Name	Date	Class			
LESSON Homework and Pract	ice				
9-1 Understanding Integers					
Name a positive or negative number to r situation.	epresent each				
 withdrawing \$124 from a bank account 	2. paying \$25	5 to ride in a taxi cab			
3. raising the height of a basketball goal by 6 inches	4. getting a b	onus at work for \$789			
Graph each integer and its opposite on t -6 -5 -4 -3 -2 -1 0 +1 +2 +3 +4	the number line. ++ → +5 +6				
5. -4 6. +6	7. –1	8. 0			
Use the number line to find the absolute value of each integer. $\leftarrow + + + + + + + + + + + + + + + + + + +$					
9. -4 10. +1	11. +5	12. -2			
13. The highest point in the state of Colorado is Mt. Elbert. It rises 14,433 feet above sea level. Write the elevation of Mt. Elbert as an integer.	14. The lowes California i elevation is Write the e as an integ	t point in the state of is Death Valley. Its s 282 feet below sea level. elevation of Death Valley ger.			

Date	Class	
	Class	

	to compare each pair of int	i S egers
rite $<$ or $>$.		
10-9-8-7-6-5	5 -4 -3 -2 -1 0 +1 +2 -	+ + + + + + + → +3 +4 +5 +6 +7 +8 +9+10
. –1 🗌 –5	2. -3 4	3. -45
. –10 🗌 0	51 7	6. 7 10
der the integers in	each set from least to grea	itest.
. 4, -1, -3	8. 3, 0, 10	9. -2, -3, -5
. 10, -9, 6	11. 9, -1, 0	12. –3, 2, –1
der the integers in	each set from greatest to l	east.
. 7, -2, 10	14. −1, 1, −3	15. –10, –4, –3
. 7, 8, -3	17. –9, 12, 0	18. -4, -8, -1

- lowest point in Kansas is 679 feet above sea level. The lowest point in Louisiana is 8 feet below sea level. Write the names of these three states in order from the lowest to the highest elevation.
- **20.** The lowest recorded temperature in California was 45°F below zero. In Delaware, the lowest recorded temperature was 17°F below zero. The lowest temperature recorded in Florida was 2°F below zero. Write the names of these three states in order from the highest to the lowest recorded temperature.

	work and Practice						
Use the coordinat	te plane to answer questions	1–12.					
Name the quadra	nt where each point is locate	d.					
1. <i>D</i>	2. <i>P</i>	·;	· · · ·	▲ <i>У</i>			_
3. <i>Q</i>	4. <i>Y</i>						
5. <i>B</i>	6. <i>C</i>	B	x	2	Y.	С	
Give the coordina	tes of each point.						x
7. B	8. <i>D</i>	-4 D	− 2	0	2	4 Q	
9. <i>P</i>	10. <i>C</i>	A	P				
11. Y	12. <i>X</i>		•	-4			
Graph each point	on the coordinate plane at th	ne right.		•			
13. <i>M</i> (-4, -2)	14. <i>U</i> (0, −2)						7
15. <i>V</i> (-1, 4)	16. <i>E</i> (2, −2)						
17. <i>J</i> (0, 0)	18. <i>S</i> (-3, 2)			2			
19. What do you know about the coordinates of a point in the third quadrant?		< _4	-2	0	2	4	 X
				-2			
				-4			
20. What is the onl lies on both the are the coordin	y point on the graph that a <i>x</i> -axis and <i>y</i> -axis? What ates of this point?			<u>⊨</u> ∀			

LESSON Homework and Practice



Write the addition modeled on each number line.





first two rounds?

two locations' elevations?

Name		Date	Class	
	k and Practic	е		
9-6 Multiplying	Integers			-
Write the sign of each	product.			
1. −5 × −8	2. −1 × 16		3. 4 × 12	
4. −9 × 3	5. 1 × (-8)		6. −1 × (−3)	
Find each product.				
7. 3 × (−4)	8. −7 × −1		9. 3 × (-2)	_
10. -8 × (-4)	11. −3 × (10)	1	2. -7 × (-5)	
13. 9 × (-3)	14. −9 × (−4) _	1	5. 7 × 0	
Evaluate 3 <i>n</i> for each v	alue of <i>n</i> .			
16. <i>n</i> = -5	17. <i>n</i> = 3	1	8. <i>n</i> = 6	
19. <i>n</i> = −10	20. <i>n</i> = −1	2	1. <i>n</i> = 8	
Evaluate -3 <i>n</i> for each	value of <i>n</i> .			
22. <i>n</i> = -5	23. <i>n</i> = 0	2	4. <i>n</i> = 6	
25. <i>n</i> = −4	_ 26. <i>n</i> = 7	2	7. <i>n</i> = −1	
28. Last month, Tyler m withdrawals of \$15 bank account and r multiplication expre Tyler's bank transac	ade eight each from his to deposits. What ssion models stions last month?	29. The Atlanti every centu expression Atlantic Oc 4 centuries	c Ocean is sinking 4 inch ury. Write a multiplication that models how much t ean has sunk in the past ?	he

Name		Date	Class
	and Practice		
9-7 Dividing Integ	jers		
Write the sign of each qu	uotient.		
1. 72 ÷ −9	2. −16 ÷ (−4)	3	. 36 ÷ 9
4. −21 ÷ (−7)	5. −30 ÷ 5	6	. 69 ÷ (-3)
Find each quotient.			
7. −12 ÷ 2	8. 18 ÷ 6	9	30 ÷ -10
10. −14 ÷ 7	11. −32 ÷ (−8) _	12	. 66 ÷ (−11)
13. -72 ÷ (-9)	14. −9 ÷ 3	15	. –100 ÷ (–10)
Evaluate $\frac{n}{(-3)}$ for each values	alue of <i>n</i> .		
16. <i>n</i> = 18	17. <i>n</i> = -33	18	. <i>n</i> = -3
19. <i>n</i> = 0	20. <i>n</i> = -6	21	. <i>n</i> = 27
Evaluate $n \div 6$ for each v	alue of <i>n</i> .		
22. <i>n</i> = -36	23. <i>n</i> = 18	24	. <i>n</i> = 60
25. <i>n</i> = -12	26. <i>n</i> = -18	27	. <i>n</i> = -42
28. What two division equa use to check the answ problem $-8 \times (-2) =$	ations can you 2 er to the 16?	9. What two mu can you use the problem	ultiplication equations to check the answer to $-30 \div 5 = -6?$
30. Name two integers wh-27 and whose quoties	ose product is 3 ent is -3?	 Name two in -20 and wh 	tegers whose product is ose quotient is -5.

Name	Da	ate Class
	k and Practice	
SPO Solving Inte	eger Equations	
Write what you should	I do to solve each equation	
1. $x - 8 = -2$	2. $x + 4 = -8$	3. -3 <i>x</i> = 12
4. 5 <i>x</i> = −20	5. $-14 + x = -1$	6. $x \div 5 = -5$
Solve each equation. 7. $-3x = -15$	8. $x + (-4) = -2$	9. 18 ÷ <i>x</i> = −6
10. $x - (-3) = 4$	11. $-9 \div x = -3$	12. $x \div 3 = -10$
13. 13 + <i>x</i> = −3	14. $(-8) + x = 12$	15. −3 <i>x</i> = 24
16. $x - (-3) = 8$	17. $x \div -2 = 25$	18. $x - (-12) = -15$
19. −7 <i>x</i> = 14	20. $-6x = -36$	21. $-6 + x = -7$

22. If you multiply a value, x, by -7 and the product is 35, what sign is the value of x? Explain.

23. You separate an amount into 8 equal groups of -3. Write and solve a division equation to model this situation.