Problem Solving

Dividing Integers

Use the table below to answer questions 1–6.

<table>
<thead>
<tr>
<th>Temperatures for Barrow, Alaska</th>
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<tbody>
<tr>
<td><strong>Temp</strong>°F</td>
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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 best 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 ÷ (−2) = 4?
   A −8 • (−2)  
   B 4 • 4  
   C −2 • (2)  
   D 4 • (−2)

10. A glacier is melting 3 in³ a year. At that rate, how long will it take for the glacier to change by −24 in³?
    F 72 years  
    G 6 years  
    H 8 years  
    J 24 years