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

Multiple Choice Questions

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

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

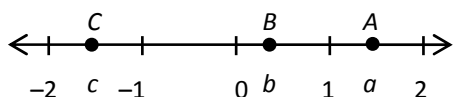**A.** $-\dfrac{5}{4}$, $-\dfrac{4}{5}$, $\dfrac{4}{5}\%$, $\dfrac{5}{4}$

B. $-\dfrac{4}{5}$, $-\dfrac{5}{4}$, $\dfrac{4}{5}\%$, $\dfrac{5}{4}$

C. $\dfrac{5}{4}$, $\dfrac{4}{5}\%$, $-\dfrac{5}{4}$, $-\dfrac{4}{5}$

D. $\dfrac{5}{4}$, $\dfrac{4}{5}\%$, $-\dfrac{4}{5}$, $-\dfrac{5}{4}$

2. **[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. $a + b + c$

3. **[13-14 Mid-year Exam]**

Which of the following is equal to -3?

A. $\dfrac{(-9)(+4)-(-3)(-6)}{+6}$

B. $\dfrac{(-9)(+4)+(-3)(-6)}{+6}$

C. $\dfrac{(+9)(-4)+(-3)(-6)}{-6}$

D. $\dfrac{(-9)(-4)-(+3)(-6)}{-6}$

4. **[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.

A. $-26\,\text{m}$ **B.** $-16\,\text{m}$
C. $16\,\text{m}$ **D.** $26\,\text{m}$

5. **[13-14 Final Exam]**

Which of the following expressions is equal to 9?

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

6. **[14-15 Mid-year Exam #2]**

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.

7. **[14-15 Mid-year Exam #12]**

Which of the following gives a positive result?

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

B. $10-\dfrac{1}{2}(-20)+0.1\times 5.27$

C. $\dfrac{(-1)(-2)(-3)(-4)(-5)}{(0.1)(-0.2)(0.3)(-0.4)(0.5)}$

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

8. **[14-15 Mid-year Exam #13]**

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

A. $a - b - c < 0$.

B. $abc < 0$.

C. $\dfrac{ab}{c} + bc > 0$.

D. $\dfrac{a-b}{b+c} > 0$.

9. **[14-15 Final Exam #2]**

Arrange -0.3, $-\dfrac{3}{4}$, $\dfrac{3}{2}$ and $\dfrac{2}{3}$ in descending order.

A. -0.3, $-\dfrac{3}{4}$, $\dfrac{3}{2}$, $\dfrac{2}{3}$

B. $-\dfrac{3}{4}$, -0.3, $\dfrac{3}{2}$, $\dfrac{2}{3}$

C. $\dfrac{2}{3}$, $\dfrac{3}{2}$, -0.3, $-\dfrac{3}{4}$

D. $\dfrac{3}{2}$, $\dfrac{2}{3}$, -0.3, $-\dfrac{3}{4}$

10. **[15-16 Mid-year Exam #2]**

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

11. **[15-16 Mid-year Exam #12]**

$-4 + [-2 + 12 \div (-19 + 21) \div (-3)] =$

A. –8.

B. $-5\dfrac{2}{3}$.

C. – 4.
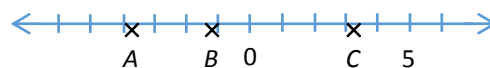
D. 0.

12. **[15-16 Final Exam, #2]**

Which of the following statements are wrong?

I. $-2 + 4 = -6$

II. $-2(-3) = -5$

III. $2 + 3 \times 4 = 20$

A. I and II only

B. I and III only

C. II and III only

D. I, II and III

13. **[16-17 Standardized Test, #6]**

The figure shows the positions of three numbers A, B and C on the number line. Estimate the value of the expression $(A - B)C$.

A. –15

B. –9

C. 9

D. 15

14. **[16-17 Mid-year Exam, #3]**

Arrange -1, $-1\dfrac{1}{2}$, 1 and $\dfrac{1}{2}$ in descending order.

A. $-1\dfrac{1}{2}$, -1, $\dfrac{1}{2}$, 1

B. $\dfrac{1}{2}$, 1, $-1\dfrac{1}{2}$, -1

C. 1, $\dfrac{1}{2}$, $-1\dfrac{1}{2}$, -1

D. 1, $\dfrac{1}{2}$, -1, $-1\dfrac{1}{2}$

15. **[16-17 Mid-year Exam, #11]**

It is given that a and b are positive numbers and c is a negative number. Which of the following must be true?

I. abc is negative.

II. $a - b - c$ is positive.

III. $\dfrac{ac^2}{b}$ is positive.

A. I and II only
B. I and III only
C. II and III only
D. All of the above

16. [17-18 Standardized Test #5]

If $x > -2.5$ and $x < +2$,   which   of   the
following is/are possible value(s) of x?

I. $+2$ II. -1 III. -3

A. II only   **B.** I and II only
C. I and III only   **D.** I, II and III
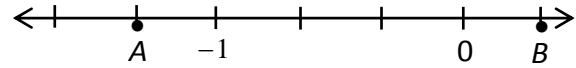
17. [17-18 Standardized Test #6]

Which of the following expression(s)
is/are negative in value?

I. $2016 - 2017$
II. $(-2016) - (-2017)$
III. $(-1)^{2017}$

A. II only   **B.** I and II only
C. I and III only   **D.** I, II and III

18. [17-18 Mid-year Exam#2]

Consider the following number line. What
numbers do A and B represent?

A. $A = -1.5$, $B = 0.5$
B. $A = -2$, $B = 1$
C. $A = -1\dfrac{1}{3}$, $B = 1$
D. $A = -\dfrac{4}{3}$, $B = \dfrac{1}{3}$

19. [17-18 Mid-year Exam#12]

Which of the following is/are positive?

I. -2^{2018}
II. $(-2 \div 3)^4$
III. $-2 + 1 + 7$

A. I only
B. II only
C. I and III only
D. II and III only

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