

# **Diocese of Davenport**



## **5<sup>th</sup> Grade**

### **Math Assessment**

**2009**

**DIRECTIONS:**

The following test has multiple choice questions.

Read the story and then on the multiple choice questions please review all of the choices and select the one you think best answers the question.

**SAMPLE QUESTION:**

1. Which of these would you find growing in a desert?
- A. A maple tree
  - B. A dandelion
  - C. A cactus
  - D. A corn plant

**SAMPLE**

Please completely fill in the circles that best represent your responses. Fill in marks like this: ● not like this: ○ ⊗

- |    |  |     |   |     |   |
|----|--|-----|---|-----|---|
| 1. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 34. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 67. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 2. | <input type="radio"/> A <input type="radio"/> B <input checked="" type="radio"/> C <input type="radio"/> D | 35. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 68. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 3. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 36. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 69. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 4. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 37. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 70. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 5. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 38. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 71. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |
| 6. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D            | 39. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D | 72. | <input type="radio"/> A <input type="radio"/> B <input type="radio"/> C <input type="radio"/> D |

**CODES:**

Bettendorf Lourdes	01
Burlington Notre Dame	02
Clinton Prince of Peace	04
Dav. Assumption	05
Dav. All Saints	06
Dav. JFK	07
Dav. St. Paul the Apostle	08
DeWitt St. Joseph	09
Holy Trinity	10
Iowa City Regina	11
Keokuk Catholic	12
Muscatine Bish. Hayes	13
Ottumwa Seton	14
Washington St. James	15

*Do not write in this test booklet.*

Fred's Rope

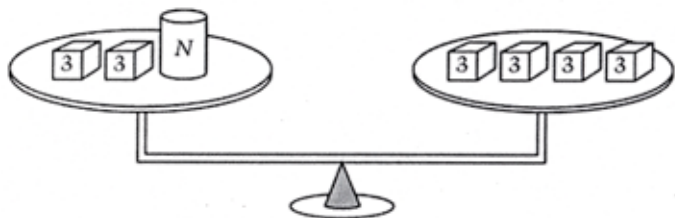
12 inches

Susan's Rope

If Fred's rope is 12 inches long, about how long is Susan's rope?

- A. 16 inches
- B. 20 inches
- C. 24 inches
- D. 30 inches

2.



The weights on the scale above are balanced. Each cube weighs 3 pounds. The cylinder weighs  $N$  pounds. Which number sentence best describes this situation?

- A.  $6 + N = 12$
- B.  $6 + N = 4$
- C.  $2 + N = 12$
- D.  $2 + N = 4$

3.



Rico bought 10 cards, which cost \$12.20 before tax. How many packages of each type did he buy?

- A. 2 packages of 3
- B. 2 packages of 3 and 1 package of 4
- C. 4 packages of 3
- D. 1 package of 3 and 2 packages of 4

4. Five classes are going on a bus trip and each class has 21 students. Three of the classes are 4th grade and two of the classes are 5th grade. If each bus holds only 40 students, how many buses are needed for the trip?

- A. 2 Buses
- B. 3 Buses
- C. 4 Buses
- D. 5 Buses

5.



Melissa chose one of the figures above.

- The figure she chose was shaded.
- The figure she chose was not a triangle.

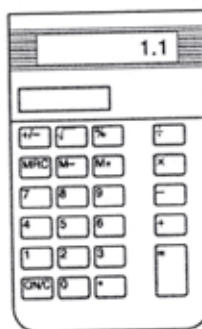
Which figure did she choose?

- A. A
- B. B
- C. C
- D. D

6. Which group contains numbers with 4 as a factor?

- A. 7, 10, 14
- B. 3, 9, 15
- C. 4, 8, 12
- D. 1, 4, 8

7.



Ben bought four items at a bake sale and added their cost on his calculator. The total cost read 1.1 on the calculator. What amount does Ben need to pay?

- A. 11 cents
- B. 1 dollar and 1 cent
- C. 1 dollar and 10 cents
- D. 11 dollars

8. There will be 58 people at a breakfast and each person will eat 2 eggs. There are 12 eggs in each carton. How many cartons of eggs will be needed for the breakfast?

- A. 9
- B. 10
- C. 72
- D. 116

9.



\$4.95



\$2.45

SALES TAX TABLE

Amount of Sales	Amount of Tax
\$6.00	\$0.36
6.20	0.37
6.40	0.38
6.60	0.40
6.80	0.41
7.00	0.42
7.20	0.43
7.40	0.44
7.60	0.46
7.80	0.47
8.00	0.48

Carlos bought the cereal and milk shown. Use the table to find out the total amount Carlos spent, including tax.

- A. \$6.78
- B. \$7.84
- C. \$7.73
- D. \$7.40

10. Mark's room is 12 feet wide and 15 feet long. Mark wants to cover the floor with carpet. The carpet costs \$2.60 per square foot. How much will the carpet cost?

- A. \$468.00
- B. \$180.00
- C. \$68.20
- D. \$31.20

11.

In	Out
2	5
3	7
4	9
5	11
15	31
38	

The table shows how the "In" numbers are related to the "Out" numbers. When 38 goes in, what number comes out?

- A. 41
- B. 51
- C. 54
- D. 77

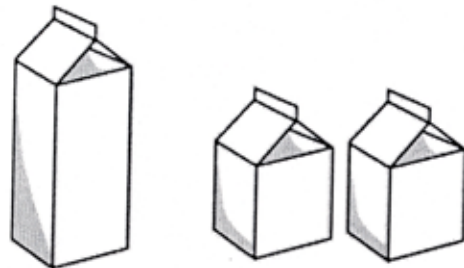
12.



The clock shows the time that Bill leaves his house in the morning. He returns 6 hours and 25 minutes later. At what time does he return?

- A. 5:15 A.M.
- B. 5:40 A.M.
- C. 5:15 P.M.
- D. 5:40 P.M.

13.

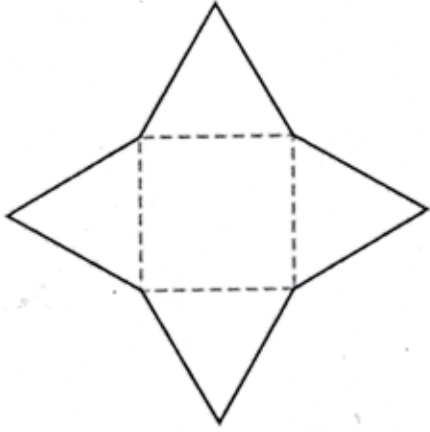


1 quart = 2 pints

Mr. Harper bought 6 pints of milk. How many quarts of milk is this equal to?

- A. 3
- B. 4
- C. 6
- D. 12

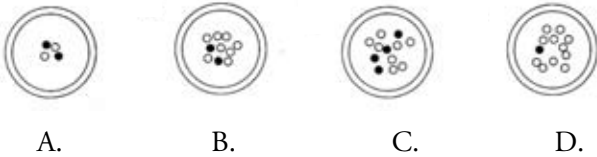
14.



What three-dimensional shape could be made by folding the figure above on the dotted lines until the points on the triangles meet?

- A. Triangle
- B. Pyramid
- C. Cube
- D. Cone

15. A person is going to pick one marble without looking. For which dish is there the greatest probability of picking a black marble?



16.



What fraction of the group of umbrellas is closed?

- A.  $\frac{1}{3}$
- B.  $\frac{3}{7}$
- C.  $\frac{4}{7}$
- D.  $\frac{3}{4}$

17. Which of the following could be the length of the pencil you use in school?

- A. 6 Feet
- B. 6 Pounds
- C. 6 Ounces
- D. 6 Inches

18.



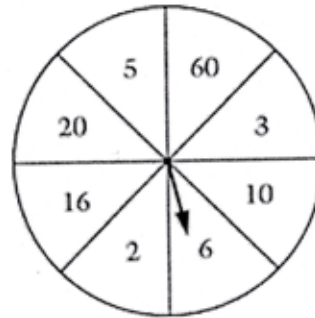
Which set of numbers belong in circle A?

- A. 3, 17, 121
- B. 2, 5, 47
- C. 2, 20, 22
- D. 10, 29, 57

19. Which of these units would be the best to use to measure the length of a school building?

- A. Millimeters
- B. Centimeters
- C. Meters
- D. Kilometers

20.



If the arrow is spun and stops in one of the 8 spaces, what is the probability that the arrow will stop in the space labeled 6?

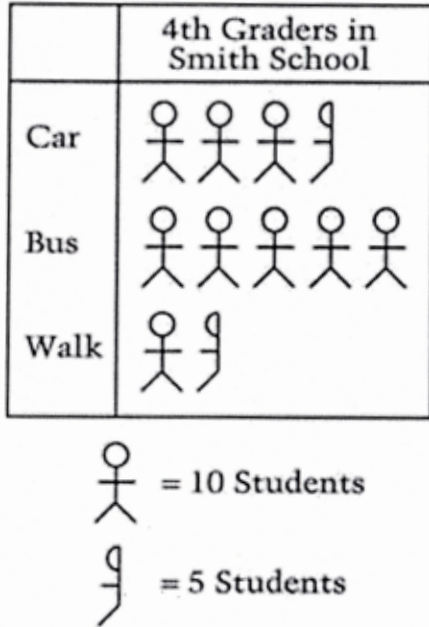
- A. 1 out of 6
- B. 1 out of 8
- C. 1 out of 10
- D. 1 out of 60

21. Paco had 32 trading cards. He gave N trading cards to his friend. Which expression tells how many trading cards Paco has now?

- A.  $32 + N$
- B.  $32 - N$
- C.  $N - 32$
- D.  $32 \div N$

22. Which of these would be easiest to solve by using mental math?
- A.  $\$65.12 - \$28.19$
  - B.  $358 \times 2$
  - C.  $1,625 \div 3$
  - D.  $\$100.00 + \$10.00$

23.



The pictograph shows how all the 5th graders at Smith School get to school. According to the pictograph, how many 4th graders attend Smith School?

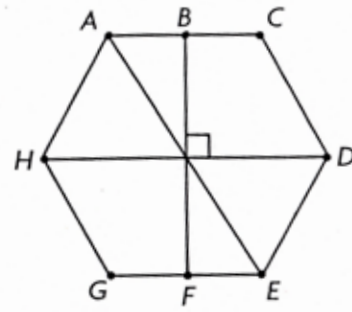
- A. 95
- B. 100
- C. 105
- D. 110

24. 14, 26, 38, \_\_\_\_\_, \_\_\_\_\_

The numbers in the pattern above are increasing by 12. Which of these numbers is part of the pattern?

- A. 52
- B. 58
- C. 60
- D. 62

25.



Which 2 line segments are perpendicular?

- A.  $\overline{BF}$ ,  $\overline{AE}$
- B.  $\overline{HD}$ ,  $\overline{BF}$
- C.  $\overline{GE}$ ,  $\overline{HD}$
- D. None

26. Which fraction is equivalent to 0.25?

- A.  $\frac{1}{25}$
- B.  $\frac{1}{6}$
- C.  $\frac{1}{4}$
- D.  $\frac{1}{2}$

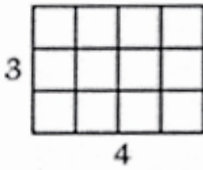
27. Find the sum.  $\frac{3}{7} + \frac{2}{7}$ .

- A.  $\frac{1}{7}$
- B.  $\frac{2}{7}$
- C.  $\frac{5}{7}$
- D.  $\frac{5}{14}$

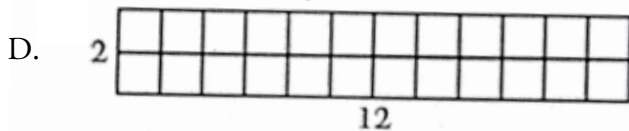
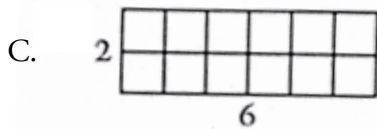
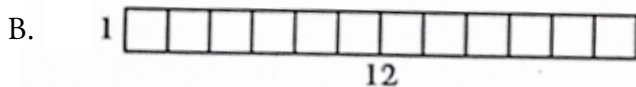
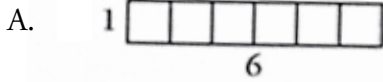
28. Find the difference  $1\frac{10}{12} - \frac{4}{12}$

- A.  $1\frac{4}{12}$
- B.  $\frac{6}{12}$
- C.  $\frac{5}{12}$
- D.  $\frac{6}{24}$

29.



Which rectangle below has the same perimeter (distance around) as the rectangle above?



30. Estimate by rounding. Mr. Watkins is buying a stereo system. The speakers are \$79, the CD player is \$119, and the tuner is \$59. About how much money does Mr. Watkins need to buy the stereo system?

- A. \$300
- B. \$250
- C. \$257
- D. \$260

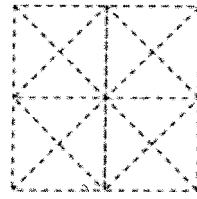
31.  $(3 \times 2) \times 6 = 3 \times \square \times 6$

- A) 2
- B) 3
- C) 6
- D) 1

32. Find the quotient when the dividend is 15 and the divisor is 3.

- A. 12
- B. 18
- C. 5
- D. 45

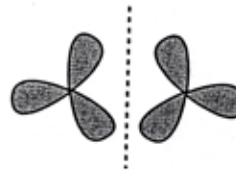
33.



In the figure, how many rectangles are not squares?

- A. 2
- B. 4
- C. 8
- D. 16

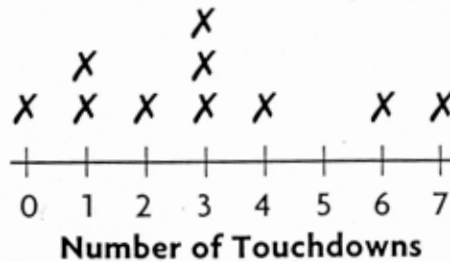
34.



How was the figure moved?

- A. Translation
- B. Rotation
- C. Reflection
- D. None of the above

Use the line plot for questions 35 and 36.



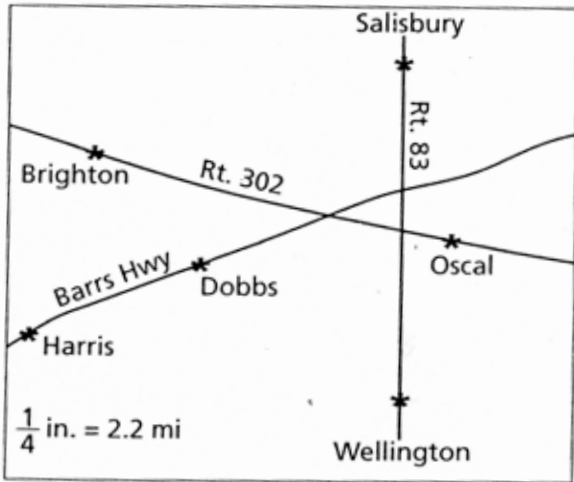
35. What is the mode?

- A. 2
- B. 3
- C. 4
- D. 5

36. What is the range

- A. 4
- B. 5
- C. 6
- D. 7

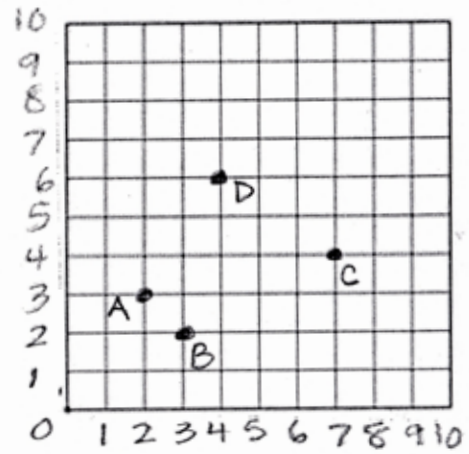
37



What is the actual distance from Brighton to Oscal?

- A. 8.8 miles
- B. 4.8 mile
- C. 2.0 miles
- D. 17.6 miles

41.



Which point represents the coordinate (3,2)?

- A. Point A
- B. Point B
- C. Point C
- D. Point D

38. Comparing one week in March to one week in August, which week would probably have the most sunny days?

- A. A week in March
- B. A week in August
- C. Both weeks would have the same amount of sunny days
- D. Need an answer here.

39. Which type of graph would best represent the data regarding the daily temperatures in February?

- A. Bar Graph
- B. Pie Chart
- C. Line Graph
- D. Pictograph

40. Which sample would most accurately represent the Brown Elementary students' opinions about Friday's school lunch?

- A. Janna's friends
- B. Mrs. Smith's class
- C. The third grade
- D. A random sample of the first 20 students of each grade in the lunch line



*Do not write in this test booklet.*