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, $\frac{2}{3}$

Page 1 of 4

TB(1A) Ch. 1 Directed Numbers & the Number Line GHS Past Paper Question Bank – MC questions

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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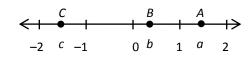
descending order.

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. $\frac{5}{4}$, $\frac{4}{5}$ %, $-\frac{4}{5}$, $-\frac{5}{4}$

TB(1A) Ch. 1 Directed Numbers & the Number Line GHS Past Paper Question Bank – MC questions

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

Page 4 of 4