Integers Test Study Guide

Name:____________________

NO Calculator

Multiple Choice.

Choose the best answer for the questions below.

1. What integer expression is modeled below?

![Grid with a red section]

A -5 • 4  
B - 6 • - 4  
C - 6 • 4  
D 6 • 4

2. What integer equation is modeled below?

![Number line from -14 to 0 with arrows at -12 and -8]

A - 2 • - 6 = - 12  
B - 2 • - 6 = 12  
C - 2 • 6 = - 12  
D - 2 • 6 = 12
3. What integer equation is modeled below?

A \[ 1 + (-3) = 4 \]
B \[ -1 + (-3) = -4 \]
C \[ 1 - (-3) = 4 \]
D \[ 1 - 3 = 4 \]

4. Which of the following is NOT true?

A \[ |-11| = 11 \]
B \[ |-5| = -5 \]
C \[ |23| = 23 \]
D \[ |-1.5| = 1.5 \]

5. Which of the following is ordered from least to greatest?

A \[-5, -12, 0, -3, -8\]
B \[0, -12, -8, -5, -3\]
C \[-12, -8, -5, -3, 0\]
D \[0, -3, -5, -8, -12\]
6. Which of the following numbers is graphed on the number line below?

A - 5   B - 8   C - 9   D - 8.5

7. The highest temperature ever recorded on Earth was 136°F in Libya. The lowest temperature was -129°F in Antarctica. What is the range of the highest and lowest temperatures on Earth?

A 7°F   B 107°F   C 165°F   D 265°F

8. The change in the number of students enrolled at a school over six months is shown in the following table:

<table>
<thead>
<tr>
<th>School Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month</td>
</tr>
<tr>
<td>October</td>
</tr>
<tr>
<td>November</td>
</tr>
<tr>
<td>December</td>
</tr>
<tr>
<td>January</td>
</tr>
<tr>
<td>February</td>
</tr>
<tr>
<td>March</td>
</tr>
</tbody>
</table>

The number of students enrolled at the end of September was 4,372. What was the number of students enrolled in the school at the end of March?

A 4,379   B 4,403   C 4,325   D 4,352
Short Answer

Evaluate the expressions below.

9. $15 + (-9)$

10. $-6 - 6$

11. $-13(3)$

12. $-72 ÷ 12$

13. $4 - 18$

14. $-5(-2)$

15. $-64 ÷ (-8)$

16. $-15 - (-2)$
Write an integer for each situation.

17. a profit of $2,000

18. a deposit of $240

19. sea level

Answer the questions below.

20. A dolphin dives 15 feet below water. It jumps 20 feet and then dives 9 feet. What is the dolphin’s location now?

21. Evaluate this expression: \(|15| + |-16|\)

22. If \(f = 8, g = -4\) and \(h = -6\), evaluate the expression: \(\frac{gh}{f}\)

23. Evaluate the expression if \(t = -3\), \(d = -8\), and \(r = -2\). \(r(td)\)
24. Draw a model for this equation: \(-5 \cdot 4 = \underline{\hspace{2cm}}\)

25. Draw a model for this equation: \(2 + (-5) = \underline{\hspace{2cm}}\)