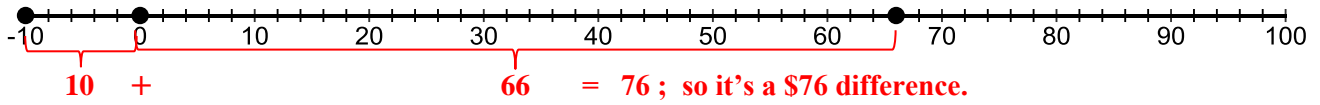


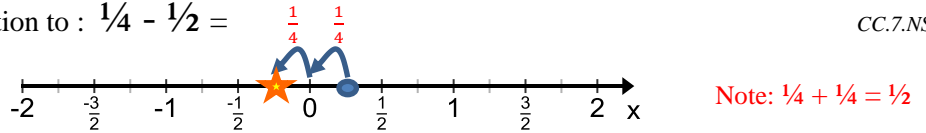
Study Guide 7th Grade
Unit 1b Common Assessment
Troup County Schools

1. What is the difference between a bank account balance of -\$10 and a bank account with \$66? CC.7.NS.1



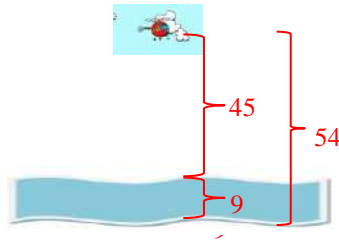
2. You get 11 miles per gallon of gas in your truck. How many gallons will it take for you to drive 398.2 miles? CC.7.NS.1
- $398.2 \div 11 = 36.2$ gallons**

3. Draw a number line with the solution to : $\frac{1}{4} - \frac{1}{2} =$ CC.7.NS.1



4. How many $\frac{3}{4}$ cups are in 15 cups? **$15 \div \frac{3}{4} = \frac{15}{1} \cdot \frac{4}{3} = \frac{60}{3} = 20$; So there are 20 of the $\frac{3}{4}$ cups in 15 cups.** CC.7.NS.1

5. A rock fell from a helicopter that was 45 feet in the air over the ocean. The rock landed 9 feet under water. How far did it fall all together? CC.7.NS.1

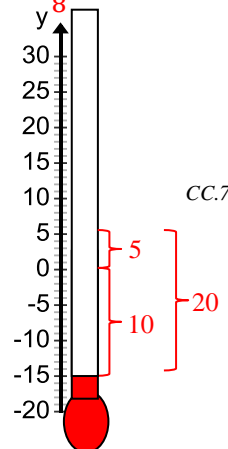


6. Evaluate. $-\frac{3}{5} + \frac{1}{6} = -\frac{18}{30} + \frac{5}{30} = -\frac{13}{30}$ CC.7.NS.1

7. Evaluate: $\frac{4(-10+14)}{-2} = \frac{4(4)}{-2} = \frac{16}{-2} = -8$ CC.7.NS.2

8. The numerical expression $\frac{1}{4} \left(8 - \frac{1}{2} \right)$ is equal to: $\frac{1}{4} \left(\frac{16}{2} - \frac{1}{2} \right) = \frac{1}{4} \cdot \frac{15}{2} = \frac{15}{8} = 1 \frac{7}{8}$ CC.7.NS.2

9. The thermometer shows the temperature at the North Pole when Chris woke up this morning. The temperature rose 20 degrees by noon. What was the temperature at noon? CC.7.NS.1
- Temperature at noon was 5°.**



10. Choose the two in the box that are equivalent to $-\frac{6}{7}$.

- A. **I and II**
- B. **II and IV**
- C. **III and IV**
- D. **I and III**

I. $\frac{6}{-7}$

II. $\frac{-6}{7}$

III. $\frac{-6}{-7} = \frac{6}{7}$ (neg. \div neg. = pos.)

IV. $-(-\frac{6}{7}) = \frac{6}{7}$ (neg. \div neg. = pos.)

CC.7.NS.2

11. Find the solution to the equation: $\frac{-4(-5)+(-3)}{2} = \frac{20+(-3)}{2} = \frac{17}{2} = 8\frac{1}{2}$

CC.7.NS.2

12. Evaluate: $(-\frac{3}{5})(\frac{5}{8}) = -\frac{15}{40} = -\frac{3}{8}$

CC.7.NS.2

13. Convert $\frac{4}{5}$ to a decimal. $4 \div 5 = 0.8$

CC.7.NS.2

14. Convert $\frac{25}{4}$ to a decimal. $25 \div 4 = 6\frac{1}{4}$

CC.7.NS.2

15. A tiny spider weighed 0.08 ounces. A large spider weighed 5 ounces. What is the difference between the weights of those 2 spiders? $5 - 0.08 = 4.92$ oz.

CC.7.NS.3

16. You have 9 math coins and each coin is worth -25 points. How many points is that all together? $-25 \cdot 9 = -225$ (It's like 9 quarters. 😊)

CC.7.NS.3

17. Find the solution. $\frac{12(-5)}{-3} = \frac{-60}{-3} = 20$ (negative \div negative = positive)

CC.7.NS.2

18. Amy knits $1\frac{1}{2}$ sweaters each week. If she's knitted 20 sweaters, which expression could be used to determine the number of weeks she worked?

CC.7.NS.1

- A. $20 - \frac{3}{2}$ B. $20 + \frac{3}{2}$ C. $20 \times \frac{3}{2}$ **D. $20 \div \frac{3}{2}$** (Need to divide total # of sweaters by $1\frac{1}{2}$)

19. You buy 12 folders that cost \$0.50 each and 3 pens that cost \$0.75 each. It is tax free day, so you don't have to pay tax. How much change should you get back if you pay with a \$20 bill?

CC.7.NS.1

$$.50 \cdot 12 = \$6.00 \quad \text{and} \quad .75 \cdot 3 = 2.25$$

$$6.00 + 2.25 = 8.25$$

$$\$20.00 - 8.25 = \$11.75$$