15. Since 1 is not a prime, the smallest product of primes is 2×3 = 6. A) 0 B) 3 C) 5 D) 6		5+4	
2. Two years ago, each was 2 years younger; so the sum was 4 less. A) 24 B) 26 C) 30 D) 32 3. If I eat 50 drops of ice cream each minute, it will take me 2 minutes to eat 100 drops and 3 minutes for 150 drops. A) 1½ B) 2 C) 2½ D) 3 4. (9+1+8+2) ÷ (7+3+6+4) = 20 ÷ 20 = 1. A) 0 B) 1 C) 5 D) 20 5. Square has 4 sides, triangle 3, and 4-3 = 1. A) 7 B) 4 C) 3 D) 1 6. 144×60 = (72×2)×60 = 72×120. A) 72 B) 120 C) 132 D) 140 7. The gcf of 8 and 4 is 4. The gcf of 8 and 12 is also 4. A) 12 B) 14 C) 16 D) 40 8. 9×89 = 801 = 899 - 98 = 801, so choice C is correct. A) 9×98 B) 899×1 C) 899 - 98 D) 989 - 89 9. (# of digits in 1000000): (# of digits in 10000) = 7:5. A) 2:1 B) 6:5 C) 7:5 D) 5:3 10. 6400 ÷ 80 = 80 = 80×1. A) 1 B) 80 C) 800 D) 6400 11. Since there are 26 letters in all, 24 come before Y and 1 comes after A) X B) B C) C D) Y 12. The day after Tuesday is Wednesday. Three days before Wednesday is Sunday. Mr. Sheep got his diploma on a Sunday. A) Wed. B) Fri. C) Sat. D) Sun. 13. Every carton holds 12 = 1 dozen eggs; 60 cartons hold 60 dozen. A) 12 dozen B) 60 dozen C) 144 dozen D) 720 dozen 14. 789+98 = (89+700)+98 = 89+798. A) 987 B) 878 C) 798 D) 177 14. C 15. Since 1 is not a prime, the smallest product of primes is 2×3 = 6. A) 0 B) 3 C) 5 D) 6	_	20.40 00 00 1	Answers
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15. Since 1 is not a prime, the smallest product of primes is $2\times3 = 6$. A) 0 B) 3 C) 5 D 16. $2^2 + 4^2 = 25$	13.	Every carton holds 12 = 1 dozen eggs; 60 cartons hold 60 dozen. A) 12 dozen B) 60 dozen C) 144 dozen D) 720 dozen	
15. Since 1 is not a prime, the smallest product of primes is 2×3 = 6. A) 0 B) 3 C) 5 D 16. 22 + 42 25 52	14.	789+98 = (89+700)+98 = 89+798. A) 987 B) 878 C) 798 D) 177	14. C
16. $3^2 + 4^2 = 25 = 5^2$. A) 5^2 B) 7^2 C) 12^2 D) 34^2 16. A	15.	Since 1 is not a prime, the smallest product of primes is $2\times3 = 6$. A) 0 B) 3 C) 5 D) 6	15.
	16.	$3^2 + 4^2 = 25 = 5^2$. A) 5^2 B) 7^2 C) 12^2 D) 34^2	16. A

Go on to the next page 111 6

51h

	5 th	
	2002-2003 oth Grade Contest Solutions	Answe.
17.	Since $0+0=0-0=0$, their product is $0\times 0=0$.	17.
	A) 0 B) 1 C) 2 D) 4	A
18.	Since $90 = 9 \times 10$ and $10-9 = 1$, choice C is correct.	18.
	A) 63 B) 80 C) 90 D) 99	C
19.	On vacation, my front teeth hurt on 4	19.
	days. My front teeth were OK on 8 days.	19.
	My vacation lasted $4+8 = 12$ days.	D
	A) 2 B) 6 C) 8 D) 12	
20.	$4 \text{ km} = 4000 \text{ m}, 400 \text{ cm} = 4 \text{ m}; 4004 \div 2 = 2002.$	20.
	A) 202 B) 220 C) 2002 D) 22 000	C
21	Each of 12 pizzas was cut into 8 slices, for a total of 96 slices.	101
	Slices eaten = $96-4$ = 92. Number of people = $92 \div 2 = 46$.	21.
	A) 46 B) 48 C) 92 D) 96	A
22.	If it were a square, its dimensions would be 6×6 . But it's not.	22.
	A) 4 B) 6 C) 9 D) 12	В
2		-
ى.	28 and 32 are divisible by 1, 2, and 4, the 3 common factors. A) 2 B) 3 C) 4 D) 5	23. B
_	7,7	"
4.	$12 \div 6 = 2$; $12 \div 4 = 3$; 12 is the LCM of 4 and 6.	24.
	A) 2 B) 6 C) 12 D) 24	
5.	Only choice B results in a prime after 1 is	25.
	subtracted: 48-1 = 47, which is a prime.	В
	A) 46 B) 48 C) 50 D) 53	
6.	$225\phi \div 15\phi = 15$, and $150\phi \div 15\phi = 10$, so	26.
	Di can buy $15-10 = 5$ more than Al.	A
	A) 5 B) 10 C) 15 D) 25	
7.	Add first, then round: $3.83+2.34 = 6.17$. Round up to 6.2.	27.
	A) 6.1 B) 6.17 C) 6.18 D) 6.2	D
8.	It's now 12:31 P.M., so 31 minutes later is 1:02 P.M.	28.
	A) 12:31 A.M. B) 1:02 A.M. C) 12:31 P.M. D) 1:02 P.M.	D
<u> </u>	If the larger of two consecutive whole numbers has one more	29.
7.		
,	digit than the smaller, their ones' digits must be 9 and 0.	В

	2002-2003 GTH GRADE CONTEST SOLUTIONS	Answers
30.	Dave ran 2 km at 8 km/hr, so it took him $(60 \div 4)$ min. Andy ran 2 km at 10 km/hr, so it took him $(60 \div 5)$ min. Diff. is $15-12=3$. A) 2 B) 3 C) 12 D) 15	30. B
31.	(My current age - 10) + (my current age + 10) = 2×(my current age), so A is the answer. A) 2 B) 3 C) 4 D) 10	31. A
32.	Every 4 seasons, it's winter. Since 2003 = (4×500)+3, Dino becomes an adult 3 seasons after winter, in autumn. A) spring B) summer C) autumn D) winter	32. C
33.	35 sips = 10 slurps; 10 slurps = 4 gulps; so 35 sips = 4 gulps. A) 3 gulps B) 4 gulps C) 5 gulps D) 7 gulps	33. B
34.	The width of a 3×6 rectangle is half the length, and the area is 18. A square with the same width would have an area of $3^2 = 9$. A) 6 B) 9 C) 27 D) 36	34. B
35.	My address is a 2-digit number. The product and sum of the digits are equal. Since $2+2=4=2\times 2$, my address is 22. A) 10 B) 11 C) 21 D) 22	35. D
36.	It takes me (52×2) weeks = 104 weeks to read 52 books. A) 26 weeks B) 52 weeks C) 54 weeks D) 104 weeks	36. D
37.	All such numbers must be odd, but need not be prime; try 143 = 11×13. A) even B) prime C) odd D) negative	37. C
38.	The minute hand goes once around the face of a circular clock each hour. To go around 60 times would take 60 hours. A) 1 B) 60 C) 360 D) 3600	38. B
39.	From 100 to 999, there are 999-100+1 = 900 3-digit numbers. A) 1000 B) 999 C) 900 D) 899	39. C
40.	2 -2 -2 - 2 - 44 - 20 -1 -1 - (1)	40. A

The end of the contest 🐔 6

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