

## 2024 Grade Two Spirit of Math Contest Solutions

- 1) **C** Regroup the numbers to make the question easier to solve:  
 $4 + 3 + 6 - 5 + 7$   
 $= 4 + 6 + 3 + 7 - 5$   
 $= 10 + 10 - 5$   
 $= 15$
- 2) **B** Since Anthony is 14 and Alice is half his age, then Alice is  $14 \div 2 = 7$  years old.
- 3) **A** The numbers arranged from least to greatest are: 4, 6, 13, 19, 22. Therefore, 19 is the second largest number.
- 4) **C** Rephrase the question; "All the cars are green except 6." Therefore,  $15 - 6 = 9$  of them are green.
- 5) **D** There are two people in front of Betty and three behind. The total number of people in the line is  $2 + 3 + 1(\text{Betty}) = 6$  people.
- 6) **B** Work backwards. Two days before June 25th is June 23rd. Four days after June 23rd is June 27th. Therefore, Terry's prom is on June 27th.
- 7) **C** A square has 4 sides, a triangle has 3 sides, and a rectangle has 4 sides. The total number of sides is  $4 + 3 + 4 = 11$  sides.
- 8) **D** The pattern is created by adding 1 to the first number, then 2 to the second number, 3 to the third number, then 4 to the fourth number and so on. So, add 5 to the next number to get  $12 + 5 = 17$ .
- 9) **A** Including Manuel, there are 6 people who will share the chocolate bar. To get 6 pieces Manuel must make 5 parallel cuts.
- 10) **A** A) "How much is one nickel worth?" is the first logical question you should ask to help solve the problem.  
B) "How much is a dime worth?" does not help since Gauss didn't find any dimes.  
C) "How many coins did he find?" is given in the question.  
D) "What colour is the couch?" does not help to solve the question
- 11) **B** Since Tom started at the top of page 5, he didn't read 4 pages. Therefore, Tom read  $38 - 4 = 34$  pages.
- 12) **B** The total amount of money between all three people is  $\$2 + \$4 + \$3 = \$9$ . Each person gets \$3 dollars since  $9 \div 3 = 3$ .
- 13) **B** There are 13 students with brown eyes, 6 students with green eyes, and 8 students with blue eyes. There are  $6 + 8 = 14$  students, with eyes that aren't brown. Since 14 is more than 13, there are more students with an eye colour other than brown.
- 14) **D** Dogs have four legs and people have two legs. Three dogs have  $3 \times 4 = 12$  legs and four people have  $4 \times 2 = 8$  legs. So, Oscar counted  $12 + 8 = 20$  legs.

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- 15) **A** Begin with the first word. According to the table,  $\text{---} \text{---} = M$ ,  $\bullet \text{---} = A$ ,  $\text{---} = T$ , and  $\bullet \bullet \bullet \bullet = H$ . This eliminates Option B and Option D. According to the table,  $\bullet \bullet \text{---} \bullet = F$ ,  $\bullet \bullet \text{---} = U$ , and  $\text{---} \bullet = N$ . Therefore, the message must say "Math is fun"
- 16) **D** There are 7 days in a week. So, Ms. Tsang makes  $4 \times 7 = 28$  bracelets in one week and  $28 \times 2 = 56$  bracelets in two weeks.
- 17) **C** Each of the ten players plays against nine other players. That is  $10 \times 9 = 90$  games. However, each game has been counted twice, so the total is  $90 \div 2 = 45$  games.
- 18) **D** 17, 2, 37 is the only option with all prime numbers. The other options contain either composite or special numbers (9 in option A, 1 in option B, and 15 in option C).
- 19) **B** If each of the 12 animals has at least two legs, so  $12 \times 2 = 24$  legs are accounted for. There are  $36 - 24 = 12$  legs left that belong to cows. Each cow needs  $4 - 2 = 2$  more legs added to the two already there, so  $12 \div 2 = 6$  of Alla's animals are cows.
- 20) **C** Draw a diagram:

A	B	C	D
	E		F
G		H	I

# of Letters	Name	# of Rectangles
1	A, C, D, E, F, H, I	7
2	CD, DF, EG, FI, HI	5
3	BCE, DFI	2
5	BCDEF	1
6	ABCEGH	1
9	ABCDEFGHI	1
Total		17

