

TEST NAME: **Brain Breakfast Spiral Cluster 1-4**
TEST ID: **2759302**
GRADE: **03 - Third Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____
Class: _____
Date: _____

1. Which equation is true?

- A. $60 \times 2 = 62$
- B. $60 \times 2 = 120$
- C. $60 \times 2 = 602$
- D. $60 \times 2 = 1200$

2. Amy counted 3 bags of marbles with 30 marbles in each bag. How many marbles did she count?

- A. 90
- B. 60
- C. 33
- D. 27

3. A restaurant has 7 trays of potatoes. Each tray has 7 rows of 10 potatoes. How many potatoes does the restaurant have?

- A. 24
- B. 49
- C. 170
- D. 490

4. Nellie studied 3 hours a day for 10 days for a test. How many hours did Nellie study altogether?

- A. 40 hours
- B. 30 hours
- C. 20 hours
- D. 13 hours

5. Subtract.

$$955 - 67 - 10$$

- A. 185
- B. 315
- C. 878
- D. 902

6. There were 216 men, 236 women, and 85 children at a concert. How many people were at the concert?

- A. 437
- B. 452
- C. 527
- D. 537

7. Add.

$$14 + 850 + 11$$

- A. 855
- B. 875
- C. 1001
- D. 1100

8. Clara records the number of steps she walks for P.E. class.

- Monday—969 steps
- Tuesday—95 steps less than Monday
- Wednesday—38 steps more than Tuesday

How many steps did Clara walk on Wednesday?

- A. 133
- B. 836
- C. 912
- D. 1102

9. Which is true based on the shaded numbers in the addition table below?

+	1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10	11
2	3	4	5	6	7	8	9	10	11	12
3	4	5	6	7	8	9	10	11	12	13
4	5	6	7	8	9	10	11	12	13	14
5	6	7	8	9	10	11	12	13	14	15
6	7	8	9	10	11	12	13	14	15	16
7	8	9	10	11	12	13	14	15	16	17
8	9	10	11	12	13	14	15	16	17	18
9	10	11	12	13	14	15	16	17	18	19
10	11	12	13	14	15	16	17	18	19	20

- A. even number + odd number = even number
- B. even number + even number = odd number
- C. odd number + odd number = even number
- D. odd number + odd number = odd number

10. What pattern does the shaded column show in the multiplication table below?

×	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

- A. The numbers increase by 1.
- B. The numbers increase by 2.
- C. The numbers increase by 3.
- D. The numbers increase by 4.

11. Based on the addition table below, which is a true statement?

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16
7	7	8	9	10	11	12	13	14	15	16	17
8	8	9	10	11	12	13	14	15	16	17	18
9	9	10	11	12	13	14	15	16	17	18	19
10	10	11	12	13	14	15	16	17	18	19	20

- A. The sum of two even numbers is always odd.
- B. The sum of two even numbers is always even.
- C. The sum of an even number and an odd number is always even.
- D. The sum of an even number and an odd number is odd unless the number is below 50.

12. What pattern is shown by the shaded numbers on the addition table below?

Addition Table

+	0	1	2	3	4	5	6	7	8	9	10
0	0	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10	11
2	2	3	4	5	6	7	8	9	10	11	12
3	3	4	5	6	7	8	9	10	11	12	13
4	4	5	6	7	8	9	10	11	12	13	14
5	5	6	7	8	9	10	11	12	13	14	15
6	6	7	8	9	10	11	12	13	14	15	16
7	7	8	9	10	11	12	13	14	15	16	17
8	8	9	10	11	12	13	14	15	16	17	18
9	9	10	11	12	13	14	15	16	17	18	19
10	10	11	12	13	14	15	16	17	18	19	20

- A. The sum of 2 even numbers is even.
- B. The sum of 2 even numbers is odd.
- C. The sum of 2 odd numbers is even.
- D. The sum of an even and an odd number is even.
13. Nick shares 21 snacks equally among 7 friends. Which expression can be used by Nick to find the number of snacks each friend gets?
- A. $21 \times 3 = 63$
- B. $21 \times 7 = 147$
- C. $21 \div 3 = 7$
- D. $21 \div 7 = 3$

14. Solve the equation $16 = \square \times \square$. What number that goes inside both \square .
- A. 0
 - B. 2
 - C. 4
 - D. 8
15. Which number sentence is related to $4 \times 24 = 96$?
- A. $96 \div 24 = 4$
 - B. $24 \div 4 = 6$
 - C. $96 \times 4 = 384$
 - D. $24 \times 96 = 2,304$
16. Which of the following is equal to 4×1 ?
- A. 2×2
 - B. 2×3
 - C. 3×3
 - D. 3×4
17. What number sentence shows an inverse relationship of $2 \times 10 = 20$?
- A. $10 \div 2 = 5$
 - B. $2 \times 20 = 40$
 - C. $20 \div 10 = 2$
 - D. $20 \times 10 = 200$
18. $36 \div 6 =$
- A. 6
 - B. 30
 - C. 42
 - D. 216

19. What number goes in the box to make the equation below true?

$$\square \times 3 = 12$$

- A. 4
- B. 9
- C. 15
- D. 36

20. What number sentence shows an inverse relationship of $7 \times 6 = 42$?

- A. $42 + 7 = \square$
- B. $42 - 7 = \square$
- C. $42 \times 7 = \square$
- D. $42 \div 7 = \square$

21. Sarah was working on a math worksheet. Which could be used to help her solve 6×12 ?

- A. $(6 \times 10) + (6 \times 2)$
- B. $(6 + 10) + (6 + 2)$
- C. $(6 + 10) \times (6 + 2)$
- D. $(6 \times 10) \times (6 \times 2)$

22. Which expression is equal to 6×4 ?

- A. $(3 \times 4) + (3 \times 1)$
- B. $6 \times (3 \times 1)$
- C. $(3 \times 4) + (3 \times 4)$
- D. $(3 \times 3) \times 4$

23. This is one way to find the product of $2 \times 5 \times 4$.

- First, switch the 5 and the 4.
- Multiply 2×4 .
- Last, multiply 8 by 5.

How can you get the same product without switching the 5 and the 4?

- A. It cannot be done because the product of 2×4 is less than the product of 2×5 , so the answer will be smaller.
- B. It cannot be done because switching the numbers will give a different answer.
- C. Multiply 2×5 and 2×4 . Then add these together.
- D. The order in which the three numbers are multiplied does not matter.
24. Andy is planning a party for 27 people. He wants to get 3 large tables and have 9 people sit at each table. What is another way he could seat the people at the party?
- A. 3 tables with 3 people at each table
- B. 4 tables with 7 people at each table
- C. 9 tables with 3 people at each table
- D. 10 tables with 17 people at each table

25. At recess the children lined up in groups of three. Brianna thought the lines could be represented by the expression:

$$3 \times 6$$

What is another way this expression could be written?

- A. $3 + 3$
- B. $3 + 6$
- C. $3 + 3 + 3$
- D. $6 + 6 + 6$

26. Which set of equations shows a way to solve 4×7 ?

A. $4 \times 5 = 20$
 $4 \times 2 = 8$
 $20 + 8 = ?$

B. $2 \times 2 = 4$
 $2 \times 5 = 10$
 $4 + 10 = ?$

C. $2 + 7 = 9$
 $2 + 7 = 9$
 $9 \times 9 = ?$

D. $4 + 5 = 9$
 $4 + 2 = 6$
 $9 \times 6 = ?$

27. What is the missing value in the equation below?

$$2 \times 5 \times 4 = ? \times 5 \times 2$$

A. 10

B. 8

C. 6

D. 4

28. Javier needed to solve 8×6 . How could he rewrite his problem to solve it?

A. $(4 \times 6) + (4 \times 6)$

B. $(8 + 6) \times (8 + 6)$

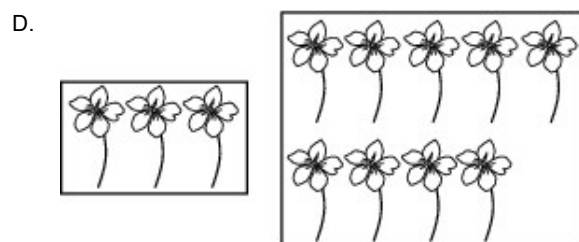
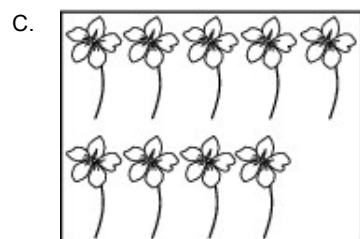
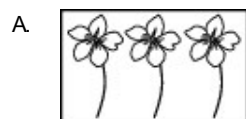
C. $8 \times (3 \times 3)$

D. $6 \times (4 \times 4)$

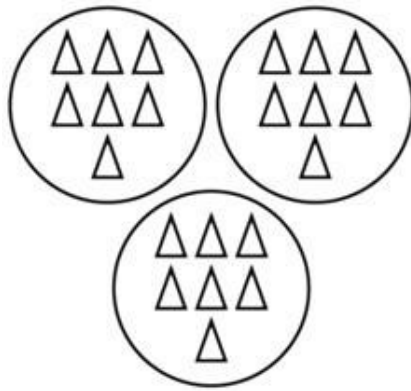
29. There are 8 balls and 4 boxes. Which expression shows how to find the number of balls that should go into each box?

- A. $4 \div 8$
- B. $8 \div 4$
- C. $12 \div 4$
- D. $4 \div 12$

30. Shawn used the expression $9 \div 3$ to show how he arranged his flowers. Which picture shows a way that Shawn could correctly arrange his flowers?



31. Which equation matches the illustration?



- A. $21 - 14 = 7$
- B. $21 + 7 = 28$
- C. $21 \div 3 = 7$
- D. $21 - 7 = 14$

32. Gwen has 4 blocks and Kay has twice as many blocks as Gwen. Which model represents the total number of blocks the girls have?

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

33. A total of 54 rock climbers signed up for a rock climbing trip. The leader put the climbers into 6 equal groups. How many climbers were in each group?
- A. 6
 - B. 9
 - C. 48
 - D. 60

34. What is the value of S in the equation below?

$$S \div 7 = 7$$

- A. 1
- B. 7
- C. 14
- D. 49

35. What is the value of z in the equation below?

$$z \div 6 = 6$$

- A. 0
- B. 1
- C. 12
- D. 36

36. **Ronnie arranged 24 stickers in a rectangular array with 6 columns. How many rows are in the array?**
- A. 3 rows
 - B. 4 rows
 - C. 6 rows
 - D. 12 rows

37. **Mrs. Ursek is giving markers to 7 children. If she gives each child 6 markers, how many markers will Mrs. Ursek need?**
- A. 1
 - B. 13
 - C. 36
 - D. 42
38. **Ms. Walker brought a box of 24 apples to her office. By noon, 8 of the apples had been eaten. By the end of the day, another 11 apples had been eaten. How many apples were left at the end of the day?**
- A. 5
 - B. 8
 - C. 13
 - D. 16
39. Lory has 56 marbles. She gets 15 marbles for her birthday. Lory then gives 22 marbles away. How many marbles does Lory have left?
- A. 34
 - B. 49
 - C. 63
 - D. 71
40. Vicky planted a flower garden. She planted 2 rows of daisies and 3 rows of tulips. Each row has 5 flowers in it. What is the total number of flowers in Vicky's garden?
- A. 10 flowers
 - B. 20 flowers
 - C. 25 flowers
 - D. 30 flowers

41. **Sasha has 15 trading cards. Ramon has 4 less trading cards than Monique. Monique has twice as many trading cards as Sasha. Which shows the number of trading cards that each person has?**
- A. Sasha 15, Ramon 19, Monique 30
 - B. Sasha 15, Ramon 11, Monique 8
 - C. Sasha 15, Ramon 26, Monique 8
 - D. Sasha 15, Ramon 26, Monique 30
42. **Darann had 19 colored pencils in her pencil case. Yesterday she gave away 5 pencils. Today she gave away 3 pencils. How many pencils does she have left in her pencil case?**
- A. 10
 - B. 11
 - C. 12
 - D. 14
43. **The chart below shows the number of ice cream cones sold in one week. There were a total of 400 ice cream cones sold.**

Day	Ice Cream Cones Sold
Monday	103
Tuesday	87
Wednesday	56
Thursday	92
Friday	?

How many ice cream cones were sold on Friday?

- A. 62
- B. 72
- C. 238
- D. 338

44. Allie's horse, Scout, runs 3 miles every day. On one of the days, Scout runs an additional 2 miles. Which equation is used to find how many days, d , it will take Scout to run 20 miles?
- A. $3 \times d + 2 = 20$
- B. $3 - d + 2 = 20$
- C. $3 + d - 2 = 20$
- D. $3 \div d - 2 = 20$
45. Jose bought 2 tubs of ice cream for \$3 each. He also bought a bottle of chocolate syrup for \$2. Which equation represents how much money, M , Jose will spend?
- A. $M = 2 + 3 + 2$
- B. $M = (2 \times 3) + 2$
- C. $M = 2 \times 3 \times 2$
- D. $M = (2 + 3) \times 2$
46. **Marcia used the multiplication fact 9×7 to solve a division problem. Which equation could be the one Marcia solved?**
- A. $9 \div 7 = \square$
- B. $7 \div 9 = \square$
- C. $72 \div 9 = \square$
- D. $63 \div 7 = \square$
47. Mackenzie has 56 oranges to sort into baskets. She wants to put 8 oranges into each basket. Which equation can be used to determine the number of baskets she needs?
- A. $\square \div 8 = 56$
- B. $8 + \square = 56$
- C. $8 \times \square = 56$
- D. $56 - 8 = \square$

48. Which multiplication fact could you use to find the quotient for $90 \div 10$?

- A. 10×10
- B. 9×10
- C. 8×11
- D. 3×30

49. Which equation could be used to solve $63 \div 9 = 7$?

- A. $9 + 7 = \square$
- B. $7 \times 9 = \square$
- C. $63 - 7 = \square$
- D. $63 \times 7 = \square$

50. **Mr. Owens had 72 chairs to place into rows. He put 9 chairs in each row. Which number sentence could Mr. Owens use to help him find the total number of rows he could make?**

- A. $9 + 8 = 17$
- B. $17 - 8 = 9$
- C. $9 \times 8 = 72$
- D. $8 \div 72 = 9$