Master 2.21) E

Lesson 2.4: Developing Rules to Divide Integers			
1. a) Evaluate each expression.			
	Multiplication	Division	
	(+4) × (-2) =	(-8) ÷ (-2) =	
	$(-3) \times (+5) =$	(-15) ÷ (+5) =	
	$(-2) \times (-3) =$	(+6) ÷ (−3) =	
	(+3) × (+6) =	(+18) ÷ (+6) =	
	How are the rules for the sign of a c	Look at the patterns in the signs in part a. How are the rules for the sign of a quotient of two integers related to the rules for the sign of a product of two integers?	
2.	a) When is the quotient of two integers positive?		
	b) When is the quotient of two integers negative?		
3.	Divide. a) (−100) ÷ (−10)	b) (−72) ÷ (+9)	
	c) $(+56) \div (-7)$	d) (−42) ÷ (−6)	
	e) (0) \div (-6)	f) $(-9) \div (-9)$	
4.	Find each quotient. Then order the number $(+10) \div (-2)$	6	
	c) $(-36) \div (+12)$	d) (0) ÷ (−10)	
	e) $(-8) \div (-8)$	f) (−48) ÷ (+12)	
5.	Maya recorded the noon temperature each day for a week. -12°C, -8°C, 3°C, 0°C, 1°C, -3°C, 5°C What was the mean temperature?		

Master 2.22) Extra Practice 5

Lesson 2.5: Order of Operations with Integers

1. Evaluate. State which operation you do first. **a**) $8 \times 5 - 4$ **b**) (-4)[(-4)+9]c) $18 \div [(-7) - 2]$ **d**) $(-3) + (-14) \div (-2)$ **2.** Evaluate. Show all steps. **a**) 4(-8) - 9**b**) $(-1) + (-20) \div 5$ c) (-9) + (-4)(-2)**d**) (-3)[(-8) - 11]**3.** Evaluate. **b**) $\frac{-12}{(-2)(-3)}$ a) $\frac{(-5) + (-9)}{2}$ **d**) $\frac{36}{(-5) \times 2 + 4}$ c) $\frac{24 \div (-6) - 1}{-5}$ **4.** Evaluate. **a)** $(-72) \div 9 + 4 \times (-3)$ **b**) $5(-2) - 63 \div (-7)$

- c) $\frac{4(-5) + [28 \div (-4)]}{5 \times (-2) + 1}$ d) $\frac{4 \times (-4) + (-8)}{[10 + (-1)] + [2 \times (-3)]}$
- 5. Evaluate each expression. Then insert one pair of square brackets in each expression so it evaluates to -1.
 - **a)** $12 \div (-4) + (-8)$
 - **b**) (-9) + 6 ÷ 3
 - **c)** $5 \div (-5) \times 0 + 1$