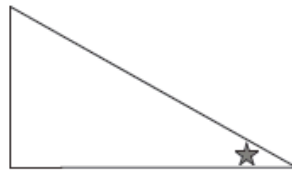


2013 BCCTM 4th Grade Individual Test

1. At a free-throw shooting contest it is determined that Geoffrey makes 7 out of 9 shots. If Geoffrey shoots 63 times, how many shots would you expect him to make?
a) 49 shots b) 27 shots c) 54 shots d) 63 shots
2. In 1968 a teacher found a mathematics book that her great-grandfather checked out in 1829. The fine was \$2,274.00. How many years overdue was the book?
a) 139 years b) 141 years c) 145 years d) 197 years
3. Which fraction is larger than $\frac{1}{2}$?
a) $\frac{13}{30}$ b) $\frac{9}{20}$ c) $\frac{2}{5}$ d) $\frac{19}{34}$
4. A group of students solved 10,800 math problems during Math Week. Each student solved 75 problems. How many students solved problems during Math Week?
a) 135 b) 144 c) 10,725 d) 810,000
5. Peter decided to exercise on Saturday and Sunday. On Saturday, he jogged 1 mile. On Sunday, he jogged twice as far. How far did Peter jog in the two-day period?
a) 9 miles b) $4\frac{1}{2}$ miles c) 3 miles d) $2\frac{1}{4}$ miles
6. **This question has been thrown out and will not count towards the individual results.**
7. In which equation could w have a value 16 and y a value of 17?
a) $w - 1 = y$ b) $w \times 1 = y$ c) $w + 1 = y$ d) $2 \times w - 5 = y$
8. Use the following triangles to answer the Question.

Ann rotates this triangle 90° clockwise.



Which choice shows Ann's triangle after the 90° rotation?

A



B



9. Debbie went to pick apples from the orchard. She picked a bushel of 180 apples. She wanted to put them in little baskets that can each hold 9 apples. How many baskets will she need to pack the apples?
- a) 12 b) 20 c) 24 d) 30

10. The table shows how many T-shirts of each color Paul has in his closet.

Color Paul has in his closet. Color	Number of Shirts
Green	3
Red	4
White	5
Blue	8
Total	20

If Paul chooses a T-shirt without looking, what is the probability that it will be blue?

- a) 4% b) 8% c) 40% d) 60%

11. A snack bar sells 5 items with a mean (average) price of \$0.60, as shown below.

Snack Menu
Chips \$0.50
Juice \$0.80
Apple \$0.60
Candy \$0.70
Gum \$0.40

Which pair of items could be added to the menu without changing the average price?

- a) Banana (\$0.60) and Soda (\$0.75)
b) Banana (\$0.60) and Cookie (\$0.50)
c) Energy Bar (\$0.45) and Cookie (\$0.50)
d) Energy Bar (\$0.45) and Soda (\$0.75)
12. A dime has a radius of about 0.85 cm. Which measurement is closest to the circumference of a dime?
- a) 1.33 cm b) 1.70 cm c) 2.67 cm d) 5.34 cm

13. A tank is in the shape of a triangular prism. If the triangular base has an area of 116 sq ft., and the tank is 30 feet tall, how much water would the tank contain when it is full?
- a) 1725 ft^3 b) 1740 ft^3 c) 3480 ft^3 d) 6960 ft^3
14. If a freight train travels at a speed of 20 miles per hour for 6 hours, how far will it travel?
- a) 120 miles b) 80 miles c) 26 miles d) 12 miles
15. A telephone company charges \$0.05 per minute for local calls and \$0.12 per minute for long-distance calls. Which expression gives the total cost in dollars for x minutes of local calls and y minutes of long-distance calls?
- a) $0.05x + 0.12y$ b) $0.05x - 0.12y$ c) $0.17(x+y)$ d) $0.17xy$
16. What is the greatest common divisor of 54, 36, and 24?
- a) 2 b) 3 c) 6 d) 9
17. The Sojourn family went on a vacation. They started with \$2000. If they spent \$150 each day, which expression represents how much money they had after x days?
- a) $1850x$ b) $2000 - 150x$ c) $150x$ d) $2000 + 150x$
18. The original price of a new bicycle is \$138.00. If the bicycle is marked down 15%, what is the new price?
- a) \$20.70 b) \$117.30 c) \$123.00 d) \$153.00
19. If 50% of a number is 20, what is 75% of the number?
- a) 8 b) 15 c) 30 d) 45

20. What is the order of the following set of numbers from greatest to least?

$1\frac{1}{3}$, $\frac{2}{3}$, $-\frac{1}{3}$, $\frac{9}{5}$

- a) $-\frac{1}{3}$, $\frac{2}{3}$, $\frac{9}{5}$, $1\frac{1}{3}$
- b) $-\frac{1}{3}$, $1\frac{1}{3}$, $\frac{2}{3}$, $\frac{9}{5}$
- c) $\frac{9}{5}$, $\frac{2}{3}$, $1\frac{1}{3}$, $-\frac{1}{3}$
- d) $\frac{9}{5}$, $1\frac{1}{3}$, $\frac{2}{3}$, $-\frac{1}{3}$

21. Miss Sankey is going to choose one person from each of the two lists below to represent the class in student council.

List 1	List 2
Ann	Dave
Carlos	Mia
Lisa	

Which set shows all the possible choices of two people?

- a) {(Ann, Carlos), (Ann, Lisa)}
 - b) {(Ann, Dave), (Ann, Mia)}
 - c) {(Ann, Dave), (Ann, Mia), (Lisa, Dave), (Lisa, Mia)}
 - d) {(Ann, Dave), (Ann, Mia), (Carlos, Dave), (Carlos, Mia), (Lisa, Dave), (Lisa, Mia)}
22. Wendy wants to take a survey to determine which flavor of ice cream is the most popular at her school. Which of the following methods is the *best* way for her to choose a random sample of the students at her school?
- a) selecting ten students from each homeroom
 - b) selecting members of the girls' softball team
 - c) selecting members of the boys' softball team
 - d) selecting students who like her favorite flavor ice cream
23. Marcus spent \$3.25 to wash his car. If one quarter operates the car wash for 60 seconds, how long did it take him to wash his car?
- a) 10 minutes
 - b) 13 minutes
 - c) 16 minutes
 - d) 32 minutes

24. Where should addition signs be placed between digits of the number 987654321 to get a total of 90?

a) $9 + 8 + 76 + 5 + 4 + 3 + 21$

b) $9 + 8 + 7 + 6 + 54 + 3 + 2 + 1$

c) $9 + 8 + 7 + 6 + 5 + 4 + 32 + 1$

d) $9 + 8 + 765 + 4 + 32 + 1$

25. A girl has to be at school by 8:00 A.M. It takes her 20 minutes to eat breakfast, 35 minutes to get dressed, and 15 minutes to walk to school. What time should she get up in the morning?

A.M a) 7:00 A.M. b) 6:50 A.M. c) 6:40 A.M. d) 6:30

26. Five hundred forty people went to the mall on Saturday. Twice as many people went to the mall on Sunday. How many people went to the mall for the entire weekend?

a) 1,080 b) 1,620 c) 1,480 d) 1,220

27. Emma has enough money to buy six compact discs per week. How many weeks until Emma can buy 30 compact discs?

a) 5 b) 6 c) 7 d) 8

28. In the first year of production a play sells 872 tickets, in its second year it sells 1053 tickets, in its third year it sells 92 less than in its second year. How many tickets are sold in 3 years?

a) 1,961 b) 2,961 c) 2,886 d) 3,986

29. To go to the zoo, seven cars carried 28 people. If the same number of people were in each car, how many people were there per car?

a) 7 b) 6 c) 5 d) 4

30. Mindy had 15 minutes to get to work. How many seconds did she have?

a) 60

b) 300

c) 900

d) 1,200