

Name: _____ Date: _____ Block: _____

1. Simplify the following expressions.

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

b. $(56) \div (-7) = \underline{\hspace{2cm}}$

c. $(-5)(-4) = \underline{\hspace{2cm}}$

d. $(6)(-8) = \underline{\hspace{2cm}}$

e. $(12) \div (-3) = \underline{\hspace{2cm}}$

f. $(-9)(-8) = \underline{\hspace{2cm}}$

g. $(-44) \div (-11) = \underline{\hspace{2cm}}$

h. $(-7)(6) = \underline{\hspace{2cm}}$

i. $(18) \div (-3) = \underline{\hspace{2cm}}$

j. $(-96) \div (12) = \underline{\hspace{2cm}}$

k. $(-64) \div (-8) = \underline{\hspace{2cm}}$

l. $(7)(-7) = \underline{\hspace{2cm}}$

m. $(26) \times (-2) = \underline{\hspace{2cm}}$

n. $(-9) \times (-11) = \underline{\hspace{2cm}}$

o. $(-39) \div (13) = \underline{\hspace{2cm}}$

p. $(-2) \times (-17) = \underline{\hspace{2cm}}$

q. $(84) \div (-21) = \underline{\hspace{2cm}}$

r. $(-63) \div (-9) = \underline{\hspace{2cm}}$

2. Simplify the following expressions.

a. $-5 \times -4 = \underline{\hspace{2cm}}$

b. $-27 \div 9 = \underline{\hspace{2cm}}$

c. $12 \times -2 = \underline{\hspace{2cm}}$

d. $-10 \times 6 = \underline{\hspace{2cm}}$

e. $-45 \div -5 = \underline{\hspace{2cm}}$

f. $24 \div -6 = \underline{\hspace{2cm}}$

g. $80 \div -10 = \underline{\hspace{2cm}}$

h. $0 \times -7 = \underline{\hspace{2cm}}$

i. $-8 \times -2 = \underline{\hspace{2cm}}$

j. $-40 \div 5 = \underline{\hspace{2cm}}$

k. $-1 \times -12 = \underline{\hspace{2cm}}$

l. $-7 \times -3 = \underline{\hspace{2cm}}$

m. $\frac{-25}{5} = \underline{\hspace{2cm}}$

n. $\frac{-16}{-4} = \underline{\hspace{2cm}}$

o. $\frac{-32}{8} = \underline{\hspace{2cm}}$

p. $\frac{-46}{-2} = \underline{\hspace{2cm}}$

q. $\frac{0}{-13} = \underline{\hspace{2cm}}$

r. $\frac{15}{-3} = \underline{\hspace{2cm}}$

3. Simplify the following expressions.

a. $-4 \times -3 \times 2 = \underline{\hspace{2cm}}$

b. $-3 \times -3 \times -3 = \underline{\hspace{2cm}}$

c. $-1 \times 11 \times 5 = \underline{\hspace{2cm}}$

d. $(-5)(-4)(-2) = \underline{\hspace{2cm}}$

e. $(0)(-11)(-13) = \underline{\hspace{2cm}}$

f. $(-1)(-2)(-3)(-2) = \underline{\hspace{2cm}}$

g. $60 \div (-10) \div (-2) = \underline{\hspace{2cm}}$

h. $(-24) \div (-2) \div (-3) = \underline{\hspace{2cm}}$

i. $36 \div (-9) \div 4 = \underline{\hspace{2cm}}$

j. $-48 \div 3 \div -4 = \underline{\hspace{2cm}}$

k. $-98 \div -2 \div -7 = \underline{\hspace{2cm}}$

l. $-72 \div -8 \div 3 = \underline{\hspace{2cm}}$

m. $(-1)^2 = \underline{\hspace{2cm}}$

n. $(-1)^5 = \underline{\hspace{2cm}}$

o. $(-1)^{13} = \underline{\hspace{2cm}}$

p. $(-1)^{26} = \underline{\hspace{2cm}}$

q. $(-1)^{47} = \underline{\hspace{2cm}}$

r. $(-1)^{100} = \underline{\hspace{2cm}}$

4. Determine the missing number.

a. $\underline{\hspace{1cm}} \times -6 = 30$

b. $7 \times \underline{\hspace{1cm}} = -42$

c. $-12 \times \underline{\hspace{1cm}} = -108$

d. $9 \times \underline{\hspace{1cm}} = -54$

e. $-8 \times \underline{\hspace{1cm}} = 16$

f. $-3 \times \underline{\hspace{1cm}} = 33$

g. $28 \div \underline{\hspace{1cm}} = -14$

h. $-36 \div \underline{\hspace{1cm}} = -9$

i. $-42 \div \underline{\hspace{1cm}} = 7$

j. $-54 \div \underline{\hspace{1cm}} = 6$

k. $-52 \div \underline{\hspace{1cm}} = -13$

l. $24 \div \underline{\hspace{1cm}} = -3$

m. $\underline{\hspace{1cm}} \div 6 = -3$

n. $\underline{\hspace{1cm}} \div -7 = 2$

o. $\underline{\hspace{1cm}} \div -11 = -6$

p. $\underline{\hspace{1cm}} \div -4 = -8$

q. $\underline{\hspace{1cm}} \div 12 = -3$

r. $\underline{\hspace{1cm}} \div -4 = -4$

5. Determine the value of x .

a. $(7) \cdot x = -35$

b. $x \cdot 34 = -68$

c. $(-15) \cdot x = -45$

d. $(-4)(-2)(x) = -48$

e. $(-3)(x)(3) = 90$

f. $(x)(-7)(-2) = 28$

g. $-9 \div x = 3$

h. $-36 \div x = 6$

i. $52 \div x = -13$

j. $\frac{-64}{x} = -8$

k. $\frac{-81}{x} = 9$

l. $\frac{144}{x} = -12$

m. $\frac{x}{20} = -5$

n. $\frac{x}{-16} = 4$

o. $\frac{x}{-11} = -12$

6. Solve the following problems.

- a. A skydiver is dropping at a rate of 40 meters per second. What is the change in elevation after 3 seconds?
- b. A football team loses 6 yards on each of 4 consecutive plays. How many yards did they lose?
- c. The population of a city decreases by 40 residents a year. How many years will it take for the city to lose 360 residents?
- d. The current temperature is 0°C an hour. 12 hours later, the temperature is -36°C . What was the average temperature change by hour?
- e. The value of a car depreciates by \$1,500 a year. If a car is currently worth \$20,000, how many years will it take before the value of the car is \$16,000?
- f. A stock is currently worth \$46.00 a share. If the price of the stock drops by \$2.00 a day, in how many days will the stock be worth just \$22?