

# Grade 7 Integers Practice

## 1. Representation

a) Write an integer (with sign) to represent:

- i) A loss of \$25
- ii) 18 metres above sea level
- iii) 12°C below zero

b) Describe a situation that could be represented by (-7).

## 2. Number Line

Plot the following integers on a number line:

(-15), (+8), (-3), (0), (+12)

- a) Which number is farthest from (0)?
- b) Which number is closest to (0), excluding (0)?

## 3. Comparing Integers

Use <, >, or =:

- a) (-8) \_\_\_\_ (+5)
- b) (-12) \_\_\_\_ (-3)
- c) (0) \_\_\_\_ (-1)
- d) (-25) \_\_\_\_ (-25)

## 4. Ordering

Order from least to greatest:

(+7), (-19), (+4), (-2), (0), (-11)

## 5. Absolute Value

- a)  $|(-9)| =$  \_\_\_\_
- b)  $|(+14)| =$  \_\_\_\_
- c)  $|(-27)| =$  \_\_\_\_
- d) Which is greater:  $|(-13)|$  or  $|(+8)|$ ?

## 6. Addition

- a)  $(+8) + (-5) =$  \_\_\_\_
- b)  $(-12) + (+6) =$  \_\_\_\_
- c)  $(-9) + (-7) =$  \_\_\_\_
- d)  $(+15) + (-18) =$  \_\_\_\_

## 7. Subtraction

- a)  $(+10) - (+6) =$  \_\_\_\_
- b)  $(-4) - (+9) =$  \_\_\_\_
- c)  $(+7) - (-5) =$  \_\_\_\_
- d)  $(-11) - (-3) =$  \_\_\_\_

## 8. Multiplication

- a)  $(-6)(+4) =$  \_\_\_\_
- b)  $(-7)(-3) =$  \_\_\_\_
- c)  $(+5)(-8) =$  \_\_\_\_
- d)  $(-9)(0) =$  \_\_\_\_

9. Division

a)  $(+24) \div (-6) = \underline{\quad}$

b)  $(-21) \div (+7) = \underline{\quad}$

c)  $(-36) \div (-9) = \underline{\quad}$

d)  $(0) \div (-5) = \underline{\quad}$

10. Problem Solving

A submarine starts at  $(-20)$  metres. It rises  $(+13)$  metres, then moves  $(-9)$  metres.

a) What is the final position?

b) Is it above or below  $(0)$ ?

c) How far is it from  $(0)$ ?