

5 POINTS

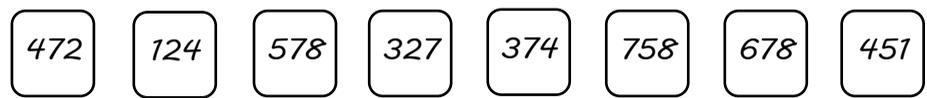
1. What number is hidden behind the smiley face?
 $19 + 17 + 31 = 100 - \text{☺}$
 A 33 B. 36 C. 63 D. 66 E. 43

2. Four friends ate 11 slices of pizza in total. Each of them ate at least one slice, and no two of them ate the same number of slices. One of them ate exactly 3 slices, and three of them ate 9 slices in total. How many slices of pizza were eaten by one of them who ate the most slices?

 A 7 B. 5 C. 6 D. 4 E. 8

3. A bag of sweet potato chips cost \$3. Jeremy paid a total of \$25 for 3 bags of sweet potato chips and 4 boxes of cake mix. How much did a box of cake mix cost?
 A \$3 B. \$4 C. \$5 D. \$6 E. \$4.50

4. There are 800 sheep in a farm. The number of sheep is 134 more than the number of ducks and 246 more than the number of chickens. What is the total number of sheep, ducks and chickens in the farm?
 A 1480 B. 2780 C. 1280 D. 2018 E. 2020

5. Of the following, how many three-digits even numbers are there in which the tens digit is greater than the ones digit and the ones digit is greater than the hundreds digit?

 A 1 B. 2 C. 3 D. 4 E. 5

6. Tamar was writing all the counting numbers from 1 to 30. She stopped for a short rest after writing the 21st digit. What was the last number she wrote right before she stopped?
 A 21 B. 20 C. 18 D. 16 E. 15

7.  Maya bought 30 pounds of rice and kept it in a container. After 5 weeks, 14 pounds of rice was used. If the weight of the container and the remaining rice was 22 pounds, what was the weight of the container?
 A 16 pounds B. 21 pounds C. 12 pounds D. 6 pounds E. 10 pounds

8. During a Food Drive, Rockwell Elementary collected 236 cans of food. Einstein Elementary collected 18 cans less than Rockwell. How many cans of food did the two school collect altogether?
 A 544 B. 454 C. 545 D. 554 E. 444

7 POINTS

9. Rosalea spent half of her money on a sandwich and a drink. The drink cost \$1.75 and the sandwich cost \$4.90. How much money did she have at first?

 A \$13.20 B. \$13.30 C. \$6.70 D. \$6.65 E. \$11.30

10. If P, Q, and R represent the missing digits in the subtraction shown, what is the sum of P + Q + R?

$$\begin{array}{r} 84P \\ - Q68 \\ \hline 4R3 \end{array}$$

 A 8 B. 12 C. 9 D. 10 E. 11

11. Vanessa read some books over the holidays. Eve read three times as many books as Vanessa. Altogether they read 24 books. How many more books did Eve read than Vanessa?
 A 6 B. 12 C. 24 D. 30 E. 36

12. Study the number pattern below carefully.

A	B	C	D	E	F
10	19	28		46	

 If the pattern continues, what number is under the letter K?
 A 110 B. 91 C. 100 D. 89 E. 82

13. Hailey baked a total of 39 chocolate and vanilla cupcakes. She put the chocolate cupcakes into boxes of 5 and the vanilla cupcakes into boxes of 4. What is the possible number of each kind of cupcake Hailey baked?
 A 20 chocolate cupcakes and 19 vanilla cupcakes B. 14 chocolate cupcakes and 25 vanilla cupcakes C. 10 chocolate cupcakes and 29 vanilla cupcakes D. 15 chocolate cupcakes and 24 vanilla cupcakes E. 25 chocolate cupcakes and 14 vanilla cupcakes

14. The pie sale is happening this week. Mr. Locket is excited to purchase some pies for the family reunion this coming Sunday. All pies cost the same. If Mr. Locket buys 5 pies, he will have \$3 left. If he buys 6 pies, he will need \$9 more. How much does a pie cost?
 A \$15 B. \$14 C. \$12 D. \$10 E. \$9

15. Each symbol stands for a number.
 If  +  +  +  = 24
 And  -  = 11
 What is  ×  +  = ?
 A 116 B. 119 C. 160 D. 138 E. 122

10 POINTS	
16.	George and Dan started at the same time on a journey from a town named Millie to a town named Narangan. There is only one path going from Millie to Narangan. After travelling for some time, George was 3 km away from Narangan and 4 km and 320 m ahead of Dan. If the distance between the two towns was 12 km 100 m, how far had Dan travelled when George was 4 km 320 m ahead of him? A 7 km 780 m B. 4 km 780 m C. 7 km 320 m D. 7 m 420 m E. 4 km 320 m
17.	Jessica saves \$3 a day from her allowance. She will spend \$5 to buy a puzzle magazine on every seventh day. How many days will it take Jessica to save \$51? A 18 B. 19 C. 20 D. 21 E. 22
18.	Four buckets of water are needed to fill half of a tank. The tank can hold 144 liters of water. How much water can a bucket hold? A 18 liters B. 4 liters C. 16 liters D. 32 liters E. 36 liters
19.	Ten balls are placed in a straight row with equal spacings between them. If the distance between the first ball and the seventh ball is 126 cm, what is the distance between the fifth ball and the ninth ball? A 84 cm B. 72 cm C. 90 cm D. 105 cm E. 18 cm
20.	<p>Which answer can replace the question mark? A \$3.50 B. \$3.00 C. \$5.50 D. \$4.50 E. \$5.75</p>

MATH CHALLENGE TOURNAMENT

FALL 2018



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