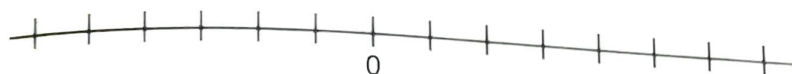


EXERCISE 1:

1. Fill in the following numbers on the number line below:

$$-3; -2^2; -\frac{3}{2}; \sqrt{4}; \sqrt[3]{-1}$$



2. Fill in the following: < or >

a. -3 _____ 5

b. 0 _____ -8

c. -5 _____ -6

d. -5×-4 _____ -6×4

e. -5^2 _____ $(-5)^2$

f. $-8 + 6$ _____ $-6 + 8$

3. In each of the following, put a circle around the smallest integer and a square around the largest integer.

a. $-7; 8; -2; 5$

b. $-5; -6; -4; 0$

c. $-123; -122; -124; -121$

REMEMBER:

Positive numbers are also integers.

4. Write down the largest negative integer. _____

5. Simplify the following:

a. $-4 + 3$

b. $3 \times (-8)$

c. $-7 - 6$

d. $-5 + 6 - 8$

e. $-5 \times 4 \div (-2)$

f. $-2 + 2 \times 2 - 2$

g. $-3 \times 4 + 5$

h. $(-2)(3) + (-1)$

i. $(-2) + (-3)(-1)$

j. $(-1)^3$

k. $(-1)^{2001}$

l. $(-2)^3$

m. $\sqrt{10 - (-6)}$

n. $\sqrt[3]{-8}$

o. $-(-1)^2$

p. $2(-1) \times (-3)^2$

q. $6^2 - (-3)^2$

r. $(5 - 8)^2 - (-2)^3$

s. $\sqrt[3]{3^2 - (-1)^2}$

t. $\sqrt{1\frac{17}{64}}$

EXERCISE 1:

1. Write the following in exponential form:

a. $x \times x \times x \times x \times x \times x \times x \times x$

b. $2 \times 2 \times 3 \times 2 \times 3 \times 3 \times 2 \times 3 \times 2$

c. $y \times x \times y \times z \times x \times y$

d. $a \times a \times b \times b \times b \times a$

2. Write the following in expanded form:

a. $2x^4 y^2$

b. $3a^4 bc^3$

c. $7p^4 q^6$

d. $9t^4 p^5$

3. Simplify the following:

a. $x^5 \times x^5$

b. $2x \times 3x^3 \times -x^2$

c. $x^9 \div x^3$

d. $3^4 \times 3^7 \times 3^9$

e. $3^8 \div 3^7$

f. $y^4 z^6 \times (y^3 z)^0$

g. $\frac{15x^6 a^9}{3x^3 a^7}$

h. $\frac{-6x^9 \times x^2}{x^8}$

i. $(x^6)^5$

j. $(2^4 \times 3^7)^3$

k. $(x^6, y^2)^3$

l. $\left(\frac{3m^3}{m^2}\right)^0$
