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2024-2025 Math League Preliminary Round

(Grade 3)

(Unofficial version, for reference only)

1. A race began at 3:43 P.M. and ended at 5:57 P.M. the same day. The race was half over at _?_ P.M.



A) 4:20 B) 4:30 C) 4:50 D) 5:00

2. My dog walked 10 times as far as Frank's dog, and Frank's dog walked 10 times as far as Al's dog. If Frank's dog walked 10 km, then my dog walked _?_ km farther than Al's dog.



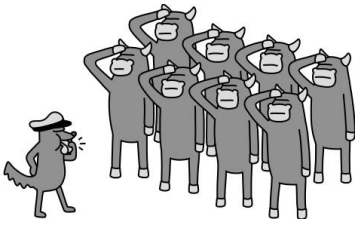
A) 9 B) 90

C) 99 D) 109

3. How many 1s must be added to 1 + 1 + 1 for the total to be 8?

A) 1 B) 3 C) 5 D) 8

4. Shep the Dog herded 35 cows into 4 herds. If 3 of the herds had 8 cows each, how many cows did the fourth herd have?



A) 3 B) 4 C) 9 D) 11

5. My 5 quarters are worth as much as _?_ dimes + 1 nickel.

A) 6 B) 10 C) 12 D) 13

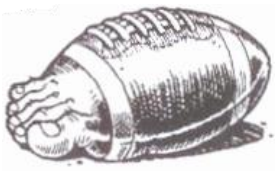
6. $15 - 10 + 25 - 20 + 35 - 30 + 45 - 40 =$

A) 5 B) 10 C) 15 D) 20

7. If tomorrow is Tuesday, then 2 days before yesterday was

A) Friday B) Saturday C) Sunday D) Monday

8. Paul buys a new football every 3 years. Paul bought his first football when he was 8. He bought his fifth football when he was



A) 11 B) 19 C) 20 D) 23

9. I multiply a whole number by itself. The ones' digit of this product cannot be

A) 0 B) 5 C) 6 D) 7

10. The product of 6 of the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9 could be

A) 680 B) 2835 C) 60 480 D) 83 349

11. $(36 + 36 + 36) \div 6 = 6 \times _?_$

A) 3 B) 4 C) 6 D) 9

12. If you write our alphabet alphabetically, how many letters do you write after the first vowel but before the last consonant?

A) 23 B) 24 C) 25 D) 26

13. $20 \times 10 \times 2 \times 1 =$

A) 212 B) 221 C) 400 D) 420

14. Which of the following sums is *not* equal to the other three?

A) 19 + 91 B) 18 + 81 C) 27 + 72 D) 36 + 63

15. $80 - 70 + 60 - 50 + 40 - 30 + 20 - 10 =$

A) 10 B) 20 C) 30 D) 40

16. $5 + (10 \times 8) + (100 \times 9) + (1000 \times 2) =$

A) 5892 B) 5111 C) 1115 D) 2985

17. $101 \times 10 \times 1 \times 0 \times 1 \times 10 \times 101 = 1010 \times _?_$

A) 0 B) 1 C) 2 D) 3

18. Of the following, which is *not* a polygon?

A) triangle B) rhombus C) pentagon D) circle

19. Of 30 veggies, if 20 were sliced, then 18 were diced, then *at most* _?_ were *neither* sliced nor diced.



A) 2 B) 8 C) 10 D) 12

20. On a sheet of paper, a line is drawn through the center C of a square. How many times does this line intersect the sides of the square?



A) 0 B) 1 C) 2 D) 3

21. (20 hundreds) + (20 ones) = _?_ tens

A) 22 B) 202 C) 220 D) 2020

22. Lee's house is 4 km from Mary's and 7 km from Nat's. What is the greatest possible distance between Mary's house and Nat's house?

A) 3 km B) 4 km C) 7 km D) 11 km

23. Find the largest whole number such that 6 times that number is less than 100.

A) 15 B) 16 C) 17 D) 95

24. $10 \times 10 - 10 \div 10 =$

A) 99 B) 90 C) 9 D) 0

25. Of the following numbers, which leaves a remainder of 2 when divided by 4?

A) 2224 B) 3350 C) 4481 D) 5523

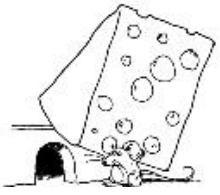
26. How many days in a week have names with more than 6 letters?

A) 6 B) 5 C) 4 D) 3

27. What is 6 more than the sum of 5 and 4?

A) 11 B) 13 C) 15 D) 96

28. In a family of 60 mice, each mouse eats 2 kg of cheese every 30 days. How much cheese does this family eat every day?

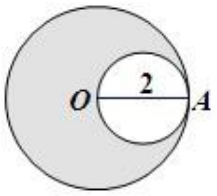


A) 4 kg B) 3 kg C) 2 kg D) 1 kg

29. $45^3 =$

A) $3^3 \times 5^3$ B) $4^3 \times 5^3$ C) $3^6 \times 5^3$ D) $3^8 \times 5^3$

30. In the diagram, $\overline{OA}$ is a radius of the larger circle and a diameter of the smaller circle. If $OA = 2$, what is the area of the shaded region?



A) 2π B) 3π C) 4π D) 7π

31. It took FedStork 11 weeks + 11 days to deliver the medical bag. How many hours was that?



A) 22 B) 88

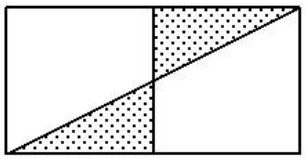
C) 121 D) 2112

32. Every student on my team ate 3 slices of pizza. If one team member were absent, each of the others could have eaten 4 slices (with no leftover pizza either time). How many students are on my team?

A) less than 5 B) between 5 and 10, inclusive

C) between 11 and 20, inclusive D) greater than 20

33. As shown at the below, a line segment is drawn connecting the midpoints of two opposite sides of a rectangle. A diagonal of the rectangle is also drawn. If the area of each shaded triangle is 20, what is the area of the original rectangle?



A) 80 B) 120 C) 160 D) 200

34. The distance around 3 sides of my rectangular sign is 2009 mm. The distance around a different selection of 3 sides of the same sign is 2011 mm. What is the perimeter of my sign, in mm?



A) 2010 B) 2680

C) 2684 D) Answer not shown

35. For what positive integer n does $n^2 \times 1995^2 \times 1996^2 \times 1997^2 = 3990^2 \times 3992^2 \times 3994^2$?

A) 4 B) 6 C) 8 D) 10

Answers										
Question	1	2	3	4	5	6	7	8	9	10
Answer	**C**	**C**	**C**	**D**	**C**	**D**	**A**	**C**	**D**	**C**
Question	11	12	13	14	15	16	17	18	19	20
Answer	**A**	**B**	**C**	**A**	**D**	**D**	**A**	**D**	**C**	**C**
Question	21	22	23	24	25	26	27	28	29	30
Answer	**B**	**D**	**B**	**A**	**B**	**C**	**C**	**A**	**C**	**B**
Question	31	32	33	34	35					
Answer	**D**	**A**	**C**	**B**	**C**					