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% ÷ 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 _____ ÷ (-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 $-8 +$ ☐ $= -10$, then ☐ $= -2$. **True or False**

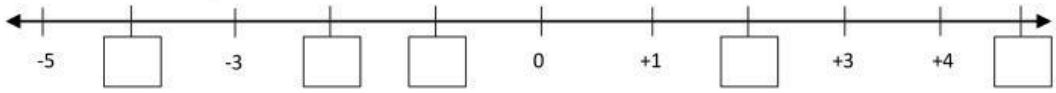
SECTION B

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

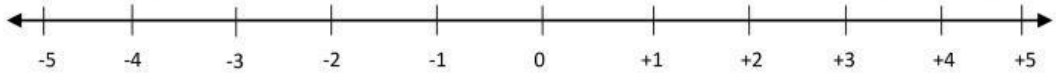
28	14		84
36	18	9	

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 read 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?

_____

_____

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