

INSPIRED TOTS EARLY LEARNING CENTER
SECOND TERM EXAMINATION 2023/2024 SESSION

Name _____ Class: 5th Grade Date: _____

Subject: MATHEMATICS

SECTION A: Multiple Choice: Underline the correct answer.

1. Express the percentage 6.25 as a fraction in its simplest form is:
a) 6.8% b) 66.8% c) 620% d) 668%
2. An equivalent ratio to 648:684 is _____
a) 8:9 b) 18:19 c) 26:27 d) 35:36
3. The ratio of the number of boys to the number of girls is 5:6. If there are 44 pupils, then the number of girls is _____.
a) 20 b) 22 c) 24 d) 26
4. The number divisible by 6, 8 and 10 is:
a) 75 240 b) 75 420 c) 98 440 d) 99 640
5. The biggest 6-digit number divisible by 3 and 8 is:
a) 999 960 b) 999 984 c) 999 996 d) 999 999
6. $3^3 \times 2^2 \times 7 =$ _____
a) 42 b) 252 c) 756 d) 1 764
7. The prime factorization of 6 760 is:
a) $2 \times 5 \times 13$ b) $2^2 \times 3^4 \times 5$ c) $2^2 \times 13^2 \times 5$ d) $2^3 \times 13^2 \times 5$
8. The simplest form of $2^4 \times 5^2 \times 3^3 \times 5^2 \times 5^3 \times 3^2 \times 2$ is:
a) $2^4 \times 3^5 \times 5^5$ b) $2^4 \times 5^7 \times 3^5$ c) $2^5 \times 3^5 \times 5^7$ d) 30^{17}
9. The HCF of 224, 252 and 308 is:
a) 2×7 b) $2^2 \times 7$ c) 2×7^2 d) $2^2 \times 7^2$
10. The LCM of 42, 66 and 105 is:
a) 2×7 b) $2 \times 3 \times 5 \times 11$ c) $2 \times 3 \times 5 \times 7 \times 11$ d) $2^2 \times 3 \times 5 \times 7 \times 11$
11. The cube root of 1 331 is:
a) 7 b) 9 c) 11 d) 13
12. The percentage that is between $\frac{25}{4}$ and $\frac{34}{5}$ is:
a) 6.8% b) 66.8% c) 620% d) 668%

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13. The fraction $\frac{224}{25}$ as a percentage is:

- a) 8.96% b) 22.4% c) 89.6% d) 896%

14. $75\% \div 2.5 =$ _____

- a) 3% b) 30% c) 187.5% d) 300%

15. 25 is 40% of:

- a) 62.5 b) 65 c) 67.5 d) 75

16. The profit of ₦ 58 500.00 is 30% of:

- a) ₦ 19 500.00 b) ₦ 175 500.00 c) ₦ 195 000.00 d) ₦ 370 000.00

17. $45.8\% + 43.8\% + 7.78\% =$ _____

- a) 96.38% b) 97.38% c) 98.38% d) 98.83%

18. If the rate of correct answer in a test is three points per numeration question and 5 points per geometry question, how many points will Eliana get if she answers six questions from each type correctly?

- a) 36 b) 48 c) 60 d) 96

19. Number to the left of -5 on the number line is _____

- a) +5 b) 0 c) -3 d) -7

20. A number bigger than negative two is _____

- a) The opposite of positive three b) the opposite of positive one c) negative five
d) negative eight

21. $(-16) + (+24) + (-23) =$ _____

- a) -63 b) -17 c) -15 d) +17

22. $(+245) - (+314) =$ _____

- a) -79 b) -69 c) +69 d) +79

23. The missing dividend in _____ $\div (-21) = +37$ is:

- a) -877 b) -777 c) +777 d) +877

24. The square root of 512 is 8. **True or False**

25. If $(+7) -$ _____ $= 0$, then the missing integer is -7. **True or False**

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26. If $9 - t = 1$, then $t = 8$. True or False
27. If $a + 2 = -1$, then $a = 3$. True or False
28. If $3 - b = -5$, then $b = -2$. True or False
29. If $-8 + \square = -10$, then $\square = -2$. True or False

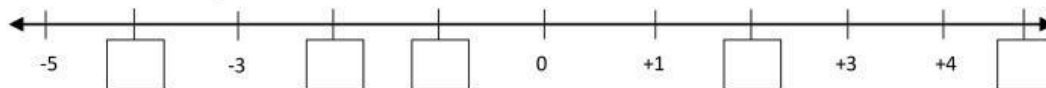
SECTION B

1. Find the missing terms in the tables of proportionality.

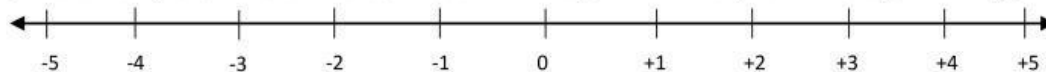
28	14		84
36	18	9	

12	8	16	
16	24		32

2. Place the integers -2, +5, -4, +2 and -1 on the number line.



3. Count on forwards or backwards on the number line to find the sums and differences.



- i. $(-2) + (-2) =$ _____ ii. $(-2) - (-2) =$ _____
- iii. $(-1) + (+3) =$ _____ iv. $(-4) - (-1) =$ _____
- v. $(+3) + (-5) =$ _____ vi. $0 - (+4) =$ _____

4. Find the values of:

a) $7^3 =$ _____

b) $2^3 \times 3^2 =$ _____

5. i) $\sqrt{196} =$ _____

ii) $\sqrt[3]{27} =$ _____

6. Convert each mixed number to an improper fraction in its simplest form.

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i) $5\frac{15}{32} =$

ii) $4\frac{3}{5} =$

7. Find 0.1% of 700.

8. Write an equivalent ratio of 5:9.

9. The number of rainy days in November is proportional to the number of sunny days with a ratio of 2:3. How many rainy days are there in November?

10. The number of red pens is proportional to the number of blue pens with a ratio of 3:5. If there are 40 blue pens, how many red pens are there?

11. The number of working days is proportional to the number of days off with a ratio of 5:2. If Harat worked for 35 days, how many days off did she have?
