5 POINTS

1. When Donna adds 58 and then subtracts 9 from her secret number, she gets 75. What is Donna's secret number?

   A. 124 B. 49 C. 36 D. 26 E. 24

2. Joannie and Nancy have the same amount of money at first. Joannie then found a quarter under the couch and Nancy spent a quarter on a cup of lemonade. How much more money does Joannie have than Nancy now?

   A. 5 ¢ B. 25 ¢ C. 50 ¢ D. 75¢ E. Not available

3. A pencil cost 80¢ and a pen cost 7 times as much as the pencil. Find the total cost of the two items.

   A. $6.40 B. $5.60 C. $5.40 D. $5.20 E. $4.90

4. Each letter stands for a digit. Using digits 0, 1, 2, and 9 only, find the digits of 'STAR'.

```
   R        A A
+  A      –   S
 A T          R
```

   A. 1092 B. 1209 C. 1902 D. 2109 E. 2019

5. Marco has these four coins in his pocket. He needs exactly a dollar to buy a bubble gum. Which of the following group of coins can be added to Marco's coins so that he will have exactly one dollar?

   A. Two dimes and a nickel.
   B. One quarter and two nickels.
   C. Two quarters and two nickels.
   D. One quarter and four nickels
   E. One quarter and three dimes

6. A string is 509 cm long. A ribbon is 50 cm shorter than the string. What is the ribbon length?
   1 m = 100 cm

   A. 5 m 59 cm B. 5 m 51 cm C. 5 m 9 cm D. 4 m 59 cm E. 4 m 51 cm

7. There is a long line at the ticket counter. There are 36 people ahead of Farah and 48 people behind her. Altogether, how many people are in line?

   A. 82 B. 83 C. 85 D. 86 E. 93

8. Tanisha has $428. Myra has $295 more than Tanisha. Sam has $329 less than Myra. How much money do they have altogether?

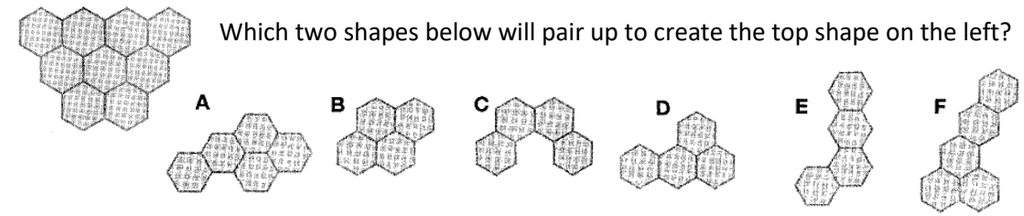
   A. $822 B. $1052 C. $1480 D. $1545 E. $1645

7 POINTS

9. Howard bought 21 notebooks. He also bought and some highlighters. He bought 7 fewer highlighters than notebooks. If each notebook cost $9 and each highlighter cost $4, how much did he spend altogether?

   A. $84 B. $245 C. $235 D. $154 E. $190

10. Which two shapes below will pair up to create the top shape on the left?



   A. A and C B. D and F C. C and F D. B and F E. D and E

11. Alice has $5 more than Ben. Ben has $5 more than Camilla. Camilla has $5 more than Diana. The total amount of money they have is $90. How much money does Ben have?

   A. $30 B. $25 C. $20 D. $15 E. $10

12. Randy is 8 years old. One day he asked his mother about her age. Her mother told him, "When you reach my age, I will be 54 years old." How old is Randy's mother now?

   A. 23 years old B. 24 years old C. 27 years old D. 29 years old E. 31 years old

13. Five children (A, B, C, D, and E) are playing in Mrs. Fleharty's backyard.
   - A is older than B.
   - C is younger than E but older than D.
   - D is older than B.
   - E is younger than A.

   Which of the following is a list the five children, starting with the youngest?

   A. BDCAE B. EABDC C. BDCEA D. CEDBA E. BDECA

14. On Monday, half of the total number of tickets were sold. Another 87 tickets were sold on Tuesday. There were only 43 tickets left unsold. How many total tickets were there to sell at first?

   A. 260 B. 219 C. 217 D. 183 E. 130

15. What is the value of ☺ + ★ ?

```
  ☺ 3
x   ★
  8 6
```

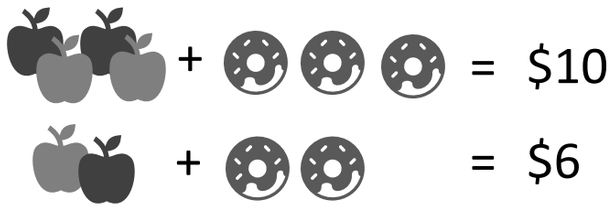
   A. 12 B. 9 C. 8 D. 6 E. 5

10 POINTS

16. If a florist needs 15 flowers to make 3 special bouquets, then how many flowers would my florist need to make 18 special bouquets?

A. 90 B. 54 C. 48 D. 45 E. 36

17.



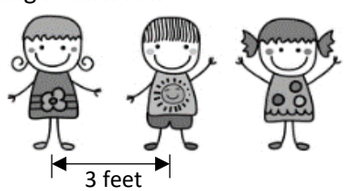
All apples have the same price and all donuts have the same price. What is the cost of an apple and three donuts?

A. $6.50 B. $7.00 C. $7.50 D. $8.00 E. $8.50

18. If I have as many pennies as dimes, then the total values of all these coins could be _____.

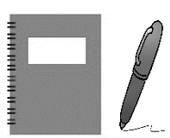
A. $10.11 B. $11.01 C. $1.11 D. $1.10 E. $1.01

19. There are 168 third graders in XYZ Elementary School. All the third graders line up in 7 rows during the school's assembly. If the distance between each student in a row is 3 feet, how long is each row?



A. 21 feet B. 72 feet C. 75 feet D. 68 feet E. 69 feet

20.



A pen cost $4 and a notebook cost $7. Samuel bought 10 items, all pens and notebooks, and paid $64. Find the difference between the number of notebooks and the number of pens he purchased.

A. 2 B. 5 C. 6 D. 7 E. 8

MATH CHALLENGE TOURNAMENT®

FALL 2019

ELLIPSIS ACADEMY

Problem Solving Challenge

Grade 3

Problem 1 – 20

Do not begin until you are instructed to do so.

40 minutes

You may use scratch paper to do any calculation to reach final answers.
Mark your answers in the ANSWER SHEET.
You have 40 minutes to complete the Problem-Solving Challenge