

Math 20 - Thurs, 1/26

Please turn in your Student Info sheet

Questions on Chapter 1

Quiz 3 on Chapter 1 - times table ok

New material: 2.3, 2.4, 2.5

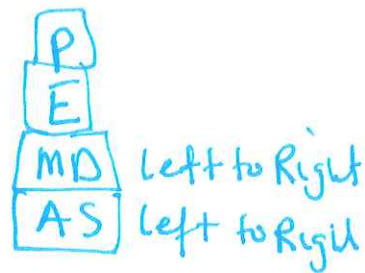
Take-home quiz 2 due Tuesday

Scavenger hunt handed out

Questions

$$\begin{aligned} 1.9 \quad & 46 + 3[5^2 - 4(9-5)] \\ & = 46 + 3[25 - 4(4)] \\ & = 46 + 3[25 - 16] \\ & = 46 + 3 \cdot 9 \\ & = 46 + 27 \\ & = 73 \end{aligned}$$

$$\begin{array}{r} 1 \\ 46 \\ + 27 \\ \hline 73 \end{array}$$



Review 2.2 - Adding Integers

$$6 + (-5) = 1$$

$$10 + (-7) = 3$$

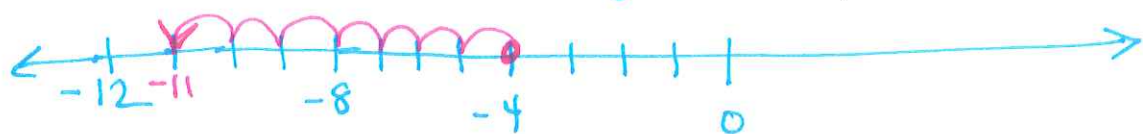
$$-4 + (-7) = -11$$

$$6 - 5 = 1$$

$$10 - 7 = 3$$

$$-4 - 7 = -11$$

Section 2.3 - Subtracting Integers



adding a negative is the same as subtracting

$$4 - 8 = -4$$

$$4 + (-8) =$$

↑
left
spending money

$$15 - 21 = -6$$

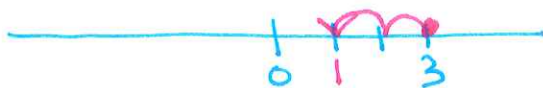
$$15 + (-21)$$

$$-3 - 27 = -30$$

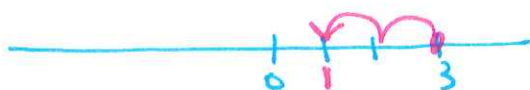
Subtracting a negative

~~3~~

$$3 + (-2) = 1$$

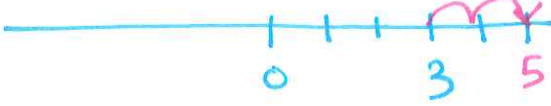


$$3 - 2 = 1$$



$$3 \overset{\text{right}}{-} (-2) = 5$$

3 + 2



$$3 - (-2)$$

$$3 + (+2)$$

Subtracting a negative is the same as adding (goes to the right)

Money

$$3 - (-2) \text{ credit } \$3 + 2 = 5$$

have
\$3

3 + (-2)
have charge
\$3 \$2

webwork

$$\#5. -5 - (-6) = 1$$

2.4 Multiplying Integers

Spend \$3 on a latte 5 days in a row

$$-3(5) = -15$$

$$-3 + (-3) + (-3) + (-3) + (-3) = -15$$

$$\left. \begin{array}{l} -5 \cdot 3 = -15 \\ -5 \cdot 2 = -10 \\ -5 \cdot 1 = -5 \\ -5 \cdot 0 = 0 \\ -5(-1) = 5 \\ -5(-2) = 10 \end{array} \right\}$$

$+$	\cdot	$+$	$=$	$+$
$+$	\cdot	$-$	$=$	$-$
$-$	\cdot	$+$	$=$	$-$
$-$	\cdot	$-$	$=$	$+$

$+$

$(-)$	$+$	$(-)$	$=$	$-$
$+$	$+$	$+$	$=$	$+$
$-$	$+$	$+$	$=$	sign of larger value
3	$-$	(-4)		

Examples:

$$(-2)(-7) = 14$$

$$(-2)(7)$$

$$3 - 1(4)$$

$$3 + 4$$

$$-2 \cdot -7 = +14$$

$$-2(-7) = 14$$

$$-20(40) = -800$$

$$10(-10)(10)(-10)(10) = 100,000$$

even # of negatives is positive

$$10(-10)(-10)(-10)(10) = -100,000$$

odd # of negatives is negative

2.5 Dividing Integers

$$\frac{\$10}{0} = \text{undefined "DNE"} \quad \frac{\$0}{10} = 0$$

↑
Can't divide among zero people

+	÷	+	=	+
+	÷	-	=	-
-	÷	+	=	-
-	÷	-	=	+

Start on 2.4 + 2.5 webwork