# TB(1A) Ch. 1 Directed Numbers & the Number Line

# **Multiple Choice Questions**

### 1. [11-12 Standardized Test 1, 3]

Arrange the numbers 4.6, 0,  $-4\frac{2}{3}$ , -4.5and 5% in ascending order.

A.  $-4\frac{2}{3}, -4.5, 0, 5\%, 4.6$ B.  $-4.5, -4\frac{2}{3}, 0, 5\%, 4.6$ C.  $4.6, 5\%, 0, -4.5, -4\frac{2}{3}$ D.  $4.6, 5\%, 0, -4\frac{2}{3}, -4.5$ 

## 2. [11-12 Standardized Test 1, 4]

Which of the following should be added to

 $-\left(\frac{2}{-7}\right) + \left(-\frac{4}{9}\right) \text{ so that the sum is zero?}$ A.  $-\left(\frac{2}{-7}\right) - \left(-\frac{4}{9}\right)$ B.  $-\left(-\frac{2}{7}\right) + \left(-\frac{4}{9}\right)$ C.  $-\left(+\frac{2}{7}\right) - \left(-\frac{4}{9}\right)$ D.  $+\left(\frac{-2}{7}\right) + \left(\frac{4}{-9}\right)$ [11-12 Standardized Test 1, 10]

3.

Peter's weight was 80 kg in January. Then his weight had the following changes: +4 kg from January to February, -2 kg from February to March and -1.5 kg from March to April where a positive number represented an increase in his weight. What was the change from April to May if his weight was 82.5 kg in May? B. -2 kg
C. +2 kg
D. +5 kg

**A.** −5 kg

- **4.** [11-12 Mid-year, 2] Find the result of "3 times the sum of −2 and −6, then subtract it from −8".
  - A. -32
     B. -16

     C. 4
     D. 16

$$\left[-8\div\left(\frac{3}{10}-\frac{2}{5}\right)\right]-(-12)\times\frac{2}{3}\div\left(-\frac{4}{5}\right)=$$

6. [11-12 Final Exam, 1] Arrange  $-0.6, -\frac{3}{4}, \frac{2}{3} \text{ and } -\frac{5}{7} \text{ in descending order.}$ 

A. 
$$\frac{2}{3}$$
,  $-\frac{3}{4}$ ,  $-\frac{5}{7}$ , -0.6  
B.  $\frac{2}{3}$ , -0.6,  $-\frac{5}{7}$ ,  $-\frac{3}{4}$   
C. -0.6,  $-\frac{5}{7}$ ,  $-\frac{3}{4}$ ,  $\frac{2}{3}$   
D.  $-\frac{3}{4}$ ,  $-\frac{5}{7}$ , -0.6,  $\frac{2}{3}$ 

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7. [11-12 Final Exam, 2]  
$$-2^2 - (-3)^2 \times (2-4)^2 =$$

A.	-52	В.	-40
C.	32	D.	20

# 8. [12-13 Standardized Test 1]

Refer to the number line below, which of the following are possible values of *A* and *B* if B-A=12?

- **B.** A = -4.2, B = 7.8
- **C.** A = 2, B = 10
- **D.** A = 7, B = -5

## 9. [12-13 Standardized Test 1]

If a is a negative number, determine the sign of the value of a a - a a a - a.

A. Positive

**B.** Negative

- C. Neither positive nor negative
- **D.** Cannot be determined

### 10. [12-13 Standardized Test 1]

If 
$$\frac{3 \times (-3) + (2+7)(-10)}{b+4.67}$$
 is positive, which of

the following is a possible value of b?

- **A.** 0
- **B.** 4.66
- **C.** 4.67
- **D.** 4.68

# 11. [12-13 Mid-year 1]

Arrange  $\frac{1}{4}$ ,  $-\frac{1}{3}$ , -1 and 0.5 in

ascending order.

A. 
$$-1$$
,  $-\frac{1}{3}$ ,  $\frac{1}{4}$ , 0.5  
B.  $-\frac{1}{3}$ ,  $-1$ ,  $\frac{1}{4}$ , 0.5  
C. 0.5,  $\frac{1}{4}$ ,  $-1$ ,  $-\frac{1}{3}$   
D. 0.5,  $\frac{1}{4}$ ,  $-\frac{1}{3}$ ,  $-1$ 

### 12. [12-13 Final Exam, 1]

Which of the following expressions has the largest value?

**A.**  $3(-2^2)$  **B.**  $-2(3)^3$  **C.**  $-2(-3)^2$ **D.**  $-3(-2^2)$ 

## 13. [13-14 Standardized Test 1]

Arrange	$-\frac{4}{5}$	,	$-\frac{5}{4}$ ,	$\frac{5}{4}$	and	$\frac{4}{5}\%$	in
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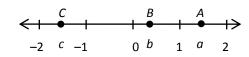
descending order.

A. 
$$-\frac{5}{4}$$
,  $-\frac{4}{5}$ ,  $\frac{4}{5}$ %,  $\frac{5}{4}$   
B.  $-\frac{4}{5}$ ,  $-\frac{5}{4}$ ,  $\frac{4}{5}$ %,  $\frac{5}{4}$   
C.  $\frac{5}{4}$ ,  $\frac{4}{5}$ %,  $-\frac{5}{4}$ ,  $-\frac{4}{5}$   
D.  $\frac{5}{4}$ ,  $\frac{4}{5}$ %,  $-\frac{4}{5}$ ,  $-\frac{5}{4}$ 

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## 14. [13-14 Standardized Test 1]

*A*, *B* and *C* are three points on a number line representing the numbers *a*, *b* and *c* respectively. Which of the following expressions has the largest value?



- A.  $b^2$
- **B.** *ab*
- **C.** a c
- **D.** a + b + c

# 15. [13-14 Mid-year Exam]

Which of the following is equal to -3?

A. 
$$\frac{(-9)(+4) - (-3)(-6)}{+6}$$
B. 
$$\frac{(-9)(+4) + (-3)(-6)}{+6}$$
C. 
$$\frac{(+9)(-4) + (-3)(-6)}{-6}$$
D. 
$$\frac{(-9)(-4) - (+3)(-6)}{-6}$$

### 16. [13-14 Mid-year Exam]

A bird is 5 m above the sea level and a submarine is 21 m below the sea level. Find the distance between the bird and the submarine.

Α.	– 26 m	В.	-16 m
C.	16m	D.	26 m

### 17. [13-14 Final Exam]

Which of the following expressions is equal to 9?

**A.** 
$$-3^2$$
  
**B.**  $-3^3$   
**C.**  $(-3)^2$   
**D.**  $(-3)^3$ 

### 18. [14-15 Mid-year Exam]

Which of the following gives a positive result?

A. 
$$(-0.75)(1.28)(-0.1)(-5) \div 3$$

**B.** 
$$10 - \frac{1}{2}(-20) + 0.1 \times 5.27$$
  
**C.**  $\frac{(-1)(-2)(-3)(-4)(-5)}{(0.1)(-0.2)(0.3)(-0.4)(0.5)}$ 

**D.** 
$$(1-2+3-4+5-6+7-8+9-10)^3$$

### **19.** [14-15 Mid-year Exam]

If 
$$a > 0$$
,  $b < 0$  and  $c < 0$ , then

- $\mathbf{A.} \quad a-b-c<0.$
- **B.** abc < 0.

$$\mathbf{C.} \quad \frac{ab}{c} + bc > 0.$$

$$\mathbf{D.} \quad \frac{a-b}{b+c} > 0$$

### 20. [14-15 Mid-year Exam]

A school is located 25 km west to a park. The park is 10 km east to a mall. Which of the following is correct?

- A. The school is 35 km west to the mall.
- B. The school is 15 km west to the mall.
- C. The school is 35 km east to the mall.
- D. The school is 15 km east to the mall.

### 21. [14-15 Final Exam]

Arrange -0.3,  $-\frac{3}{4}$ ,  $\frac{3}{2}$  and  $\frac{2}{3}$  in descending order. **A.** -0.3,  $-\frac{3}{4}$ ,  $\frac{3}{2}$ ,  $\frac{2}{3}$ **B.**  $-\frac{3}{4}$ , -0.3,  $\frac{3}{2}$ ,  $\frac{2}{3}$ **C.**  $\frac{2}{3}$ ,  $\frac{3}{2}$ , -0.3,  $-\frac{3}{4}$ **D.**  $\frac{3}{2}$ ,  $\frac{2}{3}$ , -0.3,  $-\frac{3}{4}$ 

# 22. [15-16 Mid-year Exam]

Which of the following is the result of the word phrase "multiply -5 by 6, and then subtract the product from 30"?

- **A.** 60
- **B.** 0
- **C.** 30
- **D.** 60

# 23. [15-16 Mid-year Exam]

Which of the following does not have zero value?

- **A.**  $(2-2) \div (2 \div 2)$
- **B.**  $(2 \times 0) \div (2 + 2)$
- **C.**  $(2-2) \times (2 \div 2)$
- **D.**  $(2 \div 2) \div (2 2)$

24. [15-16 Mid-year Exam]

$$-4 + [-2 + 12 \div (-19 + 21) \div (-3)] =$$
**A.** -8.  
**B.**  $-5\frac{2}{3}$ .  
**C.** -4.  
**D.** 0.

## 25. [15-16 Final Exam, #2]

Which of the following statements are wrong?

- I. -2 + 4 = -6
- II. -2(-3) = -5
- 111.  $2 + 3 \times 4 = 20$
- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

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