?

The order of the addends does not matter when adding a positive and negative rational number.
 $-3 + 2$ and $2 + (-3)$ both equal -1 .

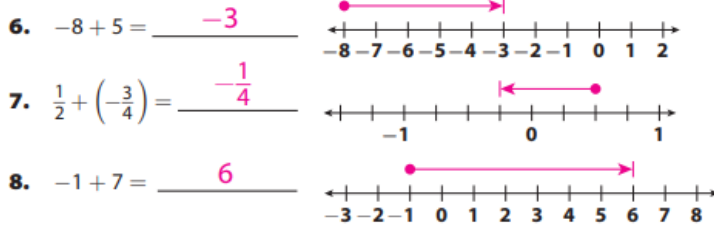
5. **Make a Conjecture** Do you think the sum of a negative number and a positive number will always be negative? Explain your reasoning.

No; The sum could be positive if the positive addend has a greater absolute value than the negative addend.

$10 + (-7) = 3$
 $\frac{5}{4} + (-\frac{3}{4}) = \frac{2}{4} = \frac{1}{2}$
 $2 + (-3) = -1$

YOUR TURN ↓

Use a number line to find each sum.



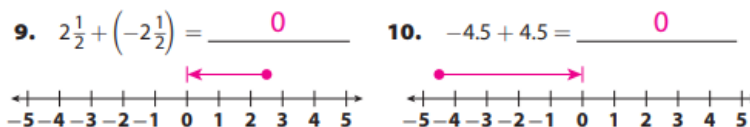
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Finding the Additive Inverse pg. 558

The **opposite**, or **additive inverse**, of a number is the same distance from 0 on a number line as the original number, but on the other side of 0. The sum of a number and its additive inverse is 0. Zero is its own additive inverse.

YOUR TURN ↓

Use a number line to find each sum.



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Adding Three or More Rational Numbers pg. 559

Recall that the Associative Property of Addition states that you are adding more than two numbers, you can group any of the numbers together. This property can help you add numbers with different signs.

YOUR TURN

Find each sum.

11. $-1.5 + [3.5 + 2]$
 $-1.5 + 5.5$
4

12. $3\frac{1}{4} + [-2] + [-2\frac{1}{4}]$
 $3\frac{1}{4} + (-4\frac{1}{4})$
-1

13. $[-2.75 + (-3.25)] + 5$
 $-6 + 5$
-1

14. $[15 + 8] + (-3)$
 $23 + (-3)$
20

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LESSON 19.3 Subtracting Rational Numbers pg. 567

KCC

1. $5 - (+8) = \underline{13}$

2. $-3\frac{1}{2} + 4\frac{1}{2} = \underline{-8}$

3. $-7 + 4 = \underline{-11}$

4. $-0.5 - 3.5 = \underline{-4}$

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6. $-12.5 + (+4.8) = -7.7$ 7. $\frac{1}{3} + \left(+\frac{2}{3}\right) = \frac{3}{3} = 1$ pg. 567

$$\begin{array}{r} \text{K} \quad \text{C} \quad \text{C} \\ -12.5 \\ + 4.8 \\ \hline -7.7 \end{array}$$

9. $-\frac{2}{9} + (+3) = 2\frac{7}{9}$ 10. $24\frac{3}{8} + \left(+54\frac{1}{8}\right) = 78\frac{4}{8} = 78\frac{1}{2}$

$$\begin{array}{r} -\frac{2}{9} + \frac{27}{9} \\ -2 + 27 = \frac{25}{9} = 2\frac{7}{9} \end{array}$$

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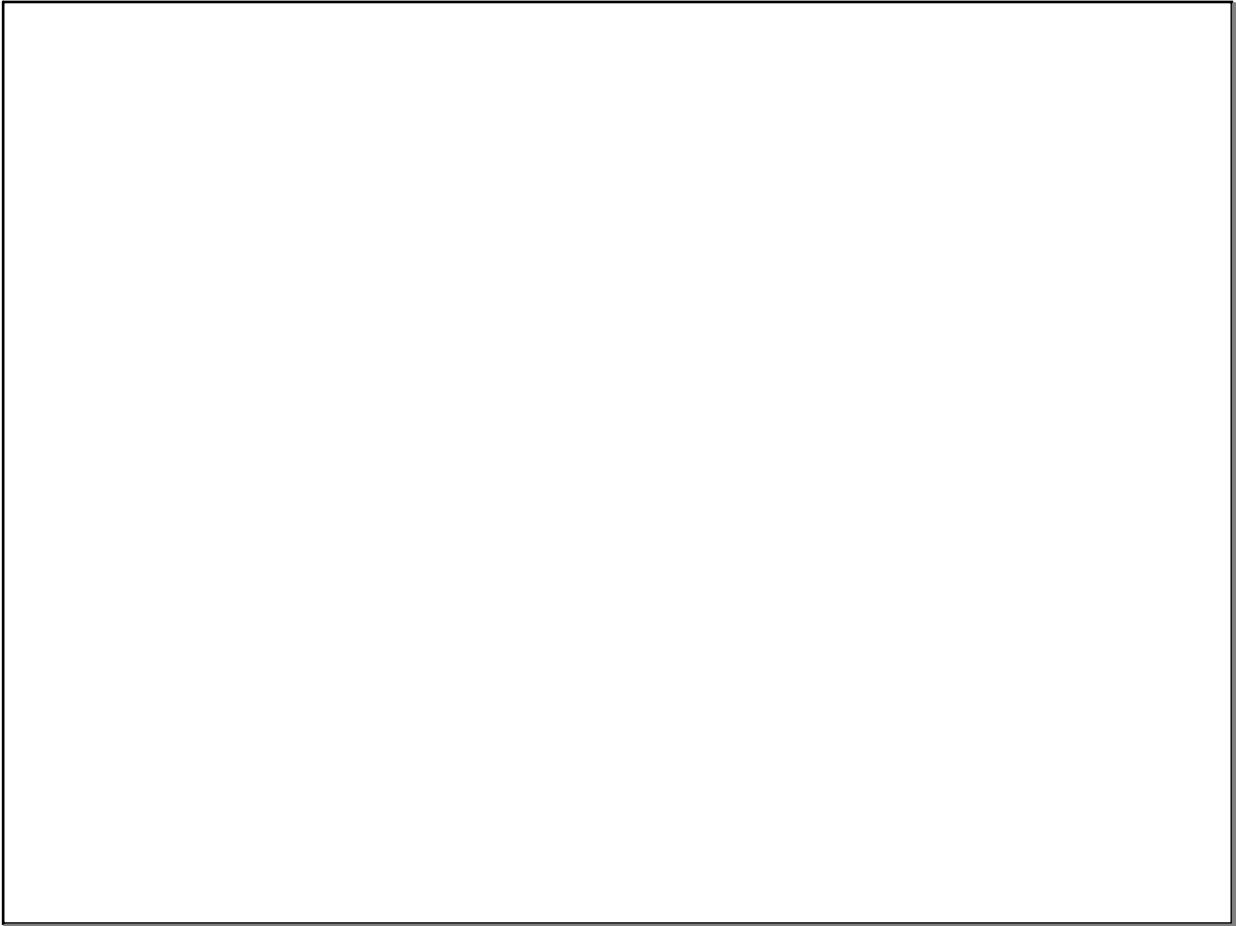
Homework - Worksheet

Quiz tomorrow over add and subtract fractions and mixed numbers.

Rework Decimal Operation Test due tomorrow

Spiral Review 6 Corrections due Friday

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Oct 1-8:21 AM