

## LESSON

## 9-8

**Problem Solving*****Solving Integer Equations***

For questions 1–8, the temperatures found are in °F.

1. The highest recorded temperature in Africa is the solution to  $x \div (-4) = -34$ . What is Africa's highest recorded temperature?  
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2. The lowest recorded temperature in Australia is the solution to  $7x = -56$ . What is Australia's lowest recorded temperature?  
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3. To find Africa's lowest recorded temperature, solve the following equation:  $80 - x = 91$ .  
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4. To find Europe's highest recorded temperature, solve the following equation:  $x \div -2 = -61$ .  
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5. The solution to  $-2x = -116$  is the highest recorded temperature in Antarctica. What is Antarctica's highest recorded temperature?  
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6. The solution to  $x + (-23) = -90$  is the lowest recorded temperature in Europe. What is Europe's lowest recorded temperature?  
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Circle the letter of the correct answer.

7. Which of the following is a solution to  $x + (-11) = -140$ ?  
A 12  
B -129  
C -151  
D -1,540
8. Which of the following is a solution to  $-110 + x = 19$ ?  
F 91  
G 129  
H -5  
J -2,090
9. Which of the following is a solution to  $5x = -75$ ?  
A -375  
B -80  
C -70  
D -15
10. Which of the following is a solution to  $-270 \div x = -30$ ?  
F 8,100  
G -300  
H 9  
J -240