



Instructions:

1. Do not open this booklet until you are told by your teacher to begin.
2. Materials: pencil, paper — no other materials. NO calculators!
3. You will have exactly **45 minutes** to work on the contest.
4. This is a multiple-choice contest. Each question is followed by five possible answers marked A, B, C, D, and E. Only one of the options is correct. After making your choice, circle the correct letter choice.
5. This form has 7 questions in Part A, 7 questions in Part B, and 4 questions in Part C.
6. Scoring:
 - Each correct answer is worth:
 - 3 points in Part A,
 - 4 points in Part B,
 - 6 points in Part C.
 - Each unanswered question is worth 1 point.
 - Incorrect answers are worth 0 points.

Part A (3 points each)

- Arjun is 8 years old, his brother, Sameer, is twice as old as Arjun. What will be the difference between their ages when Arjun is 13?
(A) 7 Years (B) 8 Years (C) 13 Years (D) 26 Years (E) 21 Years
- From the numbers in the box below, find the difference between the largest odd number and the smallest even number.

45	32	65	46	54	23
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- (A) 13 (B) 19 (C) 31 (D) 33 (E) 39
- 2 hundreds + 130 tens + 24 ones equals
(A) 154 (B) 156 (C) 354 (D) 1524 (E) 213024
 - Alice has 4 more marbles than Bob. Cindy has 13 less marbles than Bob. How many more marbles does Alice have than Cindy?
(A) 1 (B) 3 (C) 9 (D) 17
(E) Cindy has more marbles than Alice
 - This is a reflection of a clock. What time will it show in 50 minutes?



- (A) 3:40 (B) 5:20 (C) 6:40 (D) 8:20 (E) 12:00
- If yesterday was Wednesday, what day will it be 2 days after tomorrow?
(A) Wednesday (B) Thursday (C) Friday (D) Saturday (E) Sunday
 - In order, what operations must you fill in the blanks to get the largest value? 6_2_1
(A) \times, \times (B) $+, \times$ (C) $\times, +$ (D) \div, \times (E) $+, +$

Part B (4 points each)

8. Which of the following expressions is closest to 28?

- (A) 5×7 (B) $32 - 10$ (C) $7 + 8 + 9$ (D) $60 \div 2$ (E) $3 \times 3 \times 3$

9. What is the sum of all the whole numbers from 3 to 12?

$$3 + 4 + \cdots + 12$$

- (A) 31 (B) 65 (C) 70 (D) 75 (E) 80

10. Twinstown is a small village. It has only 4 streets. Each street has 3 buildings, with each building having 2 floors. On every floor of every building, there are 5 families, and each family has two boys. How many boys are in Twinstown?

- (A) 30 (B) 48 (C) 60 (D) 120 (E) 240

11. $\triangle = ?$

$$\begin{aligned}\square - \star &= 10 \\ \star + \star + \star &= 24 \\ \triangle - \square &= 15\end{aligned}$$

- (A) 3 (B) 13 (C) 25 (D) 28 (E) 33

12. Ari was born on December 31, 2000. How many birthdays has he celebrated by January 1, 2021?

- (A) 18 (B) 19 (C) 20 (D) 21 (E) 22

13. When Aliyah left her house for school, the clock on the wall read 7:38. She knows it takes her exactly 18 minutes to get to school. When she arrives, she is surprised to discover that she is 6 minutes late for her 8:00 class. How many minutes behind is her clock at home?

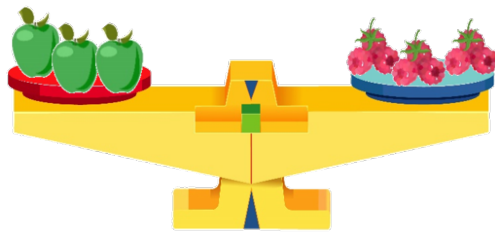
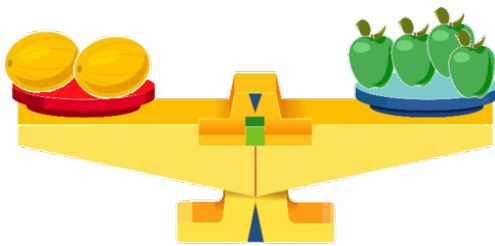
- (A) 2 (B) 10 (C) 12 (D) 22 (E) 24

14. The ring road that goes around Calgary is still under construction. $\frac{2}{3}$ of it has already been completed and 94 km still needs to be done. How long will the ring road be when it is fully completed?

- (A) 34 (B) 68 (C) 94 (D) 188 (E) 282

Part C (6 points each)

15. The mathematical rabbits Aaron, Joyce, Vince, and Vlad were all born in the same year, but in different months. Vince is three months younger than Vlad, and is four months older than Joyce. Aaron is eight months younger than Vince. Who was born in August?
- (A) Aaron (B) Joyce (C) Vince (D) Vlad (E) None of Them
16. Mr. Vlad's Grade 2 students love to play chess. They take turns playing with each of their classmates. If there are 8 students in Mr. Vlad's class, how many different games will be played if every student plays every other student exactly once?
- (A) 8 (B) 16 (C) 24 (D) 28 (E) 56
17. Two melons weigh as much as 4 apples. Three apples weigh as much as 9 raspberries. What does one melon weigh the same as?



- (A) 3 apples (B) 7 apples (C) 3 raspberries (D) 6 raspberries (E) 12 raspberries
18. Beginning with 4 and counting by 7, you get 4, 11, 18, 25, ... If you stop counting at 200, how many numbers do you count?
- (A) 29 (B) 30 (C) 31 (D) 32 (E) 33