

Grade 7 · Adding and Subtracting Integers and Rational Numbers · Test

Common Core 7.NS.A.1a, 7.NS.A.1b, 7.NS.A.1c, 7.NS.A.1d · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

This 45-minute test covers adding and subtracting integers, decimals, and fractions, plus distance on a number line (7.NS.A.1). It has nine questions worth 20 points in all. Show your work, and include units and signs in every answer.

Test information

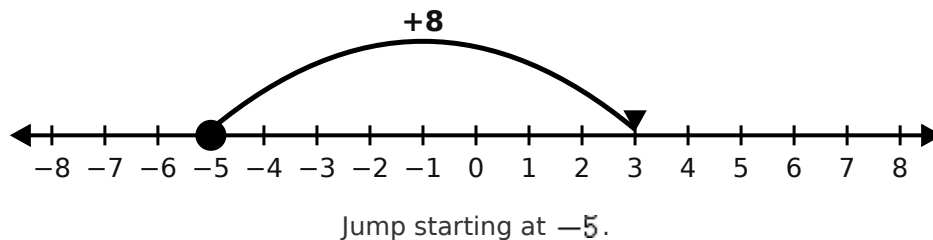
- **Grade:** Grade 7
- **Chapter:** Adding and Subtracting Integers and Rational Numbers
- **Common Core:** 7.NS.A.1a, 7.NS.A.1b, 7.NS.A.1c, 7.NS.A.1d
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 2 pts; Question 5: 2 pts; Question 6: 2 pts; Question 7: 3 pts; Question 8: 3 pts; Question 9: 2 pts)

Question 1: Opposites (2 points)

- Write the opposite of -13 . (1 point)
- Find $-18.5 + 18.5$. (1 point)

Question 2: Equation from a Number Line (2 points)

The number line shows a jump that starts at -5 .



Write the addition equation the number line shows.

Question 3: Adding Integers (2 points)

Find each sum.

- a. $-14+9$ (1 point)
- b. $-8+(-6)$ (1 point)

Question 4: Subtracting Integers (2 points)

Find each difference.

- a. $7-15$ (1 point)
- b. $-3-(-9)$ (1 point)

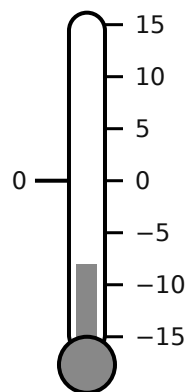
Question 5: Decimals and Fractions (2 points)

Evaluate each expression.

- a. $-2.75+1.5$ (1 point)
- b. $-\frac{1}{2}-\frac{3}{4}$ (1 point)

Question 6: Overnight Temperatures (2 points)

The thermometer shows the temperature at midnight. By noon it had risen 15°F . By evening it had fallen 11°F from the noon temperature.



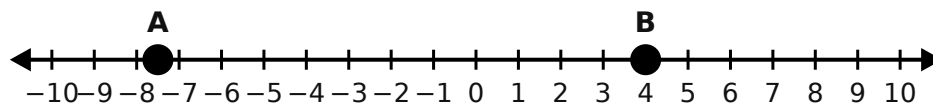
-8°F

Midnight temperature.

- a. Find the noon temperature. (1 point)
- b. Find the evening temperature. (1 point)

Question 7: Distance Between Points (3 points)

Points A and B are plotted on the number line.



Points A and B .

- Find the distance between A and B . (2 points)
- Point C is 5.5 units to the right of B . Find the coordinate of C . (1 point)

Question 8: Account Balance (3 points)

Jamal's account balance is $-\$18.40$. He makes the two transactions on the receipt.

Account activity	
Deposit	+\$50.00
Store purchase	-\$37.85

Jamal's transactions.

- Find the balance after the deposit. (1 point)
- Find the balance after the purchase. (1 point)
- How much more must Jamal deposit to reach a balance of $\$0$? (1 point)

Question 9: Find the Error (2 points)

Liam wrote $-6 - (-2) = -8$.

- Explain Liam's error. (1 point)
- Find the correct value. (1 point)