8 Chapter Review

Key Words

For #1 to # 5, use the word list to complete each statement.

	zero	brackets	product	zero pair	quotient			
1.	Integers include positive and negative whole numbers and							
2.	To find the answer for $-2 + (4 - 9) \div 5 \times 3$, do first.							
3.	An integer chip for $+1$ and an integer chip for -1 are together called							
	a							
4.	To find th	ne	means you	multiply.				
5.	When (-1	10) is divided by (+5), t	he	is (-2).				
8.1 Exploring Integer Multiplication, pages 416–422								
6.	Write the multiplication statement for each diagram.							
	a)		b)		1			
				00000000	1			
		•			A)			
	96			000000000	1			
				+ ⊖⊖ ⊖⊖ ⊖⊖ ⊖⊖ ⊖∈				
	() —			
	() × ()	=	() × () =			

- 7. Find the product. Draw integer chips to show your thinking.
 - **a)** $(+3) \times (+3)$ **b)** $(+4) \times (-5)$

8. A sloth took 9 min to climb down a tree. He moved down 2 m/min. How far did the sloth climb down?

Total time = (_____)

Distance for 1 min = (_____)

(_____) × (_____) = _____

The sloth climbed down _____ m in 9 min.

8.2 Multiplying Integers, pages 424-428

- 9. Find the product using a number line.
 - **a)** $(+3) \times (-6) =$ _____

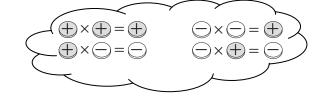
b) $(+4) \times (+2) =$ _____

- **10.** Calculate. Use the sign rule.
 - **a)** $(+7) \times (-8) =$ _____
 - **b)** $(-10) \times (-9) =$ _____
- **11.** Estimate and calculate $(-49) \times (+11)$.

Estimate:

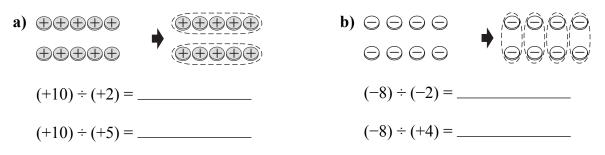
Calculate:





8.3 Exploring Integer Division, pages 430–435

12. Use the diagrams to complete the division statements.



13. Find each quotient. Draw integer chips to show your thinking.

a) $(-14) \div (-2)$ **b)** $(-2) \div (+2)$

8.4 Dividing Integers, pages 437-443

14. Find $(-18) \div (-3)$ using a number line. -20-19-18-17-16-15-14-13-12-11-10-9-8-7-6-5-4-3-2-10 _____) ÷ (______) = _____ **15.** Calculate. Use the sign rule. **a)** $(+75) \div (+25) =$ **b)** $(+64) \div (-8) = _$ c) $(-85) \div (+5) =$ _____ **d**) $(-88) \div (-11) =$ **16.** Six friends went to the zoo. The total cost was \$90. It was Riley's birthday, so the others paid for him. How much did the others each pay? Number of people paying = (+_____) Total cost of admission = (_____) Division statement: (______) ÷ (______) = _____ The others each paid \$_____.

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8.5	8.5 Applying Integer Operations, pages 445–451						
17.	Calculate.						
	a) $(-4) - (-10) \div (-5)$	b) $12 \div [(-4) + (-2)]$					
	= Divide.	Brackets.					
	$= (-4) + (+ \)$ Add the opposite.	Divide.					
	=						
18.	A small plane descended 90 m at 3 m/s. Then it descended 80 m at 2 m/s. For how much time did it descend altogether?	Descend means to go down.					
	90 m at 3 m/s:	80 m at 2 m/s:					
	Descending 90 m = ()	Descending 80 m = ()					
	Number of $m/s = ($)	Number of m/s = ()					
Time descending at 3 m/s + time descending at 2 m/s							
	$= (-90) \div ($) + (-80) $\div ($)) Divide first.					
	=+	Add.					
	=						
	Sentence:						
10	The doily low town protyres in Winnings Monital	$2^{\circ}C + 2^{\circ}C + 4^{\circ}C$ and $5^{\circ}C$					

19. The daily low temperatures in Winnipeg, Manitoba were $-2 \circ C$, $+3 \circ C$, $-4 \circ C$, and $-5 \circ C$. What was the mean temperature?

Add the temperatures:

Mean = sum \div number of days

Sentence: