Second Grade Test: Measurement & Data

Name _____ Teacher _____ Date_____

2.MD.A.1 Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.

1. Which is the best unit to measure this cell phone?

a. inch   **b.** foot   **c.** yard   **d.** mile
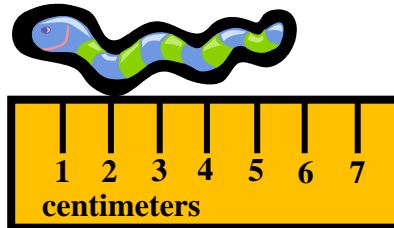
2. Clara is measuring the height of a bookcase. Which is the correct measuring tool?

        a. ruler   **b.** meter stick
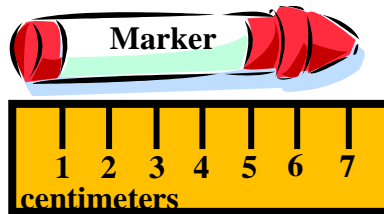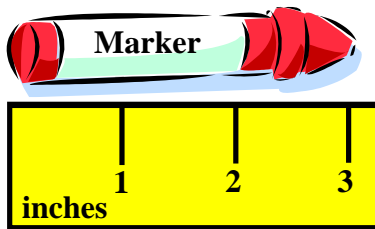
3. How long is this worm?

        a. 6 cm   **b.** 7 cm

2.MD.A.2 Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.

4. Describe how the two measurements relate.
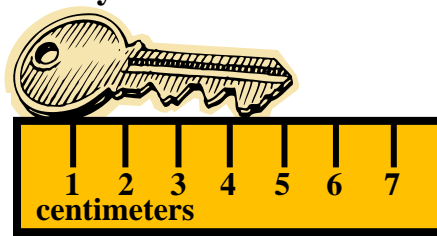
        a. The larger the measure, the fewer measures.
        b. The smaller the measure, the more measures.
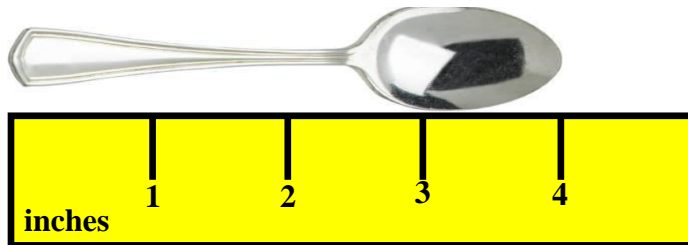   c.   both a and b
        d. answer not here

2.MD.A.3 Estimate lengths using units of inches, feet, centimeters, and meters.

5. About how long is the key?

a. 5 cm   **b.** 6 cm

6. About how long is the spoon?

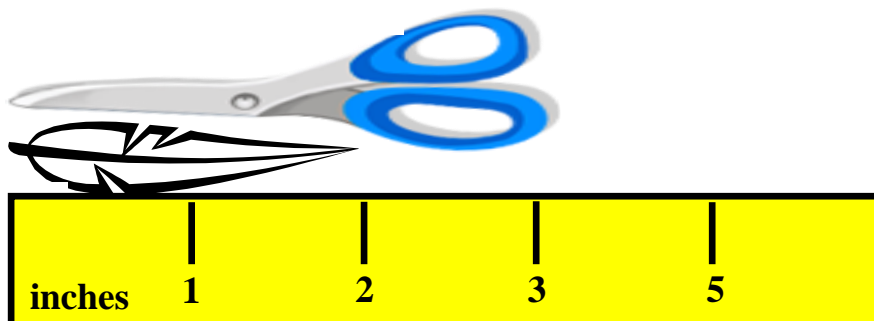**a.** 3 inches   **b.** 4 inches

7. About how long is the line?

a. 2 inches   **b.** 8 centimeters   **c.** both a and b   **d.** answer not here
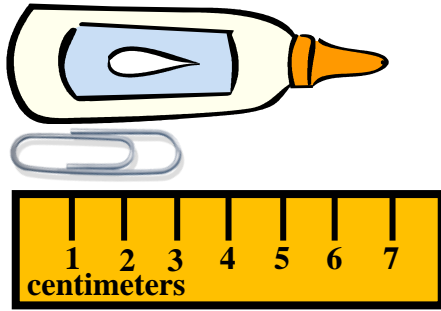
2.MD.A.4 Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.

8. How much longer are the scissors than the feather?

a. one inch   **b.** two inches   **c.** answer not here

MD2

9. How much longer is the glue bottle than the paper clip?

        a. 2 cm   **b. 3 cm**   **c. 4 cm**

2.MD.B.5 Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.

10. Justin kicked the soccer ball 15 yards, and Jake kicked the soccer ball 20 yards. How many more yards did Jake kick the ball than Justin?

$$20 - 15 = x$$

        a. 10 yards   **b.** 5 yards   **c.** 35 yards

11. Elijah and Samuel ran 95 meters total. Elijah ran 60 meters. How many meters did Samuel run?

$$95 - x = 60$$

        a. 35   **b.** 30   **c.** 65

2.MD.B.6 Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram.

12. Jean and Peggy rode their bicycles for a total of 34 miles. Jean rode her bicycle for 17 miles. How many miles did Peggy ride her bicycle?
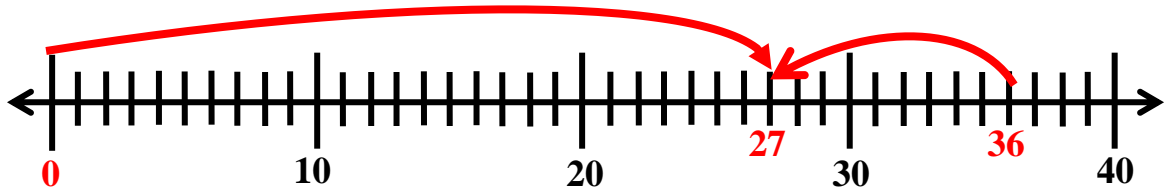
$$17 + x = 34$$
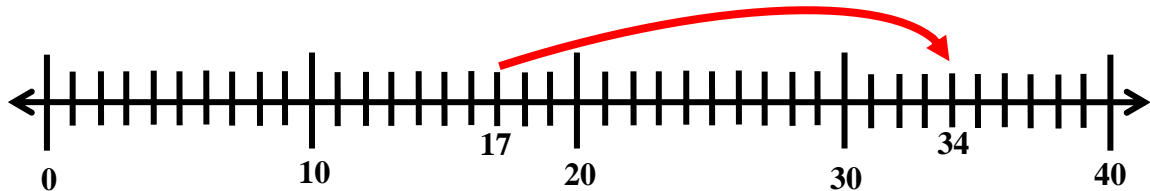
        a. 17 miles   **b.** 55 miles   **c.** 16 miles

13. Bob's garden is 27 feet long, and Gary's garden is 36 feet long. What is the difference between the lengths of the gardens?
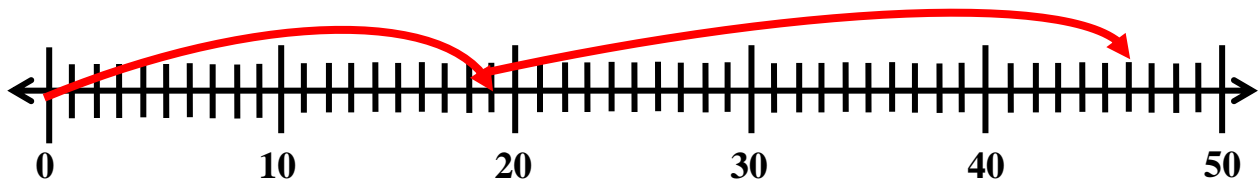
$$36 - 27 = x$$

a. 10 feet   **b.** 9 feet   **c.** 11 feet

14. Emma scored 19 points in the basketball game, and Isabella scored 27 points. How many points did the two girls score together?
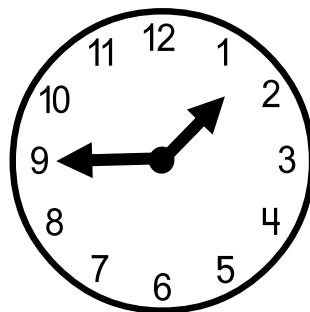
$$19 \ + \ 27 \ = \ x$$

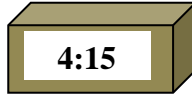**a.** 45   **b.** 47   **c.** 46

2.MD.C.7 Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.
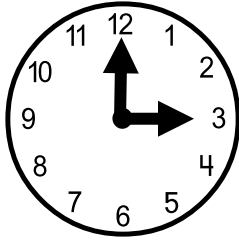
15. What time is it?

a. 2:15   b. 1:45   c. 2:45

MD4

16. What time is it?

4:15

a. 15 minutes after 4:00   **b.** 4:15   **c.** both a and b   **d.** answer not here

17. Jennifer completed her homework as soon as she got home from school. Choose the time she worked on her homework.

a. 3:00 p.m.   **b.** 300 a.m.

2.MD.C.8 Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using $ and ¢ symbols appropriately.

18. Which of the following combinations is $2.62?

a.

b.

19. Which of the following combinations equals $10?

a.

b.

c. both a and b   **d.** answer not here

MD5

2.MD.D.9 Generate measurement data by measuring lengths of several objects to the unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.

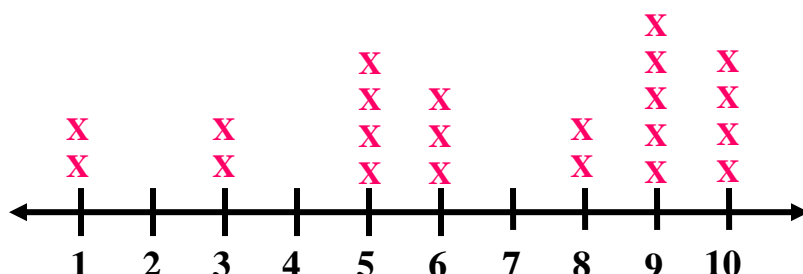**20. Which line plot shows the following measurements?**

- **2 at 1 cm**
- **2 at 3 cm**
- **4 at 5 cm**
- **3 at 6 cm**
- **2 at 8 cm**
- **5 at 9 cm**
- **4 at 10 cm**

a.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

b.

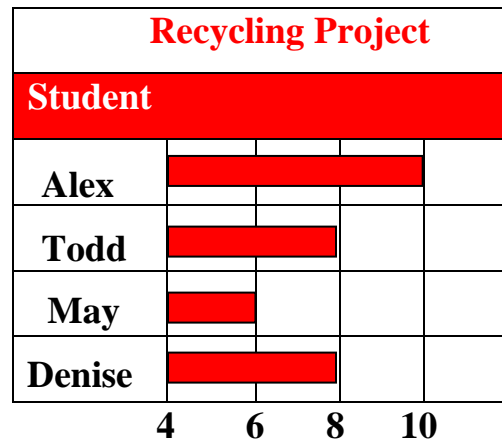| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
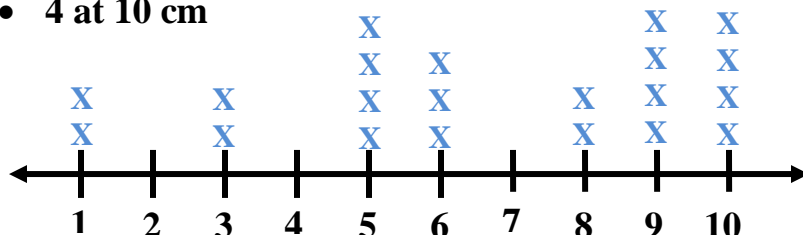
2.MD.D.10 Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph.

20. **The second grade class collected cans for their recycling project. The data represents the cans brought in by four students.**

Recycling Project	
Student	**Number of Cans**
Alex	
Todd	
May	
Denise	

Each 🥫 = 1 can

Recycling Project
Student
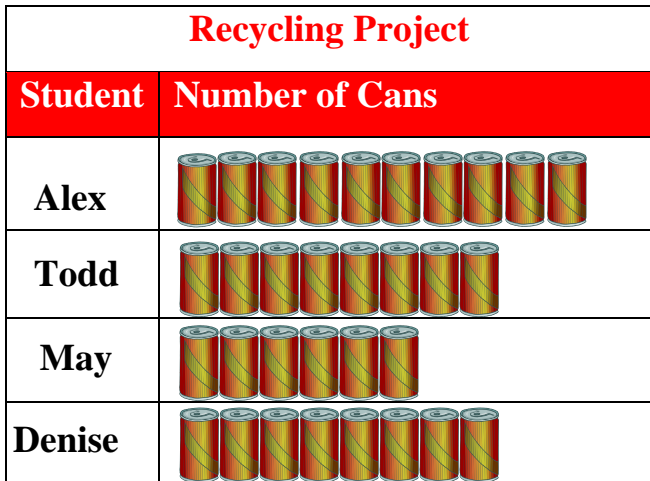
	4	6	8	10
Alex				
Todd				
May				
Denise				

Number of Cans

21. **How many cans were collected in all?**

a. 28   **b.** 32   **c.** 30

22. **Who collected the least number of cans?**

   a. Todd   **b.** May   **c.** Denise

23. **Did the boys or the girls collect the most cans?**

   a. boys   **b.** girls

24. **What is the difference between the number of cans Alex collected and the number of cans Denise collected?**

   a. 2   **b.** 4   **c.** 3

This test is to be read by the teacher.

Answer Key for Second Grade Test
<u>Measurement & Data</u>

Standard	Answer
2.MD.1	1. a
	2. b
	3. a
2.MD.2	4. c
2.MD.3	5. a
	6. b
	7. a
2.MD.4	8. a
	9. c
2.MD.5	10. b
	11. a
2.MD.6	12. a
	13. b
	14. c
2.MD.7	15. b
	16. c
	17. a
2.MD.8	18. b
	19. d
2.MD.9	20. b
2.MD.10	21. b
	22. b
	23. a
	24. a