




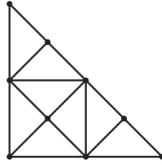


1. Of the following, which product is an odd number? A. 4×9 B. 3×8 C. 5×8 D. 3×12 E. 1×17
2. What is 916 rounded to the nearest 10? A. 900 B. 910 C. 920 D. 950 E. 1,000
3. 3 dimes + 2 nickels + 1 penny = ____ pennies. A. 51 B. 41 C. 33 D. 32 E. 23
4. What time is 3 hours after 11 a.m.? A. 3 a.m. B. 3 p.m. C. 2 p.m. D. 2 a.m. E. 1:30 p.m.
5. 5 dimes = ____ nickels. A. 50 B. 25 C. 20 D. 10 E. 5
6. What is 9 less than the sum of 9 and 9? A. 0 B. 9 C. 18 D. 27 E. 99
7. Tina was 10 years old 4 years ago. How old will she be 3 years from now? A. 11 B. 13 C. 14 D. 17 E. 19
8. Which number equals to $102 - 21$? A. 83 B. 82 C. 81 D. 80 E. 79
9. Complete this number pattern: 436, 448, 460, 472, ____, ____. A. 482, 494 B. 484, 494 C. 484, 492 D. 484, 496 E. 484, 498
10. Fill in the blank: $2 \times 0 \times 1 \times 9 =$ ____. A. 11 B. 12 C. 18 D. 19 E. 0
11. What is 7 times the value of $1 + 2 + 3$? A. 13 B. 23 C. 42 D. 47 E. 49
12. Two years ago, Jessica turned 21 years old. How old will she be 12 years from today? A. 31 years old B. 32 years old C. 33 years old D. 34 years old E. 35 years old
13. When you subtract 29 from 50, the result is the same as three times a secret number. What is the secret number? A. 6 B. 7 C. 9 D. 11 E. 21
14. Two strawberry cupcakes cost \$7. How much will it cost to buy 5 strawberry cupcakes? A. \$10.50 B. \$13.50 C. \$15.50 D. \$17.50 E. 18.50
15. Fill in the blank: $200 - \underline{\hspace{1cm}} = (5 \times 5) + (10 \times 10)$ A. 25 B. 55 C. 75 D. 85 E. 95

16. When you add the smallest three-digit odd number to 1000, you will get ____. A. 1001 B. 1010 C. 1100 D. 1101 E. 1110
17. Tommy's 6 th birthday was in 2018. In what year will he turn 16? A. 2022 B. 2024 C. 2026 D. 2028 E. 2032
18. Evaluate: 77 tens + 17 ones. A. 777 B. 778 C. 787 D. 814 E. 887
19. How many whole numbers are greater than 10 and less than 30? A. 18 B. 19 C. 20 D. 21 E. 40
20. Fill in the blank: 16 less than 38 = 2 more than ____. A. 16 B. 17 C. 18 D. 19 E. 20
21. My three friends and I share a whole pizza equally. How many pieces must I cut the pie into so that each of us gets 2 pieces? A. 8 B. 6 C. 5 D. 4 E. 3
22. Milo starts with the number 15 and counts by 2. Which number will not be in the pattern? A. 25 B. 31 C. 43 D. 52 E. 55
23. The hose was a yard long. How many inches long was the hose? A. 12 B. 24 C. 30 D. 36 E. 100
24. Which shaded diagram below represents a fraction equivalent to $\frac{1}{3}$? A.  B.  C.  D.  E. 
25. I counted 60 legs on the dogs in a dog kennel. How many dogs were in the kennel? A. 12 B. 13 C. 14 D. 15 E. 16
26. There are 1000 people in the dance hall. If 87 are children, how many are adults? A. 813 B. 913 C. 983 D. 987 E. 1087
27. What time is 7 hours before 1:00 p.m.? A. 6:00 a.m. B. 6:00 p.m. C. 7:00 a.m. D. 7:00 p.m. E. 8:00 a.m.
28. How many different 3-digit numbers can be written using 0, 1, and 2 once each. A. 2 B. 3 C. 4 D. 5 E. 6
29. The product of 3, 3, 3, and 3 is ____. A. 12 B. 27 C. 33 D. 81 E. 3333
30. If one pound equals 16 ounces, four pounds equals ____ ounces. A. 44 B. 54 C. 56 D. 62 E. 64

31. When you add the digits of a number, you get a digit sum. For example: 17 has $1+7 = 8$ as its digit sum. What is the smallest 4-digit number that has a digit sum of 12? A. 1029 B. 1119 C. 1209 D. 1218 E. 1335
32. Fill in the blank: $91 - 49 = 100 - \underline{\hspace{2cm}}$. A. 42 B. 48 C. 52 D. 58 E. 68
33. Which number can be used to make this number sentence true? $\underline{\hspace{2cm}} > \frac{1}{3}$ A. $\frac{2}{6}$ B. $\frac{2}{7}$ C. $\frac{1}{4}$ D. $\frac{1}{5}$ E. $\frac{1}{2}$
34. What digit do you need to insert for the digit of A, so that the equation $3A - 9 = A3$ is true? A. 0 B. 1 C. 2 D. 3 E. 4
35. How many different whole numbers could replace the “?” to make the statement true? $109 < ? < 219$ A. 107 B. 108 C. 109 D. 110 E. 111
36. There are 24 hours in a day. If Fluffy the Cat spent 8 hours sleeping, which of the following fractions is not equivalent to the amount of time Fluffy spent sleeping during one day? A. $\frac{4}{12}$ B. $\frac{6}{18}$ C. $\frac{2}{6}$ D. $\frac{1}{3}$ E. $\frac{6}{20}$
37. The recipe calls for $\frac{1}{3}$ cups of oil. How many cups of oil are needed if Holly makes 8 batches of this recipe? A. $3\frac{1}{3}$ B. $2\frac{2}{3}$ C. $2\frac{1}{3}$ D. $\frac{3}{8}$ E. $\frac{13}{8}$
38. A cooler can hold 10 liters. A mug can hold $\frac{1}{2}$ liter. How many mugs can fill the cooler completely? A. 5 B. 10 C. 15 D. 20 E. 100
39. Adrian had 3 days to complete the assignment. How many hours did she have? A. 48 B. 62 C. 72 D. 96 E. 120
40. The shape to the right is made of identical right isosceles triangles. How many squares are hidden in the figure? The squares may be of different sizes.  A. 2 B. 3 C. 4 D. 5 E. 6

MATH CHALLENGE TOURNAMENT MASTERS

April 20, 2019



Mental Math Challenge

Grade 3

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.