**JUNIOR MATH QUIZ**

**JUNIOR MATHEMATICS QUIZ**

1. Is $ \frac{5}{9}$ bigger than $\frac{6}{11}$

 **Ans**: yes,$\frac{5}{9}$ is bigger than $\frac{6}{11}$

2. What is the reciprocal of - $\frac{3}{5}$ ?

 **Ans**: -$\frac{5}{3}$

3. By what must 9 be multiplied to give the answer $\frac{5}{9}$ ?

 **Ans:** $\frac{5}{81}$

4. When 6 is expressed as a percentage of 15 is?

 **Ans**: 40%

5. The cost of an article is decreased from £ 1.20 to £90.what is the percentage decrease?

**Ans**: 25%

6. The digits 470374 when expressed in words is?

 **Ans**: four hundred and seventy thousand, three hundred and

 seventy four.

7. Name three methods that can be used to subtract numbers.

 **Ans**: Equal additions, decomposition and shop-keepers subtraction.

8. In the expression 5 times 9.which number is the multiplicand?

 **Ans**: 9

10. Simplify 4x2 – x2

 **Ans**: 3x2

11. The sum of x2 + 10 and –x2 + 10 is?

 **Ans**: 10

12. A rectangle is (x – 3) cm wide and (x + 5) cm long. What is the area of this rectangle expressed in terms of x?

 **Ans**: Area = x2 +2x – 15.

13. When the number of rows in a matrix is the same as the number of columns, the matrix is called?

 **Ans**: Square matrix.

14. A function f on R, defined by f(x) =ax2 + bx + c, where a, b, c ∈ R and

 a≠0 is called a quadratic function. What do we call a graph of a quadratic function?

 **Ans**: Parabola

15. The lines y =2x + 3 has the same gradient as the line

 2x - y = 6.This implies that the two lines are?

 **Ans**: Parallel

16. What do we call the set of all directed line segments in the plane with magnitude and direction?

**Ans**: Vector

17. The medians of a triangle are concurrent, which means they pass through the same point. What do we call this point of concurrence?

**Ans**: centroid of a triangle

18. If 9 men paint a building in 21 days, how long would 7 men take to paint the same building?

**Ans**: 27 days

19. Simlify 2-3

**Ans**:$\frac{1}{8}$

20. When factorized completely,5m2 – 80 is

**Ans**: 5(m + 4) (m – 4)

21. Name the two basic kinds of telephone calls.

**Ans**: Local and Trunk calls

22. How old was Dalito on 20th June, 1986 if he was born on 1st July, 1980? Mention the years, months and days.

**Ans**: 5 years 11 months 19 days.

23. W hat do we call a sentence that contains a variable.

**Ans**: Open sentence

24. Convert 5$\frac{3}{5}$ into a decimal number.

 **Ans**: 5.6

25. P is the set of prime numbers between 0 and 12.List p.

 **Ans**:$\left\{2,3,5,7,11\right\}$

26. Round off 48.356km to the nearest kilometer.

 **Ans**: 48.4

27. Find the exact value of 15.37 + 0.035

**Ans**: 15.405

28. Find the value of 202 - 53

**Ans:** 275

29. Find the median of the following numbers 3,7,2,5,6,4,8

**Ans**: 5

30. Any two angles that add up to 1800 are called

**Ans**: Supplementary angles

1. What is the value of the ratio ½ and ¼?

 **Answer: 2**

1. What is the value of 2 + 10 X 3 – 1

 **Answer: 16**

1. How many degrees have two right angles?

 **Answer: 1800**

1. Divide the sum of 88 and 66 by their difference.

 **Answer: 7**

1. If x/3 = 27, what is x?

 **Answer: 81**

1. The lines that never meet are called?

 **Answer: parallel lines**

1. What shape is a soccer ball?

 **Answer: sphere**

1. What is a four sided polygon?

 **Answer: Quadrilateral**

1. What is the value in 421five?

 **Answer: twenty five**

1. What do we call a shape bounded by straight lines?

 **Answer: polygon**

1. What is the cube root-of 27?

 **Answer: 3**

1. What is the next term in the sequence 4, 9, 16, 25……..

 **Answer: 36**

1. Which one is bigger ⅕ or 0.22?

 **Answer: 0.22 (one attempt only)**

1. What name do we give to a triangle with two sides equal?

 **Answer: Isosceles triangle**

1. How many faces has a rectangular prism

 **Answer: 6**

1. Mr. Kanjesheko needs a dozen boxes of milk. How many boxes does he need?

 **Answer: 12**

1. The distance around a square garden is 169m. How long is one side?

 **Answer: 13m**

1. A square garden has one side 6m. How long is the fence around it?

 **Answer: 24m**

1. A film started at 23:18 hrs and ended at 02:12. How long did it take?

 **Answer: 2 hours 54 min**

1. Find the sum of the first 3 prime numbers

 **Answer: 8**

1. What is the square root of 0.04?

 **Answer: 0.2**

1. 25 written as a fraction of 175 is

 **Answer: 1/7**

1. If ½x + 3 = 21, then x is

 **Answer: 36**

1. John’s father died in 1967, 29 years after he born. When was he born?

 **Answer: 1938**

1. How much water is contained in a swimming pool measuring 9x7x5 (meters) in length, width and depth respectively when it is full

 **Answer: 315 m3**

1. Half a liter of petrol costs K2, 600

 **Answer: K88, 400**

1. 15% of a number is 60. What is the number?

 **Answer: 400**

1. How many minutes are there in a day?

 **Answer: 1440**

1. What is 0.45 expressed as a day fraction in its lowest terms?

 **Answer: 9/20**

1. Divide 1 by 0.004

 Answer: 250

1. If x = 2 and y = -3 then 5x – 4y is

 **Answer: 22**

1. Express 75km as a percentage of 5000 km

 **Answer: 1.5%**

**END OF QUESTIONS**

NATIONAL QUIZ QUESTIONS

JUNIOR MATHEMATICS

1. How many elements are in set B if set B has one subset only?

Answer: $∅$ or empty set

1. A and B are two sets. If n (A) = 11 , n(B) = 8 and n (A$∪$B) = 13. State the value of n(A$∩$B).

Answer: $n(A∩B)$

1. A train is 1 km long passing through a tunnel i km long, it is travelling at a speed of 1 km per hour. How long will it take to pass through the tunnel?

Answer: 2 hours

1. Give two reasons why equilateral triangle is a subset of the st of isosceles triangles.

Answer: it has two equal sides and it has two equal base angles

1. What name is given to any number that reads the same, forward and backwards e.g. 121?

Answer: Palindromic number or palindrome

1. Which number is both even and prime number?

Answer: 2