

Name: KEY Date: 11 SEPT 2019 Block: _____

1. Simplify the following expressions.

a. $(2) - (-4) = \underline{6}$

b. $(6) + (-3) = \underline{3}$

c. $(-18) - (-7) = \underline{-11}$

d. $(-10) + (-4) = \underline{-14}$

e. $(+5) + 6 = \underline{11}$

f. $11 - (-3) = \underline{14}$

g. $19 - (+20) = \underline{-1}$

h. $(-15) - (-6) = \underline{-9}$

i. $(-7) - (-7) = \underline{0}$

j. $(+22) + (-5) = \underline{17}$

k. $-1 - (-9) = \underline{8}$

l. $(+7) + 4 = \underline{11}$

m. $-10 - 10 = \underline{-20}$

n. $16 - -8 = \underline{24}$

o. $14 - (+6) = \underline{8}$

p. $(+60) + (-10) = \underline{50}$

q. $(49) - (-3) = \underline{49}$

r. $(+56) + (-21) = \underline{35}$

2. Simplify the following expressions.

a. $-8 + 4 - -9 = \underline{5}$

b. $(-8) + (-3) - (-20) = \underline{9}$

c. $-30 + 17 - -5 = \underline{-8}$

d. $10 - 14 + (-2) = \underline{-6}$

e. $5 - (-11) + (-13) = \underline{3}$

f. $6 - (-2) - 15 = \underline{-11}$

g. $-35 - (-8) + (-20) = \underline{-47}$

h. $(-24) + -2 - (-13) = \underline{-13}$

i. $36 + (-9) - 4 = \underline{23}$

j. $-4 - 3 + -4 = \underline{-11}$

k. $-8 - (-2) + -7 = \underline{-13}$

l. $-31 - (-8) + 3 = \underline{-20}$

m. $48 + -16 + -14 = \underline{18}$

n. $6 - (-2) - 19 + 16 = \underline{5}$

o. $-3 - (-13) - 10 - 3 = \underline{-23}$

p. $-30 + 15 - (-9) - 6 = \underline{-12}$

q. $5 - (-4) + 9 - 25 = \underline{-7}$

r. $23 - 12 - -7 + -15 = \underline{3}$

3. Determine the missing number.

a. $\underline{9} \pm (-6) = 3$

b. $7 - \underline{11} = -4$

c. $-11 + \underline{-4} = -15$

d. $9 + \underline{-14} = -5$

e. $-8 - \underline{-24} = 16$

f. $-3 - \underline{-3} = 0$

g. $28 - \underline{13} = 15$

h. $-6 - \underline{4} = -10$

i. $-12 + \underline{30} = 18$

j. $-37 - \underline{-52} = 15$

k. $-23 + \underline{11} = -12$

l. $24 - \underline{27} = -3$

m. $\underline{-11} \pm 6 = -5$

n. $\underline{-5} = (-7) = 2$

o. $\underline{8} \pm -17 = -9$

p. $\underline{-4} \pm (-4) = -8$

q. $\underline{-15} - 12 = -3$

r. $\underline{-9} = 4 = -15$

4. Solve the following Problems

- a. Find the difference between 5 and -4

$$5 - (-4) = 9$$

- c. -16 is how much less than -3?

$$-3 - (-16) = 13$$

- e. How much greater is 8 than -8?

$$-8 + 16 = 8$$

5. Solve the following Problems

- a. A number decreased by 16 is -26. What is the number?

$$-10 - 16 = -26$$

- c. Seven less than a number is 18. Find the number.

$$25 - 7 = 18$$

- e. Four more than a number increased by 7 is 12. Find the number.

$$1 + 4 + 7 = 12$$

6. Solve the following problems.

- a. A Bank account has a \$357 balance. A check is written for \$486. What is the new balance?

$$357 - 486 = -\$129.00$$

- c. The temperature in Tahiti is 27°C and the temperature in Siberia is -33°C. What is the difference in their temperatures?

$$27 - (-33) = 60^{\circ}\text{C}$$

- e. The Roman republic was established in 509 BC and fell 985 years later. In what year did the Roman Empire Fall?

$$985 - 509 = 476 \text{ AD}$$

- b. How much more is 13 than -11?

$$-11 + 24 = 13$$

- d. How far apart is -13 and 5?

$$-13 - 5 = -18$$

- f. What is the sum of 5 and -19?

$$5 + (-19) = -14$$

- b. Nine more than a number is 32. Find the number.

$$23 + 9 = 32$$

- d. Find a number three less than the sum of 4 and -9.

$$4 + (-9) - 3 = -8$$

- f. Find a number five more than the difference of 15 and 5.

$$(15 - 5) + 5 = 15$$

- b. Denver is 5130 meters above sea level. New Orleans is -8 meters above sea level. What is their difference in altitude?

$$5130 - (-8) = 5138 \text{ m}$$

- d. At 8 am the temperature is -15°C. 1 hour later, the temperature rose by 6°C. What is the temperature at 9 am?

$$-15 + 6 = -9^{\circ}\text{C}$$

- f. Mike has \$15 and Jeff has \$8. How much less money does Jeff have than Mike?

$$15 - 8 = \$7$$