

5 POINTS

1. Three balls cost \$12 more than one ball. How much does one ball cost?
 A. \$3 B. \$4 C. \$4.50 D. \$5 E. \$6

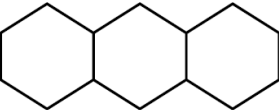
2. When the winner finished a 100-m race, Lamar was 2 meters ahead of Eylon. Chandra was 3 meters behind Lamar. Alfonso was 7 meters ahead of Chandra. Lamar was 5 meters behind Dustin. Who was in first place?
 A. Dustin B. Chandra C. Alfonso D. Eylon E. Lamar

3. The table below shows the number of various animals Jacob saw at the zoo. He saw a total of 87 animals. The number of tigers he saw is the same as number of bears. How many bears did he see?

Animals	Monkeys	Elephants	Tigers	Snakes	Bears
Number of animals	17	9		29	

A. 15 B. 16 C. 26 D. 30 E. 32

4. It takes 6 sticks to build one hexagon, 11 sticks to build two hexagons, 16 sticks to build three hexagons. How many sticks will it take to build ten hexagons?



A. 26 B. 51 C. 52 D. 56 E. 57

5. What number can you double to equal the sum of five 222's?
 A. 111 B. 222 C. 333 D. 555 E. 666

6. There are 3 ways to add two 1-digit numbers to get a sum of 16: 9+7, 8+8, and 7+9. How many ways are there to add two 3-digit numbers to get a sum of 211?
 A. 7 B. 9 C. 12 D. 15 E. 17

7. 5 bottles of drinking water cost \$3. What is the cost of 3 bottles of drinking water?
 A. \$1.80 B. \$0.60 C. \$1.00 D. \$1.20 E. \$1.50

8. Sreeja has the following cards.

1

2

3

4

5

6

Sreeja uses 3 cards to form two 3-digit numbers. She adds these two numbers. What is the greatest sum that Sreeja could get?

A. 1221 B. 1173 C. 1083 D. 999 E. 975

7 POINTS

9. Andy makes a pattern using buttons and pins. He uses 4 pins to surround a button, 6 pins to surround 2 buttons and so on. How many buttons are needed if Andy uses 42 pins?


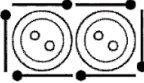
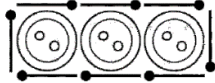
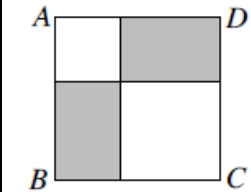




Figure 1 Figure 2 Figure 3

A. 20 B. 21 C. 22 D. 23 E. 24

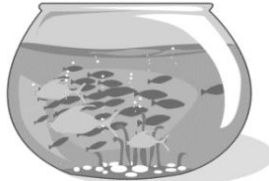
10. The areas of the two white squares inside square $ABCD$ are 4 and 9. What is the sum of the areas of the shaded rectangles?





A. 11
B. 12
C. 13
D. 14
E. 15

11. Joleen had 3 times as many crayons as Jeremy. They had 348 crayons altogether. How many crayons did Joleen have?
 A. 87 B. 232 C. 248 D. 261 E. 283

12. Myra had some goldfish. One day, she found that 5 of her goldfish had died. She then bought the same number as those that were still alive. She then decided to divide all the goldfish equally and gave them to 9 friends, leaving to herself the same number of goldfish as each friend. If each friend received 6 goldfish, how many goldfish did Myra have at the beginning?



A. 28 B. 29 C. 30 D. 32 E. 35

13.  and  represent whole numbers. If $\text{Sun} \times \text{Smiley} = 24$, what is the smallest value of $\text{Sun} + \text{Smiley}$?

A. 14 B. 12 C. 11 D. 10 E. 25

14. Mrs. Moore spent the same amount of time working in her garden every morning. She spent a total of 9 hours 35 minutes on 5 mornings. How much time did she spend working in her garden each morning?
 A. 90 minutes B. 92 minutes C. 95 minutes D. 105 minutes E. 115 minutes

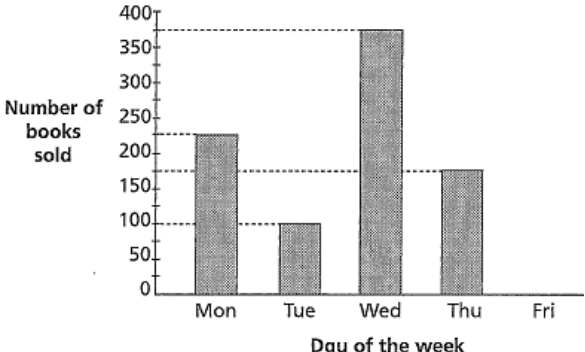
15. Ten cookies cost \$11.00. If each cookie cost the same, how much do 3 cookies cost?
 A. \$3.00 B. \$3.10 C. \$3.30 D. \$3.50 E. \$3.03

10 POINTS

16. The difference between two numbers is 5252. If the larger number is 5 times as big as the smaller number, find the sum of the two numbers.
 A. 8378 B. 8478 C. 8753 D. 8787 E. 7878

17. Mr. Colbert bought 6 books for \$21.50. The price of each type of book is shown below. He bought at least one of each type. How many science fiction books did Mr. Colbert buy?
 A. 1 B. 2 C. 3 D. 4 E. 5

Science Fiction	\$4.00 each
Fairy tale	\$2.50 each
Adventure	\$4.50 each

18. 

If 1125 books were sold from Monday through Friday, how many books were sold on Friday?

A. 250 B. 340 C. 350 D. 370 E. 380

19. In Mr. Houghton's class, three out of five students prefer chocolate ice cream. Two out of five students are evenly divided in their preference for vanilla and strawberry. If one carton of ice cream will feed ten students, how many cartons of vanilla, strawberry, and chocolate ice cream will Mr. Houghton need in order to give his 25 students their choice of flavors for the class party?
 A. 2 cartons of chocolate, 2 cartons of vanilla, 1 carton of strawberry.
 B. 2 cartons of chocolate, 1 carton of vanilla, 1 carton of strawberry.
 C. 1 carton of chocolate, 2 cartons of vanilla, 1 carton of strawberry.
 D. 1 carton of chocolate, 1 carton of vanilla, 2 cartons of strawberry.
 E. None of the above.

20. The doctor gives Maria ointment for her wound. Maria needs to apply the ointment every 1 hour and 30 minutes, 5 times a day. If Maria first applies the ointment at 1:50 p.m., what time will her last application of the ointment be for the day?
 A. 6:20 p.m. B. 6:50 p.m. C. 7:50 p.m. D. 8:20 p.m. E. 9:20 p.m.

MATH CHALLENGE TOURNAMENT MASTERS 2019

April 20, 2019



Problem Solving Challenge Grade 3 Problem 1 – 20

Do not begin until you are instructed to do so.

Problem Solving Challenge (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