

## LESSON

**Problem Solving****9-7*****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

- What is the average temperature in Barrow for December and January?  
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- What is the average temperature in Barrow for March and July?  
\_\_\_\_\_
- Which month's average temperature is half as warm as August's?  
\_\_\_\_\_
- What is the average temperature in Barrow for October and November?  
\_\_\_\_\_
- What is the average temperature in Barrow for January through April?  
\_\_\_\_\_
- What is the city's average temperature for September through December?  
\_\_\_\_\_

**Circle the letter of the best answer.**

- 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
- 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
- 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  $4 \cdot (-2)$
- A glacier is melting  $3 \text{ in}^3$  a year. At that rate, how long will it take for the glacier to change by  $-24 \text{ in}^3$ ?  
F 72 years  
G 6 years  
H 8 years  
J 24 years