	2023-2024 4TH GRADE SOLUTIONS				Answers
1.	(2024 - 2023) +	(24 - 23) = 1	+ 1 = 2.		1.
	A) 0 B) 1	1 C) 2	D) 20		C
2.	Beck's 3 baby by teeth each. Beck $3 \times 4 = 12$ baby	k's baby brotl	ners have		2. C
	A) 7 B) 9	0	D) 16		
		,	,	= 20 + 20 + 20 + 20 + 7.	3.
٥,		•	, , ,		D. D.
	A) 3	B) 4	C) 6	D) 7	
4.	Ida will get her driver's license in 84 months. There are 12 months in a year, so Ida will get her license in $84 \div 12 = 7$ years.				
	A) 7	B) 8	C) 9	D) 12	A
5.	Of the number	s listed, only	116 is a multiple	of 4.	5.
	A) 106	B) 110	C) 114	D) 116	D
6.	-		which doubled the gun with \$24 and	he amount of money in d now has \$48.	6. B
	A) \$42	B) \$48	C) \$72	D) \$96	
7.				cm. The equilateral ength of $24 \div 3 = 8$ cm.	7. D
	A) 4 cm	B) 5 cm	C) 7 cm	D) 8 cm	
8.	Ana counted to $2024 \div 4 = 506$		tarting with 4. A	nna counted	8. B
	A) 253	B) 506	C) 2012	D) 2021	
9.	$(3 \times 5) \times (5 \times 5)$	$)\times(1\times2)=1$	5 × 25 × <b>2</b> .		9.
	A) 2 B) 3	C) 5	D) 35		A
10.	Wanda won 1 f Wanda and Jua Wanda won 12	an won a total	of 25 prizes.		10.
		_	C) 24	D) 26	В
11.				D) 26 mber, my birthday is ril.	11. B
	A) March	B) April	C) Septemb	per D) December	
12.	The values of ea	ach choice in	order are 4, 3, 2, a	and 3, so <b>A</b> is greatest.	12.

C)  $(3+3) \div 3$ 

A)  $(3 \div 3) + 3$  B)  $(3 \div 3) \times 3$ 

D)  $(3 \times 3) \div 3$ 

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13. Joy has enough gifts to fill 9 bags with 8 gifts each, a total of $9 \times 8 = 72$ gifts. If Joy fills 3 bags with 24 gifts, she has $72 - 24 = 48$ gifts left.				
A) 24 B) 27 C) 36 D) 48	-			
14. I divided the pigs in my pen into 7 equal groups and had 1 extra pig. Since $50 \div 7$ leaves a remainder of 1, there could be <b>50</b> pigs.	14. A			
A) 50 B) 52 C) 55 D) 56				
15. Otto the otter swam 80 laps in 16 minutes, at a rate of $80 \div 16 = 5$ laps per minute. In 3 minutes, Otto swims $3 \times 5 = 15$ laps.	15. A			
A) 15 B) 18 C) 24 D) 28				
16. Every 3rd name is underlined and every	<u> </u>			
4th name is circled. Every 12th name is	B			
both underlined and circled, a total of $60 \div 12 = 5$ names.				
A) 3 B) 5 C) 15 D) 20				
17. In 12 years, CJ will be double his age, so CJ must be 12 years old now. CJ will be 24 in 12 years and 36 in <b>24</b> years.	17. A			
A) 24 B) 32 C) 36 D) 48				
18. If the g.c.f. of two different even whole numbers is 6, the numbers could be 6 and 12. Their sum is 18.				
A) 9 B) 12 C) 15 D) 18				
19. If 6 cheeseburgers cost \$48, 1 cheeseburger costs \$48 $\div$ 6 = \$8. One plain	19.			
burger costs \$1 less, or \$7.	В			
A) \$6 B) \$7 C) \$8 D) \$9				
20. $200 \times 200 \times 200 \times 200 = 1600000000 = 2 \times 20 \times 200 \times 2000 \times 100$	20.			
A) 10 B) 100 C) 1000 D) 10000	В			
21. The check-in line has twice as many people as the check-out line.	21.			
The total number of people is a multiple of 3, so it could be <b>123</b> .	С			
A) 103 B) 113 C) 123 D) 133				
22. The product of the odd factors of $(4\times5)\times23\times(4\times5)\times(3\times8)$ : $5\times23\times5\times3$ is 172	ı			
A) 23 B) 115 C) 345 D) 1725	D			

	2023-2024 41H GRADE SOLUTIONS	Answers			
23.	Each row in a theater has the same number of seats. If I removed 2 rows of seats, there would be 105 seats left. If I removed 5 rows of seats instead, there would be 60 seats left. Since $(105 - 60) \div 3 = 15$ , there are 15 seats per row. Add 2 more rows of seats to 105 to get <b>135</b> seats.				
	A) 110 B) 115 C) 135 D) 145				
24.	The least common multiple of 1, 2, 3, and 4 is <b>12</b> .	24.			
	A) 4 B) 12 C) 24 D) 144	В			
25.	5. Kat cut a paper rectangle into exactly 6 identical squares. The rectangle could have been either 24 cm by 16 cm or 48 cm by 8 cm. Their perimeters are 80 cm and <u>112</u> cm.				
	A) 112 B) 132 C) 152 D) 192				
26.	Stan started running on his birthday. Since 110 days is 15 weeks and 5 days, the first Wednesday he ran was the 5th day he ran; 4 days before that Wednesday was a <b>Saturday</b> .	26. C			
	A) Thursday B) Friday C) Saturday D) Sunday				
27.	45 are divisible by 2, 30 by 3, 15 by 6 (both 2 & 3); $(45-15)+(30-15)=45$ .	27.			
	A) 15 B) 30 C) 45 D) 60	С			
28.	My silly string of lights flashes once every 3 minutes, changes color once every 7 minutes, and beeps once every 9 minutes. Since the l.c.m. of 3, 7, and 9 is 63, my lights next do all three at 63 minutes after 8:00 PM. The time will be 9:03 PM.	28. A			
	A) 9:03 PM B) 9:09 PM C) 11:03 PM D) 11:09 PM				
29.	I added 15 ones digits of 1, carried 1 to the tens column, and added the carried 1 to 14 tens digits of 1. The tens digit of the sum was 5.	29. D			
	A) 1 B) 3 C) 4 D) 5				
30.	Aya added each of the numbers from 10 through 49 and got 1180. Aurora rounded each number from 10 through 49 to the nearest 10, and then added. Aurora added $5 \times 10 + 10 \times 20 + 10 \times 30 + 10 \times 40 + 5 \times 50 = 1200$ . This differs from Aya's sum by <b>20</b> .	30. B			
	A) 19 B) 20 C) 39 D) 40				