

LESSON

11-8

Practice B

Dividing Integers

Find each quotient.

1. $56 \div 8$

2. $-45 \div (-9)$

3. $36 \div (-12)$

4. $54 \div (-6)$

5. $-84 \div 7$

6. $-225 \div (-15)$

7. $-45 \div 9$ _____

8. $15 \div (-3)$ _____

9. $-56 \div 8$ _____

10. $-10 \div (-5)$ _____

11. $28 \div (-7)$ _____

12. $-36 \div (-6)$ _____

13. $81 \div 9$ _____

14. $-72 \div 9$ _____

15. $-121 \div (-11)$ _____

Evaluate $\frac{n}{-3}$ for each value of n .

16. $n = 6$ _____

17. $n = -18$ _____

18. $n = -24$ _____

19. $n = -36$ _____

20. $n = 30$ _____

21. $n = -21$ _____

Evaluate $n \div 2$ for each value of n .

22. $n = -14$ _____

23. $n = 20$ _____

24. $n = -24$ _____

25. $n = 8$ _____

26. $n = -18$ _____

27. $n = -22$ _____

28. What two division equations can you use to check the answer to the problem $6 \cdot (-4) = -24$?_____

29. Why are the rules for dividing integers similar to the rules for multiplying integers?

_____30. What multiplication equation can you use to check the answer to the problem $-32 \div 8 = -4$?_____
_____31. Name two integers whose product is -18 and whose quotient is -2 ._____

LESSON **Problem Solving**
11-8 **Dividing Integers**

Use the table below to answer questions 1–6.

Temperatures for Barrow, Alaska

	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Temp (°F)	-13	-18	-15	-2	19	34	39	38	31	14	-2	-11

1. What is the average temperature in Barrow for December and January?

2. What is the average temperature in Barrow for March and July?

3. Which month's average temperature is half as warm as August's?

4. What is the average temperature in Barrow for October and November?

5. What is the average temperature in Barrow for January through April?

6. What is the city's average temperature for September through December?

Circle the letter of the correct answer.

7. A submarine dove to a depth of 168 feet in 7 minutes. What was the average rate of change in its location?
 A 24 feet
 B 168 feet
 C -24 feet
 D -168 feet
8. In its first 4 months of business, Skyscraper Records reported its losses as -\$1,520. What was the company's average monthly loss?
 F -\$1,520
 G -\$380
 H -\$38
 J \$380
9. Which of these expressions checks the solution to the division problem $-8 \div (-2) = 4$?
 A $-8 \cdot (-2)$
 B $4 \cdot 4$
 C $-2 \cdot (2)$
 D $4 \cdot (-2)$
10. A glacier is melting 3 in^3 a year. At that rate, how long will it take for the glacier to change by -24 in^3 ?
 F 72 years
 G 6 years
 H 8 years
 J 24 years