

Mini Lesson #2

Oct. 11, 2018

For Tasks #2 & 3

Nov. 4th, 2020

- Adding rational numbers
- More fractions

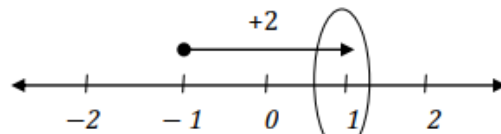
Section 3.2: Adding Rational Numbers

Mini lesson #2

Adding Integers:

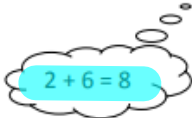
a). $(-1) + (+2)$ —————> let's try using a number line (from gr. 7)

- start at the first integer
- go left for adding a positive
- go right for adding a negative

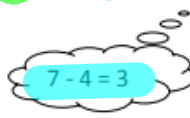


Answer = +1

b). $(-2) + (-6) = -8$



c). $(-7) + (+4) = -3$



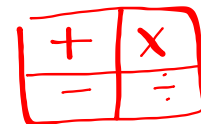
Try These!

1). $(-2) + (-1)$

2). $-6 + (-4)$

$(-6) + (-4)$

3). $(+8) + (-12)$



4). $(+5) + (-19)$

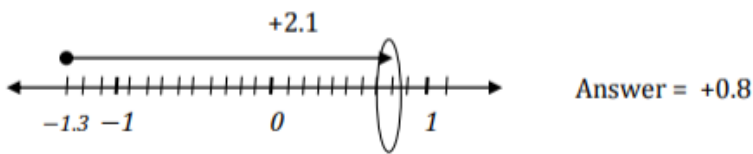
5). $(-5) + 3 + (-9)$

6). $7 + (-2) + (-7) + (+4)$

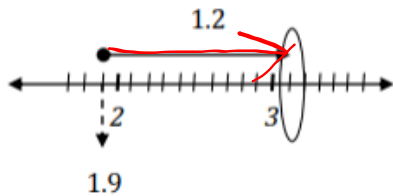
Answers: a). -3 b). -10 c). -4 d). -14 e). -11 f). +2

Adding Decimals:

1. $(-1.3) + (+2.1)$ \longrightarrow let's try using a number line



2. Write an addition equation for:



$$1.9 + 1.2 = +3.1$$

$$7.3 + (-3.1) =$$

Add.

a). $(-2.8) + (-6.5) = -9.3$

$$2.8 + 6.5 = 9.3$$

c). $(-7.3) + (+3.1) = -4.2$

$$7.3 - 3.1 = 4.2$$

Try These!

1). $(+2.4) + (-1.7)$

2). $(-3.5) + 6.3$

3). $(-4.1) + (-3.1)$

Answers: a). 0.7 b). 2.8 c). -7.2 d). -0.16 e). -0.25 f). 0.042

Adding Fractions:

a). $\frac{-7}{9} + \frac{5}{9} = \frac{-2}{9}$

b). $\frac{2}{5} + \frac{-3}{5} = \frac{-1}{5}$

*** These fractions already have common denominators (the same bottom #) so just add the numerators (top #'s)

8: 8, 16, 24, ...
4: 4, 8

c). $\frac{-7}{8} + \frac{3}{4}$ * get common denominators first (make the bottom # the same)

$\frac{-7}{8} + \frac{3 \times 2}{4 \times 2}$ * multiply the numerator and denominator by the same #

$\frac{-7}{8} + \frac{6}{8} = \frac{-1}{8}$

b). $-3\frac{1}{3} + 2\frac{5}{6}$ * change to an improper fraction first

$-\frac{10 \times 2}{3 \times 2} + \frac{17}{6}$
 $-\frac{20}{6} + \frac{17}{6}$
 $= -\frac{3}{6} = -\frac{1}{2}$

3: 3, 6, 9, ...
6: 6

Try These!

a). $1\frac{1}{2} + (-2\frac{1}{3})$

b). $\frac{3}{8} + \frac{7}{6}$

c). $\frac{-3}{2} + \frac{1}{6}$

Try These!

a). $1\frac{1}{2} + (-2\frac{1}{3})$ b). $\frac{3}{8} + \frac{7}{6}$ c). $\frac{-3}{2} + \frac{1}{6}$

Answers: a). $-\frac{5}{6}$ b). $\frac{37}{24} = 1\frac{7}{24}$ c). $\frac{-8}{6} = \frac{-4}{3}$

End of Mini Lesson #2