Chapter 1	Integers: a positive or negative whole number that can be written as a fraction with a denominator of 1.							
	Rational Number: anything that can be written as a fraction.							
	Sum: add <u>Difference:</u> subtract							
	Product: answer to multiplication Quotient: answer to division							
MAFS.6.NS.3.7	Understand ordering and <u>absolute value</u> (the distance from zero) of <u>integers</u> (positive and negative whole numbers.)							
Essential Question	What is absolute value? In this lesson I am defining absolute value, so I can use it to simplify expressions.							
1.1 Absolute Value	Absolute value is the distance a number is away from zero. Notation: the absolute value of a is written as a							
Homework: 1.1 Practice A #1-4	Find the absolute value. 1. 7 2. -1 3. -5 4. 14							
Homework: 1.1 Practice A #5-7	Copy and complete the statement using <, >, or =.							
	5. -2 -1 67 6							
	7. 10 11 8. 9 -9							
	One fish is 4 feet below sea level. Another fish is 3 feet below sea level. Write each position as an integer. Which integer is greater?							
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MAFS.7.NS.1.1	Apply and extend previous understandings of addition and subtraction to add and subtract <u>rational numbers</u> (any number that can be written as a fraction- includes integers); represent addition and subtraction on a horizontal or vertical number line diagram; describe situations in which opposite quantities combine to make 0.						
Essential Question	How do you add integers? In this lesson I am using counters, number lines, or rules to understand adding integers, so I can use it to simplify expressions.						
1.2 Adding Integers	Adding integers with the same signs= add, keep sign Adding integers with different signs= subtract, use bigger sign						
Opposites	Two numbers that are the same distance from 0, but on opposite sides of 0. Example: 7 and -7						
Additive Inverse	A number and its opposite always sum (add) to zero. Example: 7+ (-7) = 0						
"Same signs, add and keep"	Add. 1. 7 + 13 28 + (-5) 320 + (-15)	dec					
Homework: 1.2 Practice A	:						
#1-12 "Different signs, subtract"	Add. 42 + 11 5. 9 + (-10) 631 + 31						
	You start hiking at an elevation that is 80 meters below base camp. You increase your elevation by 42 meters. What is the new elevation with respect to base camp?						
	4+3= -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 +1+2+3+4+5+6+7+8+9+10						
	7+(-3)=	34					
	-6+(-3) =						

Essential Question	How do you subtract integers? In this lesson I am using a rule called "adding the opposite", so I can see subtraction as adding and use rules I already know to solve expressions.						
1.3 Subtracting Integers	"add the opposite" (make the minus a plus and take the opposite sign of the number behind it) then use rules from adding $Example: 3-4=3+(-4)=-1$						
Homework: 1.3 Practice A #1-12	Subtract. 1. 8-3 2. 9-17 33-3						
#1 - 12	414-9 5. 9-(-8) 612-(-12-(-12-(-12-(-12-(-12-(-12-(-12-	-12)					
Homework: 1.3 Practice A	Evaluate the expression.						
#16-24	79 - 16 - 8 84 - 20 - 9						
	9. 0 - 9 - (-5) 10. -8 - (-6) - 0						
	11. 15 - (-20) - 20						
Homework: 1.3 Practice A #29	13. The highest elevation in Mexico is 5700 meters, on Pico de Orizaba. The lowest elevation in Mexico is -10 meters, in Laguna Salada. Find the range of elevations in Mexico.						
	The temperature falls from 3°C to -4°C. What is the difference in these temperatures?						
	At 8: 00, the temperature was 6 degrees Celsius (°C). Three hours later, the temperature was -13°C.						
	By how many degrees Celsius did the temperature change?						

MAFS.7.NS.1.2	Apply and extend previous understandings of multiplication to multiply rational numbers.					
Essential Question	How do you multiply integers? In this lesson I am using a sign rule, so I can use it to multiply expressions.					
1.4 Multiplying Integers	Same signs- multiply numbers and get a positive answer Different signs- multiply numbers and get a negative answer					
Homework:	Multiply.					
1.4 Practice A #1-12 And	1. 5 • 5		2. 4(11)	,		
#14-19	31(-9)		47 • (-8)			
	5. 12 • (-2)		6. 4(-6)			
	710(-6)(0)		87 • (-5)	* (-4)		
			× = 1			
Homework: 1.4 Practice A #20-28	Evaluate the expression.					
	9. $(-3)^2$	10 . $(-2)^3$	11. -7^2	12. -6^3		
				* *		
Homework: 1.4 Practice A #31	13. A manatee population decreases by 15 manatees each year for 3 years. Find the total change in the manatee population.					

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Apply and extend previous understandings of division to divide rational numbers.						
How do you divide integers? In this lesson I am using a sign rule, so I can use it to divide expressions.						
Same signs- divide numbers and get a positive answer Different signs- divide numbers and get a negative answer						
1.	14 ÷ 2			3. $-40 \div (-8)$ 6. $\frac{21}{-3}$		
				$b = -6.$ 9. $\frac{b^2}{a} + 4$		
(decreases 36	feet in 6 he	the Bay of Fund ours. What is the	y in New Brunswick mean hourly change		
	How do In this less Same is Different Divid 1. 4. Evaluation 7.	How do you divide interest in this lesson I am using a Same signs- divide number Different signs- divide in Divide. 1. 14 ÷ 2 4. 0 ÷ (-6) Evaluate the expression of the signs of the sign of the s	How do you divide integers? In this lesson I am using a sign rule, so Same signs- divide numbers and ge Different signs- divide numbers and Divide. 1. $14 \div 2$ 2. 4. $0 \div (-6)$ 5. Evaluate the expression when 7 . $a \div b$ 8.	How do you divide integers? In this lesson I am using a sign rule, so I can use it to divide expenses the signs-divide numbers and get a positive answer. Divide. 1. 14 ÷ 2 232 ÷ (-4) 4. 0 ÷ (-6) 5. $\frac{-49}{7}$ Evaluate the expression when $a = -18$ and $a = -18$. 7. $a \div b$ 8. $\frac{a+6}{3}$		

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Find the mean of the integers.

14. The table shows the temperature in Des Moines, Iowa, for certain times during a particular day.

Time	3 A.M.	8 A.M.	1 P.M.	5 P.M.	10 р.м.
Temperature	-15°F	-6°F	22°F	10°F	-11°F

- a. What are the high and low temperatures?
- **b.** Find the range of temperatures.
- c. Find the change in temperature from 5 P.M. to 10 P.M.
- **d.** Based on the given five temperatures, what is the average temperature for the day?
- e. Explain why your answer to part (d) is not an accurate average temperature for the day.