

Grade 7 - Adding and Subtracting Rational Numbers - Test

Common Core 7.NS.A.1 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This 45-minute test checks adding and subtracting integers, fractions, and decimals, including number line models, opposites, and absolute value as distance (Common Core 7.NS.A.1). It has 9 questions worth 20 points in all. Show your work, because most questions give partial credit for correct steps.

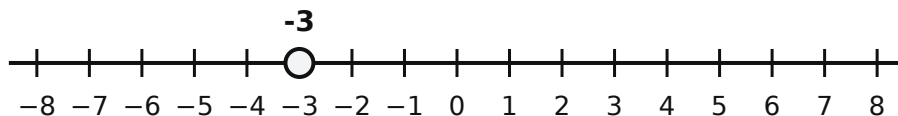
About this test

- Grade: Grade 7
- Chapter: Adding and Subtracting Rational Numbers
- Standards: 7.NS.A.1
- Time: 45 minutes
- Total: 20 points

Question 1 - Integer sums [2 pts]

Find each value. (a) $-14+9$ (b) $6-(-8)$ (c) $-11-5$ (d) $-7+(-13)$

Question 2 - Number line model [2 pts]



Start at -3.

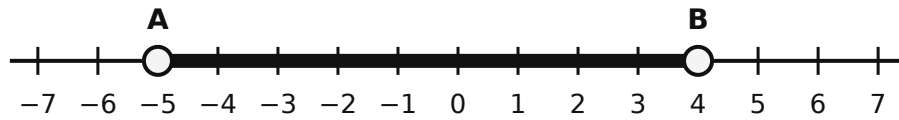
Use the number line to show the sum $-3+7$. Write the result and describe the move.

Question 3 - Decimals [2 pts]

Find (a) $-4.8+2.35$ and (b) $-0.6-1.75$.

Question 4 - Fractions [2 pts]

Find (a) $-\frac{2}{3} + \frac{3}{4}$ and (b) $\frac{1}{2} - (-\frac{5}{6})$.

Question 5 - Distance [2 pts]

Points A and B.

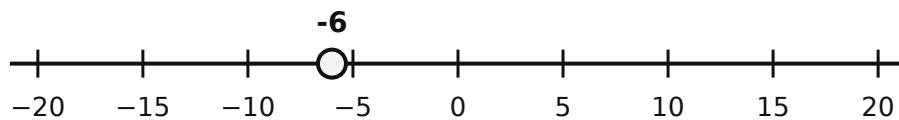
Points A and B are shown. Write an expression for the distance between A and B using absolute value, then find the distance.

Question 6 - Additive inverse [2 pts]

The sum of two numbers is 0. One of the numbers is -6.2 . Name the other number, and explain how you know using the number line.

Question 7 - Mixed operations [2 pts]

Find $-\frac{3}{4} + 1\frac{1}{2} - \frac{2}{3}$.

Question 8 - Temperature story [3 pts]

Morning temperature in degrees F.

At 6 a.m. the temperature was -6°F . It rose 15 degrees by noon and then fell 6 degrees by 6 p.m. (a) Find the noon temperature. (b) Find the 6 p.m. temperature. (c) Find the change from 6 a.m. to 6 p.m.

Question 9 - Lunch account [3 pts]

Day	Change	Balance
Mon	start	\$25.00
Tue	-\$18.75	?
Wed	-\$12.40	?
Thu	+\$20.00	?

Priya's lunch account.

Complete the balance column. Then tell on which day the account was overdrawn and by how much.