

Lesson 1 Assignment
Working with Integers

1. The temperature was -7° C. It is now 4° C. How much did the temperature change?
2. Place a greater than sign ($>$) or less than sign ($<$) between each set of integers to make each statement correct.
- a. $+5$ $+8$ b. 0 $+9$ c. $+4$ -3 d. -5 $+5$
 e. -5 -2 f. $+12$ -12 d. -13 -17 h. -12 -11

3. Simplify

- a. $(+4) + (+3)$ b. $(-6) + (-4)$ c. $-3 - 7$
 d. $(-2) + (-4) - (-5)$ e. $(+2) - (+1)$ f. $(-4) - (-2)$
 g. $0 - (-2)$ h. $(-12) + (-2) - (-7)$ i. $(-5) - (+5) - (-3)$
 j. $5 - 2 - 8 + 3 - 1$ k. $-3 - 9 + 1 - (-2) + 4$ l. $14 - 11 - 8 + 12 - 2$
 m. $(-4 + 6) - (3 - 7)$ n. $(-9 + 4) - (7 - 9)$ o. $(10 - 9) + (8 - 10)$

4. Simplify

- a. $(-2)(+6)$ b. $(-7)(-8)$ c. $(+5)(-5)$
 d. $(-7)(-6)$ e. $(-2)(+5)(-7)$ f. $(-3)(-4)(-2)$
 g. $(-1)(+3)(-3)$ h. $(+2)(-3)(-3)$ i. $(-1)(-2)(-3)(-4)$
 j. $(-2)(+3) + (-6)(-2)$ k. $(-4)(-3) + (-1)(-2)$ l. $(-2)(-6) - (+5)(-2)$
 m. $(-2)(-2)(+1) + (-3)(-3)(-1)$ n. $(-5)(-2)(-2) - (+2)(-1)(-1)$ o. $(0)(-1)(+1) - (+2)(-2)(+3)$

5. Simplify

- a. $(-12) \div (+4)$ b. $(-36) \div (-4)$ c. $(+16) \div (-8)$
 d. $\frac{-36}{4}$ e. $\frac{-18}{-9}$ f. $\frac{81}{-9}$
 g. $\frac{(2)(-10)}{-5}$ h. $\frac{(-4)(+6)}{(+2)(-3)}$ i. $\frac{(-6)(-8)}{(-2)(-1)(-3)}$
 j. $\frac{-30}{5} + \frac{15}{(-3)}$ k. $\frac{(-20)}{10} + \frac{8}{(-2)}$ l. $\frac{(-42)}{7} - \frac{54}{(-6)}$

6. Simplify and do not answer as a decimal.

a. $\frac{(4)(-5)}{(-3)(3)}$

b. $\frac{(-7)(2)(1)}{(5)(-3)}$

c. $\frac{(6)(-4)}{0 + (-11)}$

Answers

1. 11^0 C

2. a. $+5 < +8$

b. $0 < +9$

c. $+4 > -3$

d. $-5 < +5$

e. $-5 < -2$

f. $+12 > -12$

d. $-13 > -17$

h. $-12 < -11$

3. a) 7

b) -10

c) -10

d) -1

e) 1

f) -2

g) 2

h) -7

i) -7

j) -3

k) -5

l) 5

m) 6

n) -3

o) -1

4. a) -12

b) 56

c) -25

d) 42

e) 70

f) -24

g) 9

h) 18

i) 24

j) 6

k) 14

l) 22

m) -5

n) -22

o) 12

5. a) -3

b) 9

c) -2

d) -9

e) 2

f) -9

g) 4

h) 4

i) -8

j) -11

k) -6

l) 3

6. a) $\frac{20}{9}$

b) $\frac{14}{15}$

c) $\frac{24}{11}$