

Mission Math Utah Winter Competition (1-2)

You will have 40 minutes to complete as much of this test as you can. There are 20 free response questions total, and questions are arranged roughly from easiest to most difficult. Units are not needed. Write answers on the given line below each question. Calculators are not allowed. Do not begin the test until told to do so. Good Luck!

Full Name: _____

Grade: _____

Age: _____

1. If Luke has 5 apples and 2 oranges, how many fruits does he have total?

2. Kiran had 22 pies, but then he got robbed. If Kiran now has 16 pies, how many pies were stolen?

3. Sahil bought two ice cream cones. They cost him 40 cents in total. How much does one ice cream cone cost?

4. James wants 30 pencils. If he has 21 pencils right now, how many more pencils does he need?

5. How many sides do a triangle and a square have in total?

6. At the local marketplace, an energy drink costs \$1.50. Aidan walks into the store with \$20.00, with hopes of buying as many drinks as possible. How many drinks can Aidan buy?

7. Sally, Billy, and Bobby want an equal number of pieces of chocolate. If there are 12 total pieces of chocolate, how many pieces should each of them get?

8. What are the chances of flipping a coin and getting heads? (Answer in fractions)

9. What is the value of $1+3+5+7+9+11$?

10. John has 3 piles of sticks. The first pile has 3 sticks that are all 4 inches long. The second pile has 5 sticks that are each 1 inch long. The third pile has 4 sticks that are each 2 inches long. If John takes all his sticks and lays them out end-to-end, how long will the sticks be in total?

11. Brendon drinks 2 shakes in 24 minutes. How long will it take him to drink 3 shakes?

12. Skai wants to buy his mom a \$22 gift. If he gets paid \$7 for every hour he works, how many whole hours does he need to work to be able to buy the gift?

13. This competition has 3 divisions. Each division's test has 20 problems. How many problems are used in this entire competition?

14. If 140 marshmallows are given to 10 kids equally, how many marshmallows should each kid get?

15. A farmer has a square field with a side length of 4. What length of fencing will he need to surround the entire field?

16. Half a pound of candy costs \$3.30. How much does a whole pound of candy cost?

17. Mingchuan has \$150 in cash. If he only has twenty dollar bills and five dollar bills and he has an equal number of each bill, how many total bills does he have?

18. $Y + 2 = 5$ for some number Y . what is the value of $5 \times Y$?

19. Joe plays golf every 3 days and Donald plays golf every 5 days. If they play on the same day today, in how many days will they play on the same day again?

20. There are 24 permutations (different arrangements) of the letters in the word BLUE, such as UBLE or EBLU. For how many of them is the letter E not the last letter?
