

You will need today:

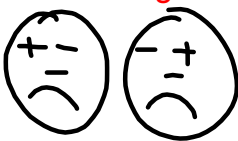
- Hw from yesterday
- Pencil
- Correcting Pen
- Agenda

-Spiral/comp notebook



Same signs positive

Different sign negative



There are 22 problems from your hw on pages 543-544. Count the number of problems you completed and write this number at the top of your paper. Begin correcting.

**18.1 Multiplying Integers**

Find each product.

1.  $(-2)(3)$          -6
2.  $(-5)(-7)$          35
3.  $(8)(-11)$         -88
4.  $(-3)(2)(-2)$         12         
 $-6(-2)$
5. The temperature dropped  $3^{\circ}\text{C}$  every hour for 5 hours.  
 Write an integer that represents the change in temperature.        -15 $^{\circ}\text{C}$          
 $-3(5)$



**18.2 Dividing Integers**

Find each quotient.

6.  $\frac{-63}{7}$          -9
7.  $\frac{-15}{-3}$          5
8.  $0 \div (-15)$          0
9.  $96 \div (-12)$         -8

Sep 5-4:01 PM

10. An elephant at the zoo lost 24 pounds over 6 months.  
 The elephant lost the same amount of weight each month.  
 Write an integer that represents the change in the elephant's weight each month.        -4 lb         
 $-24 \div 6$

**18.3 Applying Integer Operations**

Evaluate each expression.

11.  $(-4)(5) + 8$         -12         
 $-20 + 8$
12.  $(-3)(-6) - 7$         11         
 $18 - 7$
13.  $-27 \div 9 - 11$         -14         
 $-3 + -11$
14.  $\frac{-24}{-3} - (-2)$         10         
 $8 + (+2)$

15. Write and solve a real-world problem that can be represented by the expression  $(-3)(5) + 10$ .

Sample answer: Maurice lost 3 nickels in the laundry and found 1 dime in the couch. By how much did the amount of money he had change?  $(-3)(5) + 10 = -5$ ; He had \$.05 less than before.        -15 + 10 = -5       

Sep 5-4:08 PM

**Selected Response**

1. A diver is at an elevation of  $-18$  feet relative to sea level. The diver descends to an undersea cave that is 4 times as far from the surface. What is the elevation of the cave?

- (A)  $-72$  feet
- (B)  $-22$  feet
- (C)  $-18$  feet
- (D)  $-14$  feet

SL  
 $-18 \times 4$

2. The football team lost 4 yards on 2 plays in a row. Which of the following could represent the change in field position?

- (A)  $-12$  yards
- (B)  $-8$  yards
- (C)  $-6$  yards
- (D)  $-2$  yards

$-4(2)$


3. Clayton climbed ~~down~~ 50 meters. He climbed down in 10-meter intervals. In how many intervals did Clayton make his climb?

- (A) 5
- (B) 10
- (C) 40
- (D) 500

$-50 \div -10$

4. Which expression results in a negative answer?

- (A) a negative number divided by a negative number  $+$
- (B) a positive number divided by a negative number  $-$
- (C) a negative number multiplied by a negative number  $+$
- (D) a positive number multiplied by a positive number  $+$

Sep 5-4:09 PM

5. Clara played a video game before she left the house to go on a walk. She started with 0 points, lost 6 points 3 times, won 4 points, and then lost 2 points. How many points did she have when she left the house to go on the walk?

- (A)  $-20$
- (B)  $-16$
- (C) 12
- (D) 20

$-6(3)$   
 $-18 + 4$   
 $3(-2)$   
 $-14 + (-2)$   
 $-16$

6. Which expression is equal to 0?

- (A)  $\frac{-24}{6} - 4$
- (B)  $\frac{-24}{-6} + 4$
- (C)  $\frac{24}{6} + 4$
- (D)  $\frac{-24}{-6} - 4$

$4 - 4 = 0$

**Mini-Task**

7. Rochelle and Denae started with the same amount of money in their bank accounts. Rochelle made three withdrawals of \$25 and then wrote a \$100 check. Denae deposited \$5 and then wrote a \$200 check.

a. Find the total change in the amount of money in Rochelle's account.

b. Find the total change in the amount of money in Denae's account.

c. Compare the amounts of money the two women have in their accounts now.

R. has \$20 more  
Denae has \$20 less in her account than Rochelle has in hers.

$-75 + (-100) = -\$175$   
 $5 + (-200) = -\$195$

Sep 5-4:11 PM

pages 519-520 Add and Subtract Quiz

**MODULE QUIZ**

# Ready to Go On?

**17.1 Adding Integers with the Same Sign** *Add and keep the sign*

Add.

1.  $-8 + (-6) = -14$       2.  $-4 + (-7) = -11$       3.  $-9 + (-12) = -21$

**17.2 Adding Integers with Different Signs** *Subtract. Use the sign of the "bigger" number*

Add.

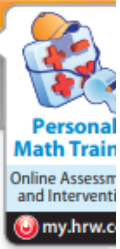
4.  $5 + (-2) = 3$       5.  $-8 + 4 = -4$       6.  $15 + (-8) = 7$

**17.3 Subtracting Integers** *KCC*

Subtract.

7.  $2 - 9 = -7$       8.  $-3 - (+4) = 1$       9.  $11 - (-12) = 23$

*Handwritten notes for 7:  $2 + (-9)$ ; for 8:  $-3 + 4$ ; for 9:  $11 + 12$*



Sep 5-4:13 PM

**Bonus** 10. A bus makes a stop at 2:30, letting off 15 people and letting on 9. The bus makes another stop ten minutes later to let off 4 more people. How many more or fewer people are on the bus after the second stop compared to the number of people on the bus before the 2:30 stop?  
There are 10 fewer people on the bus. / -10

11. Cate and Elena were playing a card game. The stack of cards in the middle had 24 cards in it to begin with. Cate added 8 cards to the stack. Elena then took 12 cards from the stack. Finally, Cate took 9 cards from the stack. How many cards were left in the stack? 11 cards

**ESSENTIAL QUESTION**

12. Write and solve a word problem that can be modeled by addition of two negative integers.  
Sample answer: Tonya owes her sister \$10 and her friend \$5. By how much will her savings change after she pays them?;  $-10 + (-5) = -15$ ; \$15 decrease

$(-)+(-) =$

*Handwritten calculations:*  
 $-15 + 9 = -6$   
 $-6 + (-4) = -10$   

$$\begin{array}{r} 24 \\ +8 \\ \hline 32 \\ -12 \\ \hline 20 \\ -9 \\ \hline 11 \end{array}$$

Sep 5-4:18 PM

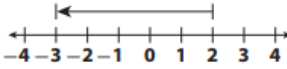
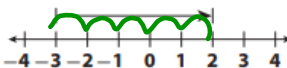
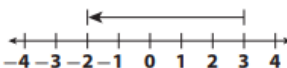
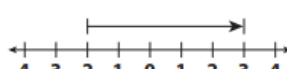
1. Which expression has the same value as  $-3 + (-5)$ ?  $-8$

- (A)  $-3 + (-5)$   $-3+5=2$
- (B)  $-3 + 5 = 2$
- (C)  $-5 + (-3) = -8$
- (D)  $-5 + (-3)$   
 $-5+3=-2$

2. A diver's elevation is  $-30$  feet relative to sea level. She dives down 12 feet. What is her elevation after the dive?

- (A) 12 feet sc
  - (B) 18 feet
  - (C)  $-30$  feet
  - (D)  $-42$  feet
- $$\begin{array}{r} -30ft \\ + -12ft \\ \hline -42 \end{array}$$

3. Which number line models the expression  $-3 + 5$ ?

- (A) 
- (B) 
- (C) 
- (D) 

4. Which number can you add to 5 to get a sum of 0?

- (A)  $-10$
- (B)  $-5$
- (C) 0
- (D) 5

Sep 5-4:19 PM

5. The temperature in the morning was  $-3^\circ\text{F}$ . The temperature dropped 11 degrees by night. What was the temperature at night?

- (A)  $-14^\circ\text{F}$   $-3^\circ + (-11^\circ)$
- (B)  $-8^\circ\text{F}$
- (C)  $8^\circ\text{F}$
- (D)  $14^\circ\text{F}$

6. Which of the following expressions has the greatest value?

- (A)  $3 + 7 + (-10)$   $-4 + (-10) = -14$
- (B)  $3 + 7 - (-10)$   $10 + (+10) = 20$
- (C)  $3 - 7 - (-10)$   $-4 + (+10) = 6$
- (D)  $3 + 7 + (-10)$   
 $10 + (-10) = 0$

7. At the end of one day, the value of a share of a certain stock was \$12. Over the next three days, the change in the value of the share was  $-\$1$ , then,  $-\$1$ , and then  $\$3$ .

a. Write an expression that describes the situation.  $12 - 1 - 1 + 3$

$$\frac{12 + (-1) + (-1) + 3}{11 + (-1) = 10 + 3}$$

b. Evaluate the expression. 13

c. What does your answer to part b mean in the context of the problem?

The value of the stock at the end of three days was \$13.

Sep 5-4:20 PM

Test tomorrow over all 4 operations with Integers

Subtract  
 $1 - 3$

Spiral Review 3 due tomorrow

Spiral Review 2 corrections due tomorrow

$\begin{array}{r} + / - \\ 1 + 3 = 4 \\ + \quad + + + \end{array}$	$\begin{array}{r} -1 + (-3) = -4 \\ - \quad - - - \end{array}$	$\begin{array}{r} 1 + (-3) = -2 \\ \text{+} \\ - \\ - \end{array}$
--	--	--

Sep 5-4:20 PM