2019 Southern Nevada Girls Math Tournament

Grade 3 Contest
General Round

Name: _____

RULES

1. The General Round consists of 25 problems.
2. The General Round must be completed individually.
3. You will have 40 minutes to complete the General Round.
4. You will receive 1 point for each correct answer.
5. There is no penalty for incorrect answers.
6. You may NOT use a calculator on this round.
7. Answers are to be written on the provided lines. Units are not required.

Score: ____/25 pts

1. _____ Adam, Bob, and Charlie each have 4 oranges. If Adam and Bob give all of their oranges to Charlie, how many oranges would Charlie have?

2. _____ James ran 8 miles on Wednesday and 2 miles on Thursday. How many miles has James ran in total?

3. _____ Sheila lost 5 of the 16 quarters she had in her bag. How many quarters does she now have in her bag?

4. _____ Jane is 4 years old when Alex is 10 years old. How old is Jane when Alex is 23 years old?

5. _____ Pennywise, an obsessed penny collector, has 8 jars which can each hold 100 pennies. If all of the jars are full, how many pennies are there?

6. _____ GMT Elementary School has a mandatory nap time that starts at 10:43 AM. If nap time ends at 11:12 AM, how long is nap time?

7. _____ Crystal has 17 shark-shaped lollipops that she wants to give her friends. If she gives 4 to one friend, 3 to another, and 6 to her third friend, how many lollipops does she have left?

8. _____ What is $423 - 274$?

9. _____ Benjamin really loves cookies, but he wants to make sure his friend Joe doesnt notice how much he loves them. Joe wont notice that Benjamin loves cookies unless Benjamin eats at least 3 more cookies than Joe does. If Joe eat 4 cookies, what is the most cookies Benjamin can eat without Joe noticing?

10. _____ In how many ways can the letters in the word GAS be arranged?

11. _____ Maddie did 12 jumping jacks on Monday, and planned to do twice as many jumping jacks on Tuesday. How many jumping jacks did she plan to do on Tuesday?

12. _____ What is the largest number you could reach if you started counting by 2s and stopped before you went over 59?

13. _____ If there are 4 finks in a jwik, how many jwiks are in 16 finks?

14. _____ The alien Zaranar has come to take over planet Earth with four of her alien sisters. If each alien has 17 legs, how many legs would the invading aliens have all together?

15. _____ Perry has to grow four more inches until he is tall enough to ride the Rollercoaster of Doom. If the height requirement for the rollercoaster is 5 ft, how tall is Perry in inches?

16. _____ The Great Lord Drglar has 8 teeth. To finish eating an apple, The Great Lord Drglar needs 999,992 teeth. How many more teeth must The Great Lord Drglar acquire?

17. _____ Local hero Soulja Man is committed to hitting that whip and nae-nae. If a singular whip takes 3% of Soulja Mans energy, and a singular nae-nae takes 4% of Soulja Mans energy, how many times can Soulja Man fully hit the whip and nae-nae together before he has to take a break?

18. _____ Lairey can say the word "Pog" 20 times in one minute. How long does it take Lairey to say "Pog" 560 times?

19. _____ John Wick is trapped downtown, and to escape he needs your help solving for x: $10x - 5 = 5$.

20. _____ Steve is mining diamonds at a rate of 8 diamonds per hour, but Herobrine is taking diamonds out of Steves house at a rate of 5 diamonds per hour. If Steve started with 30 diamonds, how many hours will it take until Steve has 60 diamonds?

21. _____ Shane Dawson is making a documentary on Japaul. Shane can only film on Sundays, because he is too cool to record any other day. If August 30, 2019 is a Friday, how many times can Shane Dawson film during September?

22. _____ A police chase is going down in Dubai, The police are 3,768 miles away from the armed robbers, if the police vehicles speed tops out at 300 MPH and the robbers vehicles top out at 120 MPH how long will it take to catch up to the armed robber? Round to the nearest hour.

23. _____ Hikmet weighs exactly twice as much as a barrel of cream cheese, and their weights totalled together 495 pounds. How many pounds did the barrel of cream cheese weigh?

24. _____ Gekyume is making an album with Jahseh. In 7 years, Jahseh will be 3 times as old as Gekyume. If Jahseh is 20 years older than Gekyume right now, how old is Jahseh now?

25. _____ I think Moto-Moto likes you. For Moto-Moto to completely like you, you need to be "chunkay". To be "chunkay", you have to consume 10 pounds of food a second. Right now, you are not "chunkay" because you only consume 1 pound of food a second. How many more pounds of food per minute must you consume to be chunkay?

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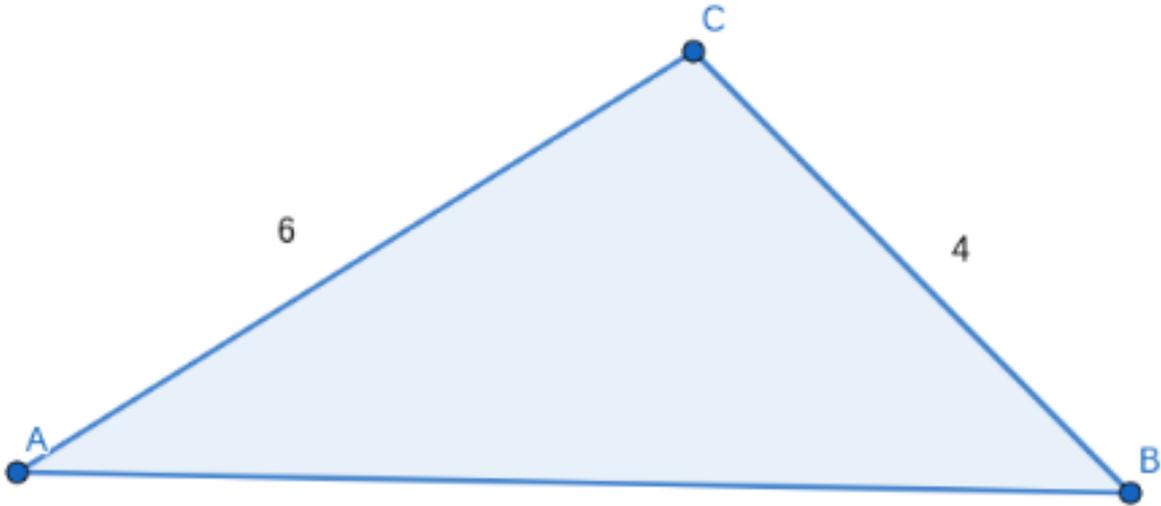Grade 3 Contest
Target Round

Name: _____

RULES

1. The Target Round consists of 8 problems.
2. The Target Round must be completed individually.
3. You will have 6 minutes to complete each pair of questions.
4. The Target Round consists of 4 pairs, or 8 questions.
5. You will receive 2 points for each correct answer.
6. There is no penalty for incorrect answers.
7. You may use a calculator on this round.
8. Answers are to be written on the provided lines. Units are not required.

Score: ____/16 pts

1. _____ If the pattern 5, 10, 15 continues on forever, what is the 15th term?

2. _____ If $x + y = 8$ and $x - y = 4$, what is x?

3. _____ What is the perimeter of a square with area 16?

4. _____ The fraction $\frac{2}{3}$ is unsimplified so that the numerator and denominator add up to 110. One example of simplifying a fraction is making it $\frac{4}{6}$ or $\frac{6}{9}$. What is the unsimplified fraction?

5. _____ Everyday 5 coins fall out of Michaels pocket. At what day will I realize that I left 34 coins?

6. _____ If the perimeter of the triangle below is 17, what is the length of AB?

7. _____ A lake is filled with 22 fish in the morning. After every morning, 4 fish swim out of the lake and after every night, 3 fish swim in. After how many mornings will the lake first be empty?

8. _____ Every day after day one, one virus cell doubles. If you start with one virus, by which day does the number of viruses exceed 100? Each day is called Day 1, Day 2, and so on.

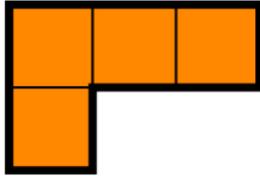# 2019 Southern Nevada Girls Math Tournament

Grade 3 Contest
Team Round

Team Name: _____

RULES

1. The Team Round consists of 10 problems.
2. The Team Round must be completed in teams of up to 4.
3. Your team will have 20 minutes to complete the Team Round.
4. Your team will receive 1 point for each correct answer.
5. There is no penalty for incorrect answers.
6. You may use a calculator on this round.
7. Answers are to be written on the provided lines. Units are not required.

Score: ____/10 pts

1. _____ David likes shaking hands with girls. There are a group of four girls. If the girls first shake hands with each other once, then David shakes hands with the girls, how many handshakes took place?

2. _____ A four digit number contains the digits 1, 2, 3, and 4 exactly once. How many numbers are possible?

3. _____ Clark is reading a book with 120 pages. He reads 15 pages a day on weekdays and 20 pages a day on the weekend. If he starts reading the book on Monday, then on what day will he finish the book, assuming that he reads every day?

4. _____ Find the area of the figure if one side length of a square in the figure is 2.

5. _____ At a hockey game, when a player scores three points in one game, it is called a hat trick. When a player achieves a hat trick at a home game, the crowd will throw their hats on to the ice. Not everyone throws their hats onto the ice, as some may want to keep them. In a particular game, William Karlsson achieved a hat trick. If 4000 fans do not throw their hats on to the ice, and the amount of people who did was one fifth, how many people attended this game?

6. _____ Po the Kung Fu Panda is training to be the worlds greatest Kung Fu master and the "Dragon Warrior". If Po can kick green backpacks at a rate of 2 per minute, blue backpacks at a rate of 20 per hour, and white backpacks at a rate of 0.05 per second, how long will it take Po to kick 800 backpacks in total to become the "Dragon Warrior"?

7. _____ It takes an average child 20 minutes to finish math homework, 30 minutes to finish science homework, 1 hour to finish reading homework, and 20 minutes to finish history homework. What percent of a childs day is dedicated to finishing homework? Round your answer to the nearest percent.

8. _____ Apex Legends Gamer BGCryptic has recently started a new youtube channel. He decided to advertise his channel by changing his username to ApexLegendsGamerYT, and has started gaining subscribers at an alarming rate! The amount of subscribers has been increasing at a rate at about 1,000 per second! How many subscribers will he have gained in one day?

9. _____ Baby Shark is participating in a fishing competition. After a long day of catching fish, he achieved first place! He caught 500 more fish than the second-place competitor, Moto Moto. Moto Moto has caught 218 more fish than the third-place competitor. If there is a total of 1,000 fish in the pond, how many fish did Baby Shark catch to achieve first place in the competition?

10. _____ Nora Inka Ninka Jinka Amaphan has invited all 9999 of her friends to her birthday party. She is planning to buy pizza so that all of her friends can eat. Assuming that one box of pizza costs $4.50 and contains 12 slices, how much will it cost for Nora to buy enough pizza so that each friend, including Nora, is able to consume 2 slices.