

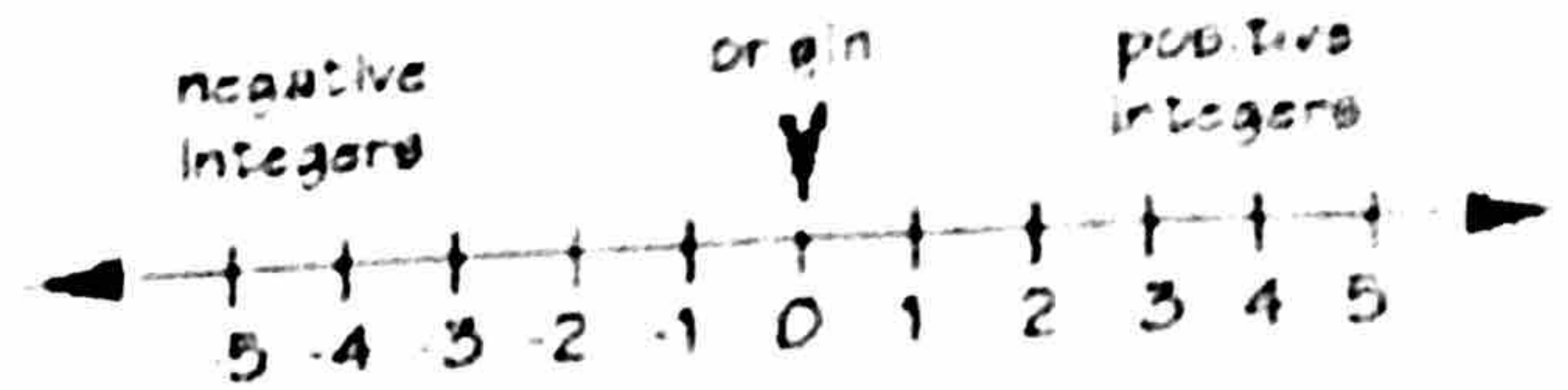
Integers (SOL 6.3 a & b)

An integer is any number from the set $\{\dots, -4, -3, -2, -1, 0, 1, 2, 3, 4, \dots\}$ where ... means continues without end.

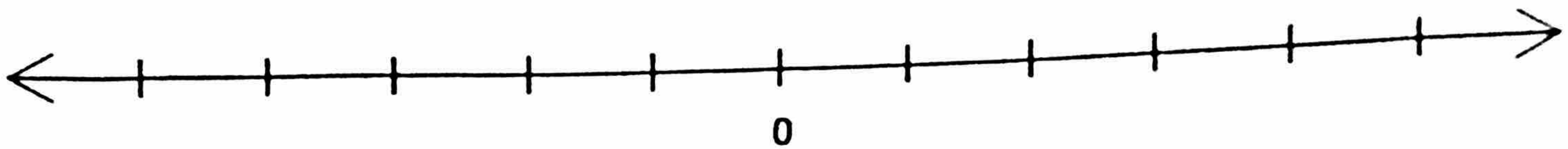
• Negative integers are integers _____ than zero.

• Positive integers are integers _____ than zero.

• _____ is neither negative nor positive. We call it the origin.



Number the number line from -5 to 5.



These numbers are **Integers**: 0; 3; -100; 432; 987,654,321; $\frac{10}{2}$; $-\frac{6}{3}$; $\frac{99}{9}$

These numbers are **not Integers**: 7.2, $\frac{10}{4}$, $-\frac{5}{8}$, -3.7

Write Integers for Real-Life Situations

a gain of 5 yards on the first down.

a temperature of 10 degrees below zero.

You Try! Underline key words

a. Lost 6 points

b. 3 strokes below par

c. \$5 deposit

d. A loss of \$30

e. descend 20 meters

f. 12 centimeters longer

6 feet below sea level

a \$35 withdrawal

h. 5000 feet above sea level

i. 7 inches below normal

j. \$5 off the original price

k. ascend 100 meters

l. 10 strokes above par

m. 6 yard loss

Representation of Integers

Sheet 1

Write an integer to represent each situation mentioned below:

- 1) James withdrew \$80 from his bank account.

- 2) Harry adds 18 more toy cars to his collection.

- 3) Kevin took 5 crayons to school and lost them all.

- 4) Lillian received \$10 as pocket money from her dad.

- 5) Mr. Johnson was fined \$13 as he failed to pay the telephone bill on time.

- 6) Anna's vegetable patch yielded 26 tomatoes in all.

- 7) Danny distributed 19 cupcakes to his friends on Thanksgiving Day.

- 8) Jim's friend gave him 7 candies.

- 9) Boston recorded a subzero temperature of 31°F .

- 10) The University basket ball match team lost their 12 points lead in the final quarter of the match.
