

MC MM Gr 5 Masters

1. Of the following, which has the greatest value? A. 617.9    B. 607.91    C. 617.1    D. 617.09    E. 617.099
2. Which number is the same as $7 \times 10^3$ ? A. 70    B. 700    C. 703    D. 730    E. 7,000
3. What is the value of this expression? $75 - 5 \times 7$ A. 30    B. 40    C. 77    D. 405    E. 490
4. What is 13,580.4725 rounded to the nearest thousandth? A. 14,000    B. 13,000    C. 13,580.473    D. 13,580.472    E. 13,570.470
5. Which number equals two-thirds of 603? A. 201    B. 401    C. 402    D. 410    E. 420
6. The digit 4 in 59,841 is ___ times the value of the 4 in 14,390. A. 10    B. 100    C. 1/10    D. 1/100    E. 1/1000
7. How many odd numbers are there between 2020 and 2200? A. 180    B. 80    C. 81    D. 90    E. 91
8. What is the product of 1,186 and 100? A. 1,186,000    B. 118,600    C. 11,860    D. 12,860    E. 1,286
9. Fill in the blank: 8 cups = ___ gallon. A. $\frac{1}{2}$ B. $\frac{1}{3}$ C. $\frac{1}{4}$ D. $\frac{1}{6}$ E. $\frac{1}{8}$
10. The sum of three consecutive integers is 48. What is their mean? A. 12    B. 14    C. 15    D. 16    E. 18
11. Fill in the blank: $14.569 + 120 = \underline{\hspace{2cm}}$ . A. 14.689    B. 134.569    C. 135.69    D. 144.569    E. 260.569
12. If 3 bags of bread rolls cost \$7.50, what is the cost of 7 bags of bread rolls? A. \$10.75    B. \$12.25    C. \$15.00    D. \$16.50    E. \$17.50
13. $(8 \times 10,000) + (4 \times 1,000) + (7 \times 10) + (5 \times 1) + 3 \times \left(\frac{1}{100}\right)$ Which number is one-tenth of the expanded form above? A. 84,075.03    B. 8,407.503    C. 840.750    D. 840.753    E. 84.7503
14. What number can replace the "⊙"? $42 \div 66 = \frac{\text{⊙}}{22}$ A. 14    B. 11    C. 7    D. 6    E. 3

15. Which value below could be the average of 3 consecutive primes, each less than 20? A. 3    B. 5    C. 7    D. 11    E. 15
16. It's possible for February to have ___ Wednesdays, but not more. A. 2    B. 3    C. 4    D. 5    E. 6
17. Express $5\frac{2}{5}$ hours in minutes. A. 320 min    B. 324 min    C. 325 min    D. 330 min    E. 340 min
18. What fraction of 1 meter is 15 cm? A. $\frac{1}{5}$ B. $\frac{1}{15}$ C. $\frac{3}{20}$ D. $\frac{10}{15}$ E. $\frac{15}{10}$
19. How will the area of a 3 inch by 6 inch rectangle change if you make the shorter side one inch longer, and the other side one inch shorter? A. 2 in <sup>2</sup> smaller    B. 2 in <sup>2</sup> larger    C. 4 in <sup>2</sup> smaller    D. 4 in <sup>2</sup> larger    E. won't change
20. Of the following numbers, which is closest to 9.99? A. 9    B. 9.9    C. 9.91    D. 10.01    E. 10.1
21. If it will be 10 a.m. in 11 hours, then it was 10 a.m. ___ hours ago. A. 9    B. 10    C. 11    D. 12    E. 13
22. Of the following which is not equal to 1? A. 1% of 100    B. 100 x 1%    C. 1 x 100%    D. 1% of 10    E. 10% of 10
23. How many seconds are in 2.4 minutes? A. 124    B. 140    C. 144    D. 148    E. 152
24. Perimeter of a square is 16 inches. How many times smaller will the area of the square be, if you make its perimeter 12 inches smaller? A. 8    B. 12    C. 4    D. 15    E. 16
25. The value of $15^4$ equals to _____. A. $3 \times 5^4$ B. $3^2 \times 5^2$ C. $3^3 \times 5^4$ D. $3^4 \times 5^4$ E. $3^1 \times 5^3$
26. The least common multiple of (2x3), (3x5), and (2x5) is ____. A. 1    B. 15    C. 20    D. 30    E. 900
27. How many square centimeters are in one square meter? A. 10,000    B. 1,000    C. 100    D. 1/10    E. 1/100
28. Which equals $\frac{2}{3}\%$ of 600? A. 4    B. 6    C. 40    D. 60    E. 400
29. If I jog 30 minutes every day at 5 km/hour, then I jog ___ km each week. A. 2.5    B. 15    C. 17.5    D. 35    E. 150

30. From an 8x8x8 cube, a 2x2x2 cube is removed from each corner. What fraction of the 8x8x8 cube is removed? A. $\frac{1}{2}$ B. $\frac{1}{4}$ C. $\frac{1}{16}$ D. $\frac{1}{8}$ E. $\frac{3}{8}$
31. Donna buys a toy that was discounted by 20%. If this saved her \$15, what was the original price of the toy? A. \$18      B. \$60      C. \$75      D. \$80      E. \$90
32. The area of one face of a cube is 9 square centimeters. What is the volume of the cube? A. 27 cm <sup>3</sup> B. 36 cm <sup>3</sup> C. 54 cm <sup>3</sup> D. 81 cm <sup>3</sup> E. 729 cm <sup>3</sup>
33. Fill in the blank: 200% of ____ is a prime. A. 5      B. 4.5      C. 3      D. 2      E. 1
34. A pizza is cut into N identical slices. Tarek eats the last four slices which was $\frac{2}{5}$ of the pizza. What is N? A. 20      B. 18      C. 16      D. 15      E. 10
35. $\frac{2}{5}$ of a class of 30 students were girls. Then two girls joined the class and eight boys left the class. What fraction of the class do girls now represent? A. $\frac{1}{2}$ B. $\frac{2}{3}$ C. $\frac{7}{24}$ D. $\frac{7}{12}$ E. $\frac{7}{15}$
36. A number multiplied by 12 is 96. What is the answer when that number is multiplied by two-thirds of 27? A. 144      B. 124      C. 114      D. 81      E. 72
37. Fill in the blank: 30 is 0.1% of ____. A. 3      B. 300      C. 3,000      D. 30,000      E. 300,000
38. Which statement is true about the product of $\frac{4}{5} \times \frac{1}{3}$ ? A. The product is greater than each factor. B. The product is less than each factor. C. The product is greater than $\frac{1}{3}$ but less than $\frac{4}{5}$ . D. The product is equal to one of the factors. E. The product is greater than 1.
39. What is the ratio of the number of degrees in the interior angle of an equilateral triangle to the number of degrees in the interior angle of a regular pentagon? A. $\frac{3}{5}$ B. $\frac{1}{2}$ C. $\frac{2}{5}$ D. $\frac{5}{9}$ E. $\frac{3}{4}$
40. Tim played golf for $5\frac{2}{3}$ hours. Tom played 1.5 times as much as Tim. How many hours did Tom play golf? A. $7\frac{5}{6}$ B. 8      C. $8\frac{1}{6}$ D. $8\frac{1}{3}$ E. $8\frac{1}{2}$

# MATH CHALLENGE TOURNAMENT

## MASTERS

April 20, 2019



### Mental Math Challenge

Grade 5

Problem 1 – 40

**Do not begin until you are instructed to do so.**

***Mental Math Challenge (15 minutes)***

Mark your answers on the ANSWER SHEET.

You may not do any written work.

Solve as many problems as you can.