

Review 1-3

$\frac{2}{3}$ rational fraction

3 rational counting, integer whole

 $0.\underline{65}6565\dots$ rational repeating decimal

 0.78 rational terminal

-4 rational integer

0 rational whole, integer

 $\sqrt{16}$ rational perfect square

irrational

 $\sqrt{80}$

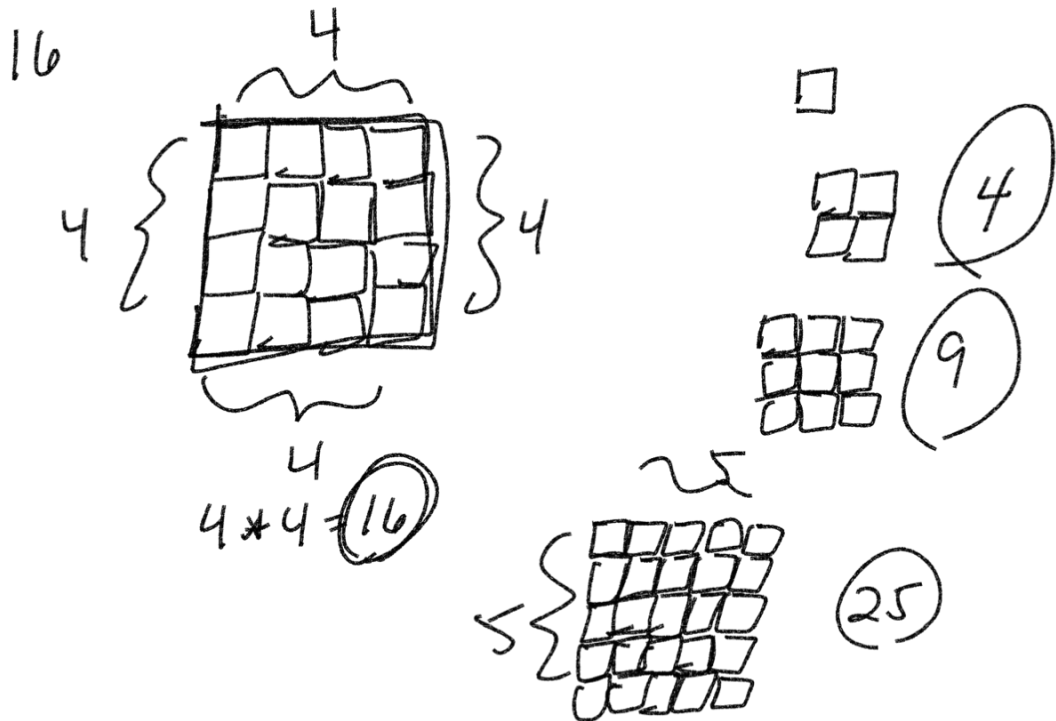
 $0.113729\dots$ irrational

 $0.\underline{2222}\dots$ rational repeating decimal

 0.17593 rational terminal decimal

Rational Numbers

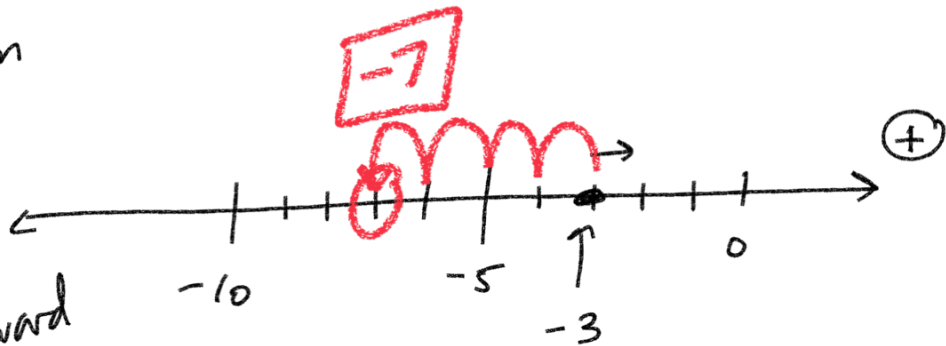
Counting, whole, integer, terminal decimal, repeating decimal, perfect square



1-4 Adding Real Numbers

$-3 \boxed{+} (-4) = -7$
 start \nearrow $\boxed{+}$ \nwarrow backwards
 direction \uparrow

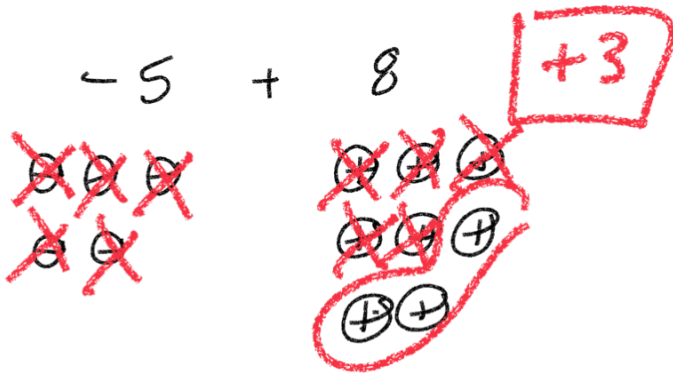
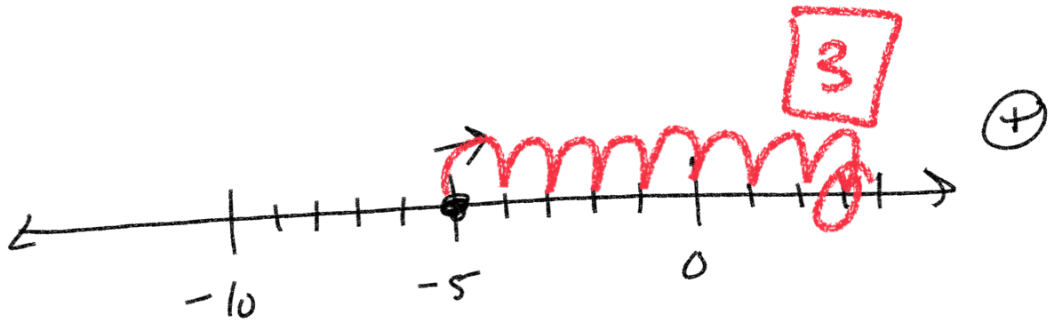
same sign, take the sum



$-5 \oplus +8 = 3$
 start \nearrow \oplus \nwarrow forward
 direction \downarrow larger absolute value \uparrow

different signs, take difference

$8 - 5 = 3$



$$5.) -2 + (-3) = \boxed{-5}$$

$$-5 + 3 = \boxed{-2}$$

$$7.) -3 + 5 = \boxed{2}$$

$$-8 + -6 = \boxed{-14}$$

$$9.) -2.3 + (-1.5) = \boxed{-3.8}$$

$$8 + (-6) = \boxed{2}$$

$$11.) \downarrow -5.1 + 2.8 = \boxed{-2.3}$$

$$\begin{array}{r} 4 \\ 8.11 \\ -2.8 \\ \hline 2.3 \end{array} \quad -8 + 6 = \boxed{-2}$$

$$13.) 1.3 + (-1.1) = \boxed{0.2}$$

$$17.) -a + (-b)$$

$$a = 5 \quad b = \boxed{-4}$$

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

$$-5 + 4 = \boxed{-1}$$

$$18.) -a + b$$

$$-(5) + (-4) = -5 + (-4) = \boxed{-9}$$

$$19.) a + b$$

$$\downarrow \\ 5 + (-4) = \boxed{1}$$

$$20.) a + (-b) \quad -4$$

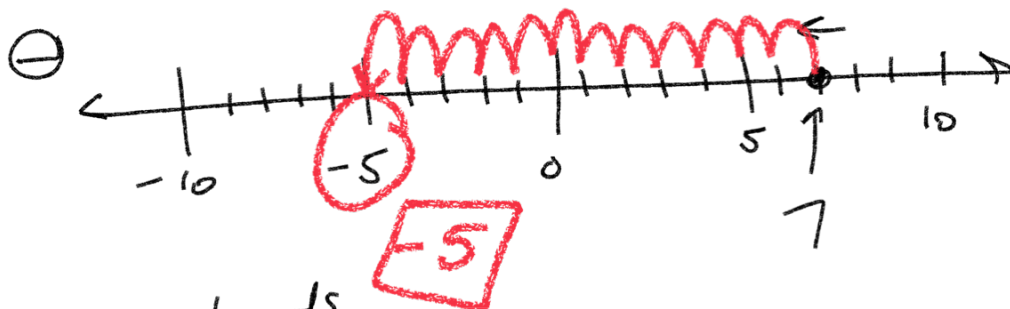
$$\downarrow \quad \downarrow \quad \curvearrowright \\ 5 + (-(-4)) = 5 + 4 = \textcircled{9}$$

1-5 Subtracting Real Numbers

$$7 \ominus 12 = 7 + (-12) = \boxed{-5}$$

start look \ominus

$$12 - 7 = 5$$

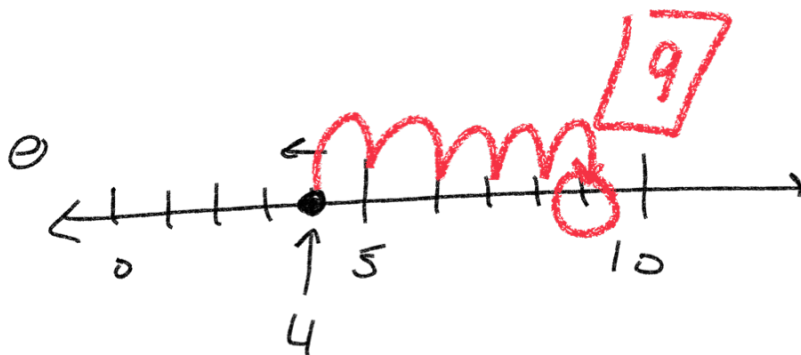


3.) $4 \ominus (-5)$

start backwards

$$4 - (-5)$$

$$+ 5 = \boxed{9}$$



$$-6 \ominus 4 = -6 + (-4) = \boxed{-10}$$

$$-6 \ominus (-4) = -6 + 4 = \boxed{-2}$$

$$6 - 4 = \boxed{2}$$

$$6 \ominus (-4) = 6 + 4 = \boxed{10}$$

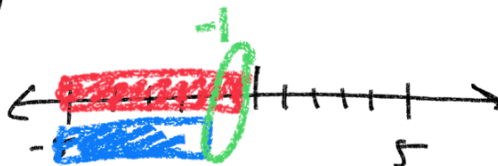
$-5 + 4$
think: $5 - 4 = 1$

$$-5 \ominus (-4) = (-5) + 4 = \boxed{-1}$$

$$-5 - 4 = \boxed{-9}$$

$$5 \ominus (-4) = 5 + 4 = \boxed{9}$$

$$5 - 4 = \boxed{1}$$



$$7 - 11 = \boxed{-4}$$

$$7 + (-11)$$

$$11 - 7 = 4$$

$$-7 - 11 = \boxed{-18}$$

$$7 - (-11) = 7 + 11 = \boxed{18}$$

$$-7 - (-11) = -7 + 11 = \boxed{4}$$

1-6 Multiplying and Dividing Real Numbers

You	Everyone else	Result
Happy (+)	* Happy (+)	= (+) Good
Sad (-)	* Happy (+)	= (-) Bad
Happy (+)	* Sad (-)	= (-) Bad
Sad (-)	* Sad (-)	= (+) Good

CONFORMITY!

If even number of negatives \rightarrow positive

If odd number of negatives \rightarrow negative

$$4(-2) = -8$$

$$-2(-5) = 10$$

$$(-7)^2 = (-7)(-7) = \boxed{49}$$

$$4(p)^2 + 7(q)^3 \quad p = (-3) \quad q = (-2)$$
$$4(-3)^2 + 7(-2)^3$$
$$4(9) + 7(-8)$$
$$36 - 56 = \boxed{-20}$$

Quiz 2
due tonight

Quiz 3
due Oct 6th

1-4 evens
1-5 evens
1-6 evens
or

~~Supplemental~~

Online HW #4 (Thurs)

Quiz 4 (Thurs)
due Oct 13th

