

### 3 ACTIVITY: Financial Literacy



Work with a partner. The table shows the balance in a checkbook.

- Black numbers are amounts added to the account.
- Red numbers are amounts taken from the account.

Date	Check #	Transaction	Amount	Balance
--	--	Previous balance	--	100.00
→ 1/02/2013	124	Groceries	34.57	
1/07/2013		Check deposit	875.50	
1/11/2013		ATM withdrawal	40.00	
1/14/2013	125	Electric company	78.43	
1/17/2013		Music store	10.55	
1/18/2013	126	Shoes	47.21	
1/22/2013		Check deposit	125.00	
1/24/2013		Interest	2.12	
1/25/2013	127	Cell phone	59.99	
1/26/2013	128	Clothes	65.54	
→ 1/30/2013	129	Cable company	75.00	

## Lesson 2.3

**Learning Target:** Subtract Rational Numbers

---

To Subtract Positive and Negative  
Fractions and Decimals

Remember the Trick

Change problems into Addition!

**To Subtract an integer,  
Add its OPPOSITE**

**Examples**

$$3 - 7 = 3 + (-7)$$

$$5 - 8 = 5 + 8$$

$$-6 - 2 = -6 + (-2)$$

**Keep it,  
Change it,  
Opposite**

**To Subtract a Fraction or Decimal,  
Add its OPPOSITE**

**Fraction**

$$\frac{3}{5} - \frac{7}{8} = \frac{3}{5.8} + \frac{-7}{8.5} \rightarrow \frac{24}{40} + \frac{-35}{40} = \frac{-11}{40}$$

**Decimal**

$$-5.32 - (-4.9) = -5.32 + 4.9$$

U

**Rewrite as Addition Problems on your whiteboard**

25)  $1.8 - (-3.7)$

## Remember Rules When Adding or Subtracting Decimals and Fractions

### Decimals

You must  
line up the  
decimals

$$12.86 - 1.4$$

$$\begin{array}{r} 12.86 \\ - 1.40 \\ \hline \end{array}$$

### Fractions

You must  
have common  
denominators

$$-\frac{5}{2} - \left(-\frac{7}{8}\right)$$

$$-\frac{5.4}{2.4} + \frac{7}{8}$$

$$-\frac{20}{8} + \frac{7}{8}$$

## Practice Solving

- if signs are different, find the difference! Subtract.
- if signs are the SAME, Add.

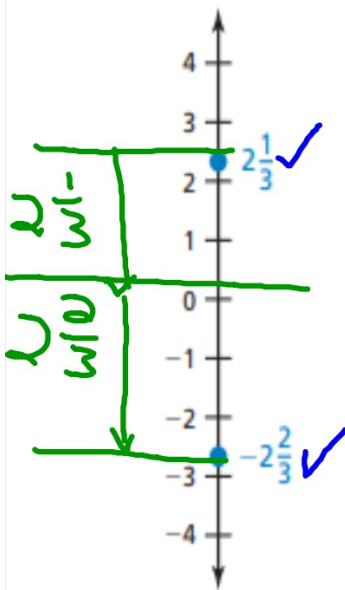
$$\begin{array}{r} 17 - 2.8 \\ \cancel{17}^6 \cdot \cancel{0}^{10} \\ 2.8 \\ \hline 14.2 \end{array}$$

$$\begin{array}{r} -\frac{3}{2} - \frac{8}{5} \\ -\frac{3}{2} + -\frac{8}{5} \\ -\frac{15}{10} + -\frac{16}{10} \\ -\frac{31}{10} = \left( -\frac{31}{10} \right) \end{array}$$

## Finding Distances Between Numbers on a Number Line

To find the distance between two numbers,  
Find the **DIFFERENCE** of the numbers

Greater Value - Lesser Value



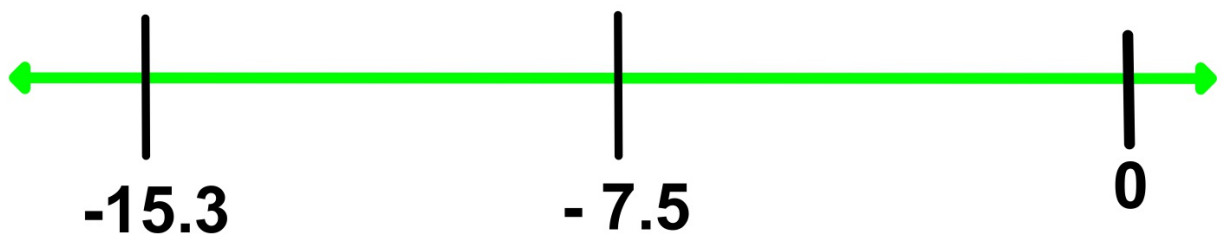
$$2\frac{1}{3} - (-2\frac{2}{3})$$

$$2\frac{1}{3} + 2\frac{2}{3} = 5$$



Find the distance between the two points  
-7.5 and -15.3 on a number line

Greater Value - Lesser Value



$$-7.5 - (-15.3)$$

$$-7.5 + 15.3 =$$

7.8

Greater!

$$\begin{array}{r} 4\ 13 \\ 15.3 \\ -7.5 \\ \hline 7.8 \end{array}$$

In the water, the bottom of a boat is 2.1 feet below the surface, and the top of the boat is 8.7 feet above it. Towed on a trailer, the bottom of the boat is 1.3 feet above the ground. Can the boat and trailer pass under a bridge with a clearance of 11 ft 8 in?



Clearance: 11 ft 8 in.



$$\begin{array}{r} 8.7 \text{ ft} \\ 2.1 \text{ ft} \\ \hline 10.8 \end{array}$$



$$12.1 \text{ ft}$$

## Homework

**Pg 62 and 63  
#2, 3-11 odd,  
12-15, 17a  
18-20, 23, 24**

check  
odds

**(16 questions)**

