

## MMLA Mathematics Assessment Items

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Multiple Choice Questions

Select the one best answer for each question.

1. Which is a correct addition pair for 100?
  - A.  $91 + 5$
  - B.  $97 + 4$
  - C.  $92 + 8$
  
2. Which is a correct addition pair for 100?
  - A.  $45 + 55$
  - B.  $30 + 60$
  - C.  $64 + 46$
  
3. Which is NOT a correct addition pair for 100?
  - A.  $98 + 2$
  - B.  $87 + 23$
  - C.  $66 + 34$

4. Find the distance between 31 and 44 on a number line.



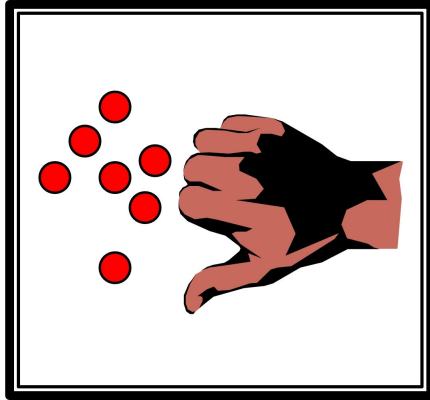
- A. 12  
B. 13  
C. 16
5. How far is it on the number line from 54 to 68?



- A. 13  
B. 14  
C. 15
6. Tamiko wanted 100 trading cards. She had 55 cards. How many more cards did she need?
- A. 35  
B. 45  
C. 155

7. Tamiko wanted 100 trading cards. She had 55 cards. Which number sentence could Tamiko use to help her figure out how many more cards she needs?
- A.  $100 + \underline{\quad} = 55$
  - B.  $55 + \underline{\quad} = 100$
  - C.  $100 + 55 = \underline{\quad}$
8. Find the missing value in this number sentence:  $13 + \underline{\quad} = 68$
- A. 37
  - B. 45
  - C. 55
9. To find the missing value in this number sentence  $29 + \underline{\quad} = 88$ , you should
- A. start with 29 and add 88
  - B. start with 29 and subtract 88
  - C. start with 88 and subtract 29
10. 54 birds were sitting in a tree. Some flew off. Then there were 30 left. How many birds flew off?
- A. 14
  - B. 24
  - C. 30

11. There are 19 marbles in all. How many are under my hand?



- A. 12
- B. 17
- C. 24

12. Farmer Tom had 39 cows in a pasture. During a storm, the fence broke and 13 of the cows wandered off. Which number sentence can be used to find out how many cows stayed in the pasture?

- A.  $39 + 13 =$
- B.  $39 - 13 =$
- C.  $13 + 13 + 13 + 13 =$

13. Mary saved \$5.60 in a week. The next week she saved \$1.20. How much money did she save altogether?

- A. \$4.30
- B. \$5.80
- C. \$6.80

14. Mary saved \$56 in a week. The next week she saved \$12. How much money did she save altogether?
- A. \$43
  - B. \$58
  - C. \$68
15. There were 63 pumpkins in a pumpkin patch. Wanda picked 19 of the pumpkins. How many of the pumpkins were left in the patch?
- A. 82
  - B. 56
  - C. 44
16. The Wildcats scored 63 points in the game. But they only scored 27 points in the first half. How many points did the Wildcats score in the second half?
- A. 26
  - B. 36
  - C. 44
17. At the basketball game, the Wildcats beat the Bears 63 to 56. How many points did both teams score all together?
- A. 103
  - B. 109
  - C. 119

**18.** There were 654 geese on a pond when another flock of 135 geese arrived. How many geese were on the pond then?

A. 789

B. 799

C. 889

**19.** The sum of 587 and 221 is closest to

A. 400

B. 800

C. 900

**20.** The sum of 313 and 406 is closest to

A. 100

B. 700

C. 800

**21.** Estimate the sum of these two numbers:  $164 + 122 =$

A. 200

B. 250

C. 300

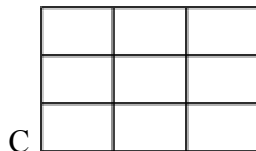
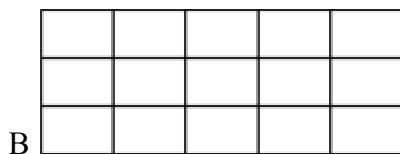
22. It took Jon a month to save \$5.00. How many months will he have to save money to buy a \$25.00 skateboard?

- A. 2
- B. 5
- C. 20

23. Baliee has 12 Yugi-Oh cards. She wants to share them equally with 3 friends. Which number sentence shows this situation? You can make a drawing to help you figure this out, if you want.

- A.  $12 - 3 = 9$
- B.  $12 \div 3 = 9$
- C.  $12 \div 3 = 4$

24. Which of these pictures shows 3 times 5 ( $3 \times 5$ )?



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

25. Elisa arranged her checkers in a pattern shown below.

o o o o o  
o o o o o  
o o o o o  
o o o o o

Which operation best shows how she arranged them?

A.  $4 \times 5$

B.  $4 + 5$

C.  $5 \times 5$

26. Joe got 5 packages of toy cars for his birthday. Each package had 3 cars in it. Which multiplication sentence shows how many cars he got altogether?

A.  $5 \times 3 = 5$

B.  $5 \times 3 = 15$

C.  $5 \times 5 = 15$

27. Karen has 2 bowls of cereal each day. After 5 days, how many bowls of cereal has she eaten? Show this with a drawing and write it out with numbers and symbols, then solve it.

Drawing:

Written with numbers and symbols:

Find the answer:

A. 10

B. 7

C. 3

**28.** Farmer Jill had 3 chickens that laid eggs. Each day they laid 2 eggs each. Which sentence shows how many eggs she got each day.

A.  $3 - 2 = 1$

B.  $3 + 2 = 5$

C.  $3 \times 2 = 6$

**29.** Each pack of gum has five sticks. How many sticks are in three packs of gum?

Draw a picture or use objects to show this situation, then find the answer.

A. 5

B. 8

C. 15

**30.** There are six juice boxes in a pack. How many packs are needed for 18 students?  
Draw a picture or use objects to show this situation.

The answer is:

A. 3

B. 6

C. 18

31. 5 children want to share 10 cookies equally. How many cookies will each child get?

Draw a picture to show this.

Which number expression shows this:

- A.  $10 \times 5$
- B.  $10 - 5$
- C.  $10 \div 5$
32. Tina is having a birthday party. She has invited 20 friends. Each of her tables seats four people. How many tables does she need?
- A. 4
- B. 5
- C. 6
33. A strip of paper is folded twice into equal parts without opening. The fraction name of each of the parts is:
- A.  $\frac{1}{2}$
- B.  $\frac{1}{3}$
- C.  $\frac{1}{4}$

34. A whole pizza had 4 equal pieces. David ate 1 piece. Draw the whole pizza and shade the part David ate.

What fraction of the pizza did David eat?

A.  $\frac{1}{2}$

B.  $\frac{1}{4}$

C.  $\frac{3}{4}$

35. You divide a chocolate bar into 3 equal pieces. You give your friend 1 of these pieces. What fraction of the candy bar did you give to your friend?

A.  $\frac{1}{2}$

B.  $\frac{1}{3}$

C.  $\frac{2}{3}$

36. This picture shows which fraction?



A.  $\frac{2}{2}$

B.  $\frac{2}{4}$

C.  $\frac{4}{4}$

37. Measure line segments I and II to the nearest  $\frac{1}{2}$  cm and tell how much longer segment I is than segment II.

I \_\_\_\_\_

II \_\_\_\_\_

A. 2 cm

B.  $2\frac{1}{2}$  cm

C. 3 cm

D.  $3\frac{1}{2}$  cm

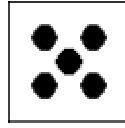
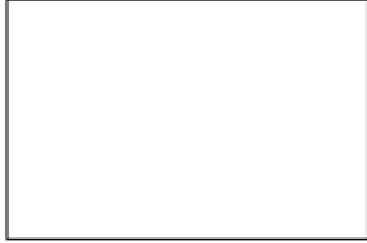
38. Joe's jump rope is 3 feet long. Sally's jump rope is 5 feet long. How much longer is Sally's jump rope?

A. 2 feet

B. 6 feet

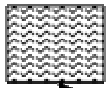
C. 8 feet

39. Tom used crackers to find the area of the rectangle. He laid the crackers on the rectangle. What is the area of the rectangle, in crackers? (You may trace the cracker and make more similar crackers to find the area.)



One cracker

- A. 4 crackers
- B. 5 crackers
- C. 6 crackers
40. How many sheets of paper will be needed to cover the floor area below? (You may trace the sheet of paper and use the tracing to measure.)

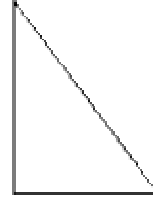


Sheet of paper



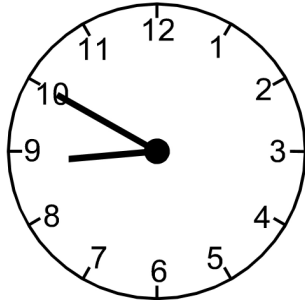
- A. 12 sheets
- B. 14 sheets
- C. 16 sheets

41. Shawn used a triangular chip shaped like the one below to find the area of this rectangle. How many triangles will fit into the rectangle? (You may trace the triangle and use the tracing to measure.)



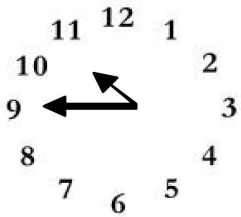
- A. 3 triangles
- B. 6 triangles
- C. 8 triangles
42. The top of a tissue box is 9 inches along one side and 5 inches along the other side. What is the total measurement of its perimeter? (Teachers should provide tissue boxes for students to measure, or provide a piece of paper with a 9 by 5 inch rectangle drawn on it. Or, they could ask students to draw a 9 by 5 inch rectangle, then find the perimeter).
- A. 14 ft.
- B. 28 ft.
- C. 45 ft.
43. A second grade square table measures 3 feet on each of the four sides. What is the measurement of its perimeter?
- A. 6 ft.
- B. 9 ft.
- C. 12 ft.

44. Tell the time indicated on the clock pictured below.



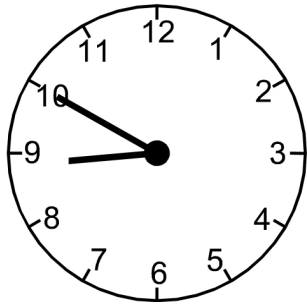
- A. 10 minutes to nine
- B. 10 minute to eight
- C. nine-ten

45. What time is it on this clock?



- A. 11:45
- B. 10:45
- C. 9:10

46. What time will it be half hour after the time shown on the clock?



- A. eight-twenty
- B. nine-ten
- C. nine-twenty
47. School is over at 3:15. It is a half-hour bus ride home. What time will you arrive home from school?
- A. 3:30
- B. 3:45
- C. 4:45
48. My piggy bank has 3 quarters. How much money do I have?
- A. \$ 0.75
- B. \$7.5
- C. \$ 75.

49. What is the total value of this money?

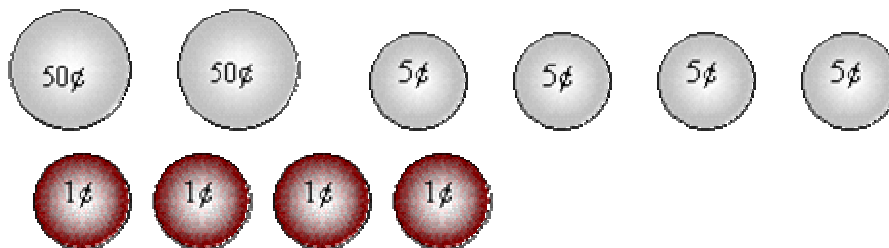


- A. \$1.25
- B. \$3.25
- C. \$32.5

50. Two tables are pushed together to make more room for a big dinner. One table is 5 feet long and the other table is 6 feet long. How long are the two tables together?

- A. 9 feet
- B. 11 feet
- C. 56 feet

51. Mom would like new pink nail polish. It costs \$1.19. She asks you to count the change in her wallet. You find:



You report to mom:

- A. There is not enough money to buy the nail polish.
- B. There is exactly enough money to buy the nail polish.
- C. There is more than enough money to buy the nail polish.

52. Joe draws a shape that has 3 sides and 3 angles. What shape did he draw?

- A. triangle
- B. circle
- C. square

53. What do all squares have?

- A. 4 unequal sides
- B. 4 equal sides
- C. 6 equal sides

54. Joe draws a shape that has 3 sides and 3 corners. What shape did he draw?

- A. square
- B. circle
- C. triangle

55. What shape is this?

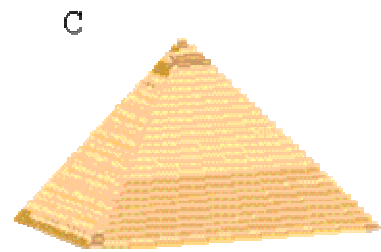
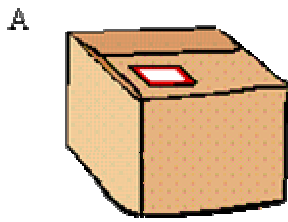


- A. semicircle
- B. sphere
- C. circle

56. Which of the following would have a curved surface?

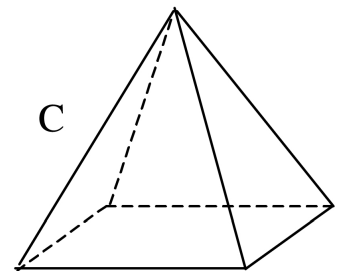
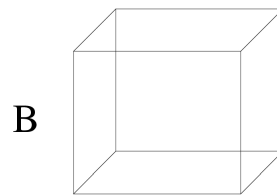
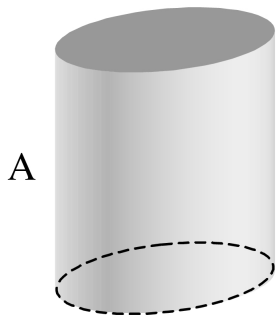
- A. Cardboard box
- B. Soup can
- C. Stop sign

57. Which shape has a curved surface?



- A. a
- B. b
- C. c

58. Which of these has six sides?

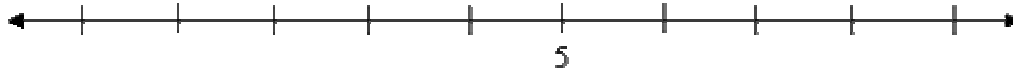


- A. a
- B. b
- C. c

### Open-Ended Questions

Provide your answer in the space provided.

1. This number line shows only the number 5. Write the number 6 where it is supposed to be.



2. What number is 1 LESS than 56?

3. Show how you can make 24 using tens and ones. You can use counters or base ten blocks, or you can make a drawing.

4. Write 5 different number facts that equal 9 such as  $2 + 7$ .

5. Show how you would solve this problem using counters:

Steven had 7 toy cars. He wanted 13. How many more toy cars would Steven need to have 13 altogether?

Then choose two math sentences that could show how to solve this.

A.  $7 + 6 = 13$

B.  $13 - 7 = 6$

C.  $7 + 13 = 20$

D.  $7 - 13 = 6$

6. Solve the following problems without a calculator and without using counters or your fingers.

$4 + 3$  \_\_\_\_\_

$2 + 8$  \_\_\_\_\_

$5 + 3$  \_\_\_\_\_

$7 + 2$  \_\_\_\_\_

$9 + 3$  \_\_\_\_\_

$6 + 6$  \_\_\_\_\_

$7 + 8$  \_\_\_\_\_

$10 + 6$  \_\_\_\_\_

7. Solve the following problems without a calculator and without using counters or your fingers.

$4 - 3$  \_\_\_\_\_

$7 - 4$  \_\_\_\_\_

$9 - 5$  \_\_\_\_\_

$6 - 6$  \_\_\_\_\_

$17 - 8$  \_\_\_\_\_

$12 - 6$  \_\_\_\_\_

8. Add  $3 + 5 + 2$  Write your answer here: \_\_\_\_\_

9. Solve the following problems using number facts and counting strategies.

$15 + 10$  \_\_\_\_\_

$3 + 22$  \_\_\_\_\_

$18 - 12$  \_\_\_\_\_

$20 - 14$  \_\_\_\_\_

$17 + 12$  \_\_\_\_\_

$9 + 13$  \_\_\_\_\_

- 10.** Teacher direction: Ask students to count out various amounts of money using real or play coins and bills, such as 36 cents or \$8. Do not use mixed amounts, such as \$3.45.

**11.** Fill in the numbers to complete each pattern:

- a. 813, 814, 815, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- b. 240, \_\_\_\_\_, 260, 270, \_\_\_\_\_, \_\_\_\_\_
- c. 300, 400, \_\_\_\_\_, \_\_\_\_\_, 700, \_\_\_\_\_

**12.** Write the number sixty-three: \_\_\_\_\_

**13.** Use < or > to show which number is larger.

78 \_\_\_\_\_ 98

250 \_\_\_\_\_ 112

**14.** Fill in the missing number. Show your work.

$$25 + \underline{\quad} = 47$$

**15.** Bill has 25 marbles and his brother Tom has 13 marbles. Draw a picture or use objects to show this.

How many marbles do they have together?

Write this situation in numbers and symbols, to show how many they have altogether.

16. Find the answer and explain your work:  $57 - 28 =$

17. Sam is making 5 apple pies. He uses 4 apples in each pie. How many apples will Sam use altogether? Draw a picture to show this.

Picture:

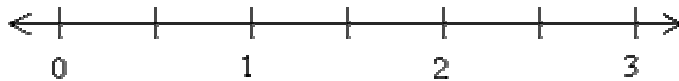
Answer:

18. Maria is going to open a lemonade stand. It takes 5 lemons to make a pitcher of lemonade. How many lemons will she need to make 5 pitchers of lemonade?

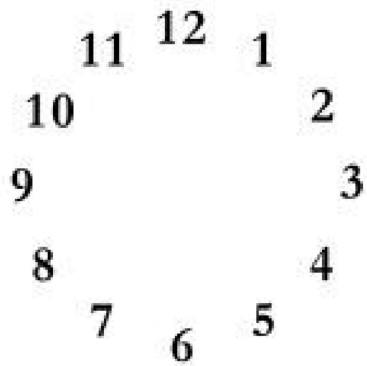
Draw a picture to show how you would solve this problem. Give the answer.

19. Show where this number should go on the number line:

$$1\frac{1}{2}$$



20. Draw hands on this clock face to show 20 minutes after 8



21. My piggy bank has 3 quarters, 3 dimes, 3 nickels, and 7 pennies. Write the amount of quarters, dimes, nickels, and pennies in decimal form.

total money in quarters \$ \_\_\_\_\_

total money in dimes \$ \_\_\_\_\_

total money in nickels \$ \_\_\_\_\_

total money in pennies \$ \_\_\_\_\_

total money altogether \$ \_\_\_\_\_

22. Write fifteen dollars and 65 cents in decimal form.

23. How much money does this picture show?



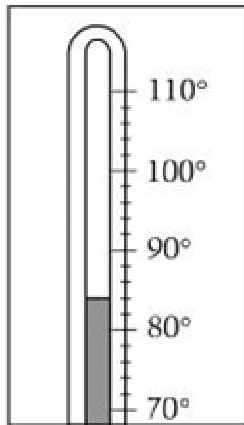
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24. Write the value of this money in decimal form.



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25. What is the temperature shown on the thermometer? Each mark stands for 2 degrees.



\_\_\_\_\_ degrees