

2012 3rd
2001-2002 4TH GRADE CONTEST SOLUTIONS

Answers

1. The product of any number and 0 is 0, so $20 \times 0 \times 2 = 0$. A) 0 B) 40 C) 400 D) 2002	1. A
2. 5 more than 7 = 12, so 3 more than "5 more than 7" = $3 + 12 = 15$. A) 8 B) 10 C) 12 D) 15	2. D
3. We toasted 8 dozen marshmallows at our campfire. That's $8 \times 12 = 96$ marshmallows. A) 12 B) 20 C) 64 D) 96	3. D
4. $(9-8) + (7-6) + (5-4) + (3-2) = 4 = 1 + 3$. A) 3 B) 4 C) 5 D) 8	4. A
5. If I had 9¢ more, I'd have \$1, so I now have $100¢ - 9¢ = 91¢$. A) 90¢ B) 91¢ C) 99¢ D) \$1.09	5. B
6. If a plant blooms for exacty 3 months each year, that same plant does <i>not</i> bloom for exactly $12-3 = 9$ months each year. A) 3 B) 6 C) 9 D) 12	6. C
7. $1+1+10+10+100+100 = (1+10+100) + (1+10+100) = 111+111$. A) 89 B) 99 C) 111 D) 121	7. C
8. The following birds were standing under a pear tree: 4 calling birds, 3 French hens, 2 turtle doves, and 1 partridge. That's a total of $4+3+2+1 = 10$ birds standing under the pear tree. A) 9 B) 10 C) 11 D) 24	8. B
9. Since 7 days after Tuesday is a Tuesday, 6 days after Tuesday is a Monday. A) Sat. B) Sun. C) Mon. D) Wed.	9. C
10. The sum of four 5s = $5+5+5+5 = 20 = 4 \times 5$. A) 4 + 5 B) 4 × 5 C) 45 D) 5555	10. B
11. $12 \times 12 = 3 \times 2 \times 2 \times 12 = 3 \times 48 = 4 \times 36 = 6 \times 24 = 144$. A) 3 × 48 B) 4 × 36 C) 6 × 24 D) 8 × 16	11. D

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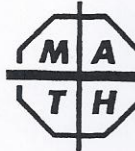
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12. The seasons are summer, autumn, winter, spring, summer, A) winter B) spring C) autumn D) summer	12. D
13. In 12 years, Ali will be twice as old as she is now. She's 12 now; 4 years ago she was 8. A) 8 B) 16 C) 20 D) 28	13. A
14. $22+22+22 = 66 = 33+33+33 - 33$. A) 11 B) 22 C) 33 D) 66	14. C
15. 10 to 99 is as many #s as (10-9) to (99-9), or 1 to 90, so 90 #s. A) 88 B) 89 C) 90 D) 91	15. C
16. One coin was equal in value to the sum of the other three, so the coins were 1 quarter, 2 dimes, and 1 nickel. Value = 50¢. A) 20¢ B) 25¢ C) 40¢ D) 50¢	16. D
17. When $(12+24+36 + 1)$ is divided by 12, the remainder is 1. A) 0 B) 1 C) 5 D) 9	17. B
18. Of the 18 fish in my aquarium, twice as many have stripes as do not have stripes, so there are 12 with stripes and 6 without. A) 6 B) 9 C) 12 D) 15	18. C
19. If $? \div 99 = 11$, then $? = 11 \times 99 = 1089$. A) 9 B) 88 C) 999 D) 1089	19. D
20. Every whole number, whether odd or even, is divisible by 1. A) 0 B) 1 C) 2 D) 3	20. B
21. 11 hrs. after 11:11 P.M. is 10:11 A.M.; 11 mins. later is 10:22 A.M. A) 10:22 A.M. B) 12 P.M. C) 12 A.M. D) 12:22 A.M.	21. A
22. Between the first vowel, a, and the last consonant, z, you'll write the other 24 letters of the alphabet. A) 23 B) 24 C) 25 D) 26	22. B

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23. The number 246 858 642 is <i>not</i> divisible by 4 (since 42 is not). A) 2 B) 4 C) 6 D) 9	23. B
24. Since $124 = 1 \times 124 = 2 \times 62 = 4 \times 31$, the smallest possible difference between the two factors is $31 - 4 = 27$. A) 27 B) 31 C) 60 D) 123	24. A
25. Since $\$12 \times 5 = \60 , $\$30 \times 2 = \60 , and $50¢ \times 120 = \$60$, either B, C, or D could be the cost of a car wash. Notice that \$60 is <i>not</i> divisible by \$9. A) \$9 B) \$12 C) \$30 D) 50¢	25. A
26. Each circle has a diameter of 4, so I can fit three rows of circles, with 3 circles in each row, inside this square. That's 9 circles. A) 6 B) 9 C) 12 D) 36	26. B
27. A delivery truck carries 8 cases. Each case contains 7 cartons. In each carton are 6 boxes. Since each box contains 1 pie, there are $8 \times 7 \times 6 = 336$ pies. A) 21 B) 62 C) 104 D) 336	27. D
28. $(2-1) + (4-1) + (6-1) + \dots + (48-1) + (50-1) = 650 - 25 = 625$. A) 599 B) 600 C) 625 D) 650	28. C
29. The greatest possible perimeter of this rectangle occurs when the 12 squares are lined up single file to form a 2×24 rectangle. Its perimeter is $2 + 24 + 2 + 24 = 52$. A) 28 B) 32 C) 52 D) 72	29. C
30. The minute hand goes around the clock face once each hr. It takes 12 hrs. for the hr. hand to go once around the clock face. In that time, the min. hand goes around 12 times. A) 12 B) 24 C) 60 D) 720	30. A



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