



Mathematics Grade 3

Wall Mathematics, 3 Unit_18

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WAKE COUNTY SCHOOLS

2013 - 2014

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1. Jeanette was shopping for gifts for her friends. She had \$70 and decided she was only going to buy books as gifts.

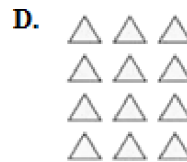
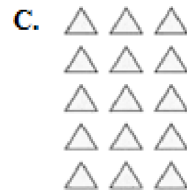
Item	Price
CD	\$12
Book	\$8
Calendar	\$6

What is the most number of books Jeanette can purchase with \$72?

- A. 9 books
- B. 8 books
- C. 7 books
- D. 6 books
2. Albert bought 4 boxes of pies from a bakery. Each box had the same number of pies. If he bought a total of 12 pies, how many pies in each box?
- A. 3
- B. 8
- C. 16
- D. 48

3. Ryland baked a tray of triangle shaped cookies that he would be able to divide evenly among his 6 friends and have no cookies left over.

Which tray of triangle-shaped cookies could Ryland have baked?



4. Mindy wrote this math sentence on the board.

$$56 \div 8 = 7$$

Which story matches Mindy's math sentence?

- A. 56 stickers were put into 8 groups with 7 stickers in each group.
- B. 56 dogs were given 8 pounds of dog food to eat for 7 days.
- C. 56 students were given 7 math questions and 8 science questions to answer.
- D. 56 flowers were planted in rows to 7 inches deep and 8 inches apart in a garden.
5. Melody bought 6 student tickets for a concert for \$54. How much did each student concert ticket cost?
- A. \$8
- B. \$9
- C. \$10
- D. \$11
6. Which strategy should be used to solve the number sentence $8 \div 2 = n$?
- A. 2×8
- B. $8 + 8$
- C. $8 - 2 - 2 - 2 - 2$
- D. $2 + 2 + 2 + 2 + 2 + 2 + 2 + 2$

7. Rich has 92 baseball cards. He wants to organize them into 4 groups. Which operation should Rich use to find the answer?

- A. addition
- B. subtraction
- C. multiplication
- D. division

8. There are 6 children in Mr. Polk's youth group. How many cookies should Mr. Polk buy if he wants to give each of the children the same number of cookies with none left over?

- A. 24 cookies
- B. 32 cookies
- C. 39 cookies
- D. 45 cookies

9. The diagram shows how Raymond shared cupcakes among 3 friends.



Which explains how Raymond shared the cupcakes?

- A. started with 18 cupcakes and gave 3 cupcakes to each friend
- B. started with 18 cupcakes and gave 6 cupcakes to each friend
- C. started with 18 cupcakes and gave 3 cupcakes to each friend 6 times
- D. started with 18 cupcakes and gave 6 cupcakes to each friend 3 times
10. Jack had 25 barely used toys he wanted to donate equally to 3 charities. How many toys would each charity receive?

- A. 6
- B. 7
- C. 8
- D. 9

11. Which is true?

- A. $3 \div 3 < 9 \div 9$
- B. $5 \div 5 > 0 \div 3$
- C. $6 \div 1 < 6 \div 6$
- D. $0 \div 4 > 0 \div 4$

12. Which is true?

- A. $2 \div 2 < 7 \div 7$
- B. $8 \div 8 > 0 \div 2$
- C. $9 \div 1 < 8 \div 8$
- D. $0 \div 4 > 0 \div 4$

13. Ms. Walker has a package of 21 trading cards. She plans to give the same number of cards to each of the four children she baby-sits. She used the work below to compute how many cards she can give each child.

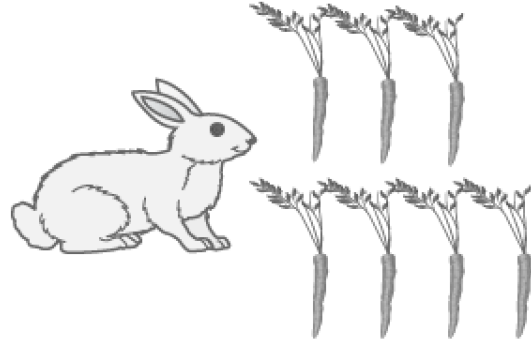
$$\begin{array}{r} 5 \\ 4 \overline{)21} \\ \underline{20} \\ 1 \end{array}$$

What does the 1 represent?

- A. the greatest number of cards she can give each child
- B. the number of additional cards she needs in order to give each child five cards
- C. the number of cards she will have left over if she gives each child five cards
- D. the number of cards she should give each child in order to have five cards remaining
14. Becky used 2 cups of flour to make 39 cookies. *About* how many cookies would she be able to make if Becky used 8 cups of flour?

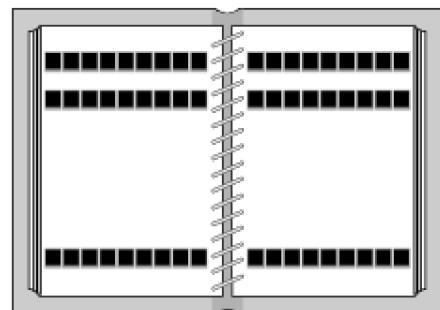
- A. 320
- B. 160
- C. 10
- D. 5

15. Andy's pet store received a basket of 56 carrots from the local farm.



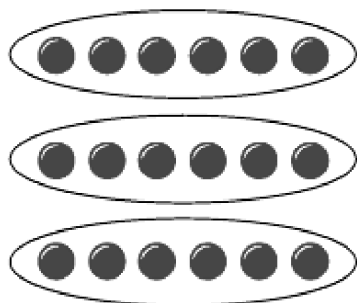
How many rabbits can Andy feed that day if each rabbit eats 7 carrots a day?

- A. 6
- B. 7
- C. 8
- D. 9
16. Raul has 72 stamps to add to a book. He has enough stamps to fill all the pockets on one page. There are 9 pockets in each row. How many rows are there on one page?



- A. 12 rows
- B. 9 rows
- C. 8 rows
- D. 6 rows

17. The model represents the 18 pieces of candy Cheryl has. She wanted to divide the candy evenly among 3 of her friends.



Which pair of equations *best* represent the model which shows how Cheryl divided the candy among her 3 friends?

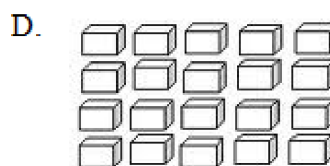
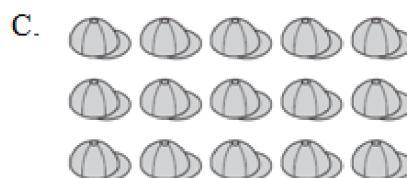
- A. $6 \times 3 = 18$ and $18 \div 6 = 3$
 B. $3 \times 6 = 18$ and $18 \div 3 = 6$
 C. $6 \times 3 = 18$ and $18 \div 3 = 6$
 D. $3 \times 6 = 18$ and $18 \div 6 = 3$
18. Ms. Bracey divides her Chorus Club into 4 lines with 8 students in each line.

Which equation could you use to determine how many students were in Ms. Bracey's Chorus Club?

- A. $\square - 4 = 8$
 B. $\square \times 4 = 8$
 C. $\square \div 4 = 8$
 D. $\square + 4 = 8$

19. Tara made an array with objects to represent 3×6 .

Which model did Tara make?



20. There are some students in the gym getting ready to participate in a relay race. The teacher divides the students into 12 teams with 8 students in each line.

Which equation represents the teams and students in the relay race?

- A. $\square \div 12 = 8$
 B. $\square \times 12 = 8$
 C. $\square + 12 = 8$
 D. $\square - 12 = 8$

21. Evan wanted to bake 24 star-shaped cookies for refreshments for his Math Club meeting. He arranged the cookies to bake as shown on the cookie sheet.



Which array do the cookies on the cookie sheet represent?

- A. 3×8
B. 4×6
C. 6×5
D. 8×4
22. Sandra sold 54 magazine subscriptions in 6 days for her school fundraiser. She sold the same number of subscriptions each of the 6 days.

Which equation represents the number of magazine subscriptions Sandra sold each day?

- A. $s \div 6 = 54$
B. $s \times 6 = 54$
C. $s - 6 = 54$
D. $s + 6 = 54$

23. A pack of bubble gum contains 8 pieces. If Jamie has 32 pieces of bubble gum, how many packs were purchased?

- A. 4
B. 8
C. 24
D. 32





24. Sabrina bought 8 packs of bottled water for a family cookout. There are 12 bottles of water in a pack.

How many bottles of water did Sabrina buy?

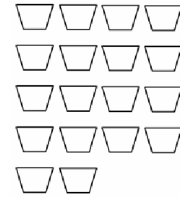
- A. 96 bottles
B. 84 bottles
C. 72 bottles
D. 60 bottles

25. Elizabeth wanted to bake 36 cookies so she could give everyone in her class two for snack time tomorrow. Elizabeth figured out she could display her cookies 4 different ways on the cookie sheet before she put them in the oven.

Which cookie sheet models the array $6 \times 6 = 36$?

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

26. Tamika is inviting all 9 members of the Science Club to her house on Friday. She has the flower pots shown in the diagram and wants to give each member the same number of flower pots.



Which expression should Tamika use to determine how many flower pots each member should receive so that all the members have an equal number of the pots with none left over?

- A. $18 \div 2$
- B. $18 \div 9$
- C. $9 \div 3$
- D. $9 \div 2$

27. A teacher asked four students to determine the unknown number in the number sentence shown below.

$$13 = ? \div 6$$

Their responses are listed below:

Austin: 7

Stephen: 19

Bradley: 60

Albert: 78

Who answered correctly ?

- A. Austin
- B. Albert
- C. Bradley
- D. Stephen

28. Mike walks 5 miles every morning. The missing number in the number sentence below gives the number of days he will take to walk 35 miles.

$$35 \div ? = 5$$

How many days will he take to walk 35 miles?

- A. 6
- B. 7
- C. 30
- D. 40

29. If Ms. Albert arranges her 30 classroom desks into equal rows of 6 desks, how many rows will she have?

- A. 5 rows
- B. 10 rows
- C. 24 rows
- D. 36 rows

30. Curtis must make this number sentence true.

$$72 \div \square = 3$$

Which number should Curtis put in the box to complete the number sentence?

- A. 3
- B. 4
- C. 6
- D. 24

31. Which equation can be used to find the value of y ?

$$63 \div y = 9$$

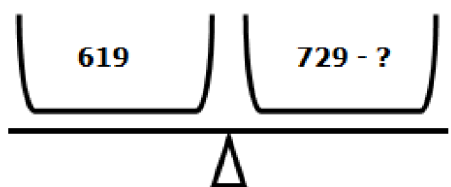
- A. $9 + y = 63$
- B. $63 - y = 9$
- C. $9 \times y = 63$
- D. $y \div 63 = 9$

32. Cynthia baked 72 cookies, and she wants to share them equally among 9 of her friends.

How many cookies will each friend receive?

- A. $3 \times 9 = ?$
- B. $27 \div 3 = ?$
- C. $9 \times 8 = ?$
- D. $72 \div 9 = ?$

33. A balance must have equal amounts on both sides. Look carefully at the balance.



What number is missing from the right side that will make both sides equal?

- A. 110
- B. 100
- C. 85
- D. 80

34. What is the missing number?

$$8 \times \underline{\quad} = 56$$

- A. 5
- B. 6
- C. 7
- D. 8

35. Which number is missing?

$$7 \times \underline{\quad} = 42$$

- A. 5
- B. 6
- C. 7
- D. 8

36. What is the value of the triangle?

$$\triangle \div 11 = 9$$

- A. 90
- B. 91
- C. 97
- D. 99

37. What is the value of the triangle?

$$12 \times 5 = \triangle$$

- A. 250
- B. 125
- C. 60
- D. 27

38. What is another way to write the expression $(3 \times 6) \times 2$?

- A. 12×2
- B. 18×3
- C. $(2 \times 6) \times 6$
- D. $(3 \times 2) \times 6$

39. Which of these has the same result as $3 \times 4 \times 2$?

- A. 12×3
- B. 8×3
- C. 6×2
- D. 3×2

40. In the expression $7 \times (7 + 8) \div 4 + 9$, what is the first computation that should be completed?

- A. $4 + 9$
- B. $7 + 8$
- C. $8 \div 4$
- D. 7×7

41. Kevin solved the multiplication problem 8×7 by breaking the numbers apart on his whiteboard.

Which whiteboard correctly shows how to break the numbers apart?

A.

8×7
$8 \times 5 = 40$
$8 \times 2 = 16$
$40 + 16 = 56$

B.

8×7
$8 + 7 = 15$
$8 + 7 = 15$
$15 + 15 = 30$

C.

8×7
$8 + 8 = 16$
$7 + 7 = 14$
$16 + 14 = 30$

D.

8×7
$5 \times 8 = 40$
$3 \times 7 = 21$
$40 + 21 = 61$

42. Which statement is true?

- A. $9 \div 3 = 3 \div 9$
- B. $1 \times 9 = 9 \times 0$
- C. $2 \times 3 \times 5 = 5 \times 5$
- D. $5 \times 2 \times 3 = 10 \times 3$

43. Jeanette wanted to plant flowers in her flower pots. She is planning to put 2 flowers in each flower pot.



Which equation should Jeanette use to help her know how many flowers she is planting?

- A. $(4 \times 3) + 2$
 B. $4 + 3 + 2$
 C. $(4 + 3) \times 2$
 D. $4 \times 3 \times 2$
44. Anna learned about the Order of Operations. She practiced using this problem.

$$8 \times (9 - 2) - 7$$

What is the solution to this problem?

45. Avery must make both sides of this number sentence true.

$$36 + 12 = \square + 8$$

Which number should go in the box to complete the number sentence?

- A. 34
 B. 38
 C. 40
 D. 42
46. What number would you use to complete the equation?

$$2 \times (3 \times 4) = (2 \times \underline{\quad}) \times 3$$

- A. 6
 B. 4
 C. 3
 D. 2
47. What value will complete the equation?

$$35 - \square = 3 \times 8$$

- A. 11
 B. 24
 C. 32
 D. 59

48. Brian wrote the number sentence $7 \times 6 = 42$. Which of these is related to the one Brian wrote?

A. $7 - 6 = 1$
B. $42 \div 6 = 7$
C. $7 + 6 = 13$
D. $42 \times 6 = 252$

49. Ellen knows that $3 \times 7 = 21$. If she has 21 cookies and wants to divide them among 3 of her friends, which equation will help her determine how many cookies each friend receives?

A. 7×3
B. $21 \div 7$
C. $21 \div 3$
D. $7 + 3$

50. A baker can fit 6 muffins in a gift box. What number sentence can be used to find the number of boxes he would need for 54 muffins?

A. $6 \times ? = 54$
B. $6 \times 54 = ?$
C. $54 \times ? = 6$
D. $? \times 54 = 6$

51. Nancy bought 8 amusement park tickets for \$82.

About how much did each ticket cost?

A. \$8
B. \$9
C. \$10
D. \$11

52. Lewis knows he can solve division problems by using subtraction. He subtracted 9 from 54 until he reached 0 to solve a division problem.

Which division problem did Lewis solve?

A. $12 \div 6 = 9$
B. $12 \div 9 = 6$
C. $54 \div 6 = 9$
D. $54 \div 9 = 6$

53. What expression is equivalent to 14×7 ?

A. $14 \times 5 + 2$
B. $14 \times 5 \times 2$
C. $14 \times 5 + 14 \times 2$
D. $14 \times 5 \times 14 \times 2$

54. Which numerical expression is *correct*?

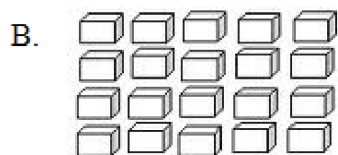
- A. $84 \div 4 = 21$
- B. $4 \div 84 = 21$
- C. $84 \div 4 = 24$
- D. $4 \div 84 = 24$

55. Mike wants to cut an 18 meter long piece of cloth into 6 equal parts. What will be the length of each piece of cloth in meters?

- A. $\frac{1}{3}$
- B. $\frac{1}{2}$
- C. 2
- D. 3

56. Ken drew an array to represent 4×5 .

Which model did Ken draw?



57. Which division fact can be written for $9 \times 8 = 72$?

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

58. Jack has 32 candies. He wants to divide these candies equally among his 4 friends. How many candies will each friend get?

- A. $\frac{1}{8}$
- B. $\frac{1}{7}$
- C. 7
- D. 8

59. Which number sentence is true?

- A. $56 \div 8 = 7$
- B. $7 \div 56 = 8$
- C. $54 \div 8 = 7$
- D. $7 \div 8 = 56$

60. If movie tickets cost \$6 for adults and \$4 for children, what would it cost a family of two adults and two children to see a movie?

A. \$10
 B. \$12
 C. \$20
 D. \$24

61. Brianna's class is trying to raise \$1,000 to help support a local food bank. During the school's fall festival, they raised \$247 at a bake sale and \$430 at a dunking booth.

How much money do they still need to raise?

A. \$323
 B. \$570
 C. \$747
 D. \$753

62. Mr. Brown walks 3 miles each day. His goal is to walk 30 miles. Which equation will help Mr. Brown see how many more miles he needs to walk after 6 days of walking to meet his goal?

A. $3 \times 6 + m = 30$
 B. $3 \times m + 6 = 30$
 C. $m \times 6 + 3 = 30$
 D. $3 \times 6 + 30 = m$

63. Mrs. Chang has 17 tomato seeds that she wants to plant in rows. She plants them in such a way that some rows have 2 seeds while others have only 1 seed. The table below shows different arrangements for planting the seeds.

Arrangement	Rows with	
	2 Plants	1 Plant
I	2	13
II	3	12
III	5	7
IV	7	4

Which arrangement/s could Mrs. Chang have used to plant all 17 seeds?

A. I only
 B. I & III only
 C. II & III only
 D. I, II, III & IV

64. Joe had 4 packs of chewing gum. Each pack had 8 sticks. He shared the chewing gum with his friends. At the end of the day, he had 10 sticks left. How many sticks of chewing gum did Joe and his friends use?

A. 2
 B. 10
 C. 22
 D. 32

65. Study this relationship.

$$**** = \heartsuit \heartsuit \heartsuit$$

If $*$ = 3, how much is \heartsuit worth?

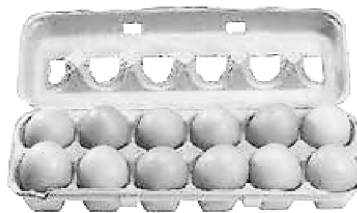
- A. 4
- B. 6
- C. 8
- D. 12

66. Timothy bought 4 packs of hotdogs for a class picnic. Each pack had 8 hotdogs in it. Maria brought 30 buns to the picnic for the hotdogs.

Which statement is true about the number of hotdogs and buns?

- A. There are the same number of buns as hotdogs.
- B. There are 2 more buns than hotdogs.
- C. There are 2 more hotdogs than buns.
- D. There are 6 more hotdogs than buns.

67. Sarah bought one dozen eggs to make omelets for breakfast the next morning. She used 2 eggs to make each omelet.



If 4 eggs remained in the carton after she finished making breakfast, how many omelets did Sarah make?

- A. 2 omelets
- B. 4 omelets
- C. 6 omelets
- D. 8 omelets

68. Jerome bought a tennis racket, basketball goal, and a football helmet at the sporting goods store.



Jerome had \$1000 in his wallet. *About* how much money did Jerome have left over after he purchased the items at the sporting goods store?

- A. \$400
B. \$500
C. \$600
D. \$700
69. What is the value of x ?

$$34 + x = 62$$

- A. 18
B. 28
C. 38
D. 96

70. Darius has scored 90 points this season in basketball. He has played 10 games.

Which equation represents the number of points Darius scored per game?

- A. $10 \div p = 90$
B. $10 \times p = 90$
C. $10 - p = 90$
D. $10 + p = 90$

71. At 7:00 am, the temperature is 44°F . The temperature rises 4°F every hour until 3:00 pm. Then it decreases 2°F every hour until 6:00 pm. What is the temperature at 6:00 pm?

- A. 68°F
B. 69°F
C. 70°F
D. 71°F

72. What number replaces the triangle to make a true statement?

$$30 - \Delta = 21$$

- A. 7
B. 8
C. 9
D. 11

73. Allison had 100 books on her shelf. She wanted to get rid of at least half, so that she could buy new ones. Which two operations are mentioned in this problem?

- A. addition and multiplication
- B. subtraction and division
- C. addition and division
- D. subtraction and multiplication

74. What is the missing number?

$$287 + ? = 324$$

- A. 37
- B. 163
- C. 100
- D. 611

75. What is the value of the circle?

$$976 + \bigcirc = 1764$$

- A. 782
- B. 788
- C. 789
- D. 798

76. Steve drew a chart as shown.

5	10	15	20
7	12	17	22
9	14	19	24
11	16	21	26
13	18	23	28

What pattern is described by each row and column of the chart he drew?

- A. Each number in a row increases by 5 and in a column increases by 2.
- B. Each number in a row and column is 5 times the previous number.
- C. Each number in a row and column is 2 times the previous number.
- D. Each number in a row increases by 2 and in a column increases by 5.

77. What is the missing value in the pattern shown below?

3, 6, ?, 24, 48, 96

- A. 9
- B. 12
- C. 18
- D. 21

78. Find the missing number.

42, 35, 28, ?, 14

- A. 21
- B. 14
- C. 7
- D. 5

79. What is the missing number in this sequence?

4, 16, ?, 40, 52, 64, 76

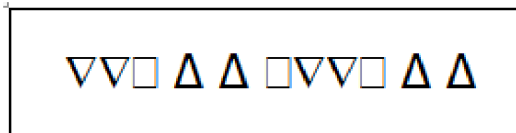
- A. 32
- B. 28
- C. 24
- D. 20

80. Which of these *best* explains the rule for the pattern shown below?

Odd number, even number, odd number, even number...

- A. Add an even number to each number. The sum of two even numbers is odd; the sum of an odd number and an even number is even.
- B. Add an odd number to each number. The sum of an odd number and an even number is odd; the sum of two odd numbers is even.
- C. Add an odd number to each number. The sum of two even numbers is odd; the sum of an odd number and an even number is even.
- D. Add an even number to each number. The sum of an odd number and an even number is odd; the sum of two even numbers is odd.

81. Raj used a rule to make this pattern of shapes.



Which pattern has the same rule?

- A. ⊗⊗Ω↑↑Ω⊗⊗Ω↑↑
- B. ⊗⊗ΩΩ↑⊗⊗ΩΩ↑
- C. ⊗ΩΩ↑↑⊗ΩΩ↑↑
- D. ⊗Ω↑⊗Ω↑⊗Ω↑⊗Ω

86. Katrina was asked by her teacher to study the pattern and determine the two missing numbers. She *correctly* determined the two missing numbers.

80, 40, ____, 10, ____

What are the two missing numbers?

- A. 20, 0
- B. 25, 0
- C. 20, 5
- D. 30, 5

87. Nicholas began completing the chart by filling in numbers.

1 st addend	2 nd addend	sum
0	15	15
2	13	15
4	11	15
6	9	15
8	7	15

If the first addend is a 12 in the chart, what will be the value of the second addend?

- A. 3
- B. 4
- C. 5
- D. 6

88. Sam walks 2 miles every morning. The table below shows the total distance he walked in the first five days.

Day	Total Distance Walked (in miles)
1	2
2	4
3	6
4	8
5	?

What is the missing number in the table?

- A. 10
- B. 7
- C. 5
- D. 2

89. A rule was used to complete this number pattern.

435, 441, 447, 453, 459, ____

If the rule continues, what will be the next number in the pattern?

- A. 461
- B. 465
- C. 466
- D. 467

90. Which numbers are missing from the chart?

600		602	603	604	605	606	607	608	609
610	611		613	614	615	616	617	618	619
620	621	622		624	625	626	627	628	629
630	631	632	633		635	636	637	638	639
640	641	642	643	644		646	647	648	649
650	651	652	653	654	655		657	658	659
660	661	662	663	664	665	666		668	669
670	671	672	673	674	675	676	677		679
680	681	682	683	684	685	686	687	688	
690	691	692	693	694	695	696	697	698	699

Number Chart (600 to 699)

- A. 601, 612, 633, 634, 635, 636, 637, 638, 639
- B. 601, 612, 623, 644, 636, 657, 676, 689, 687
- C. 601, 612, 623, 634, 645, 656, 667, 678, 689
- D. 601, 612, 623, 644, 645, 657, 676, 687, 689

91. Look at this pattern of numbers.

75, 71, 67, 63, _____

What will be the next number, if the pattern continues in the same way?

- A. 61
- B. 59
- C. 57
- D. 55

#	Answer	Objective	#	Answer	Objective
1.	A	Obj : 3.OA.2. Interpret whole-number quotients of who...	42.	D	Obj : 3.OA.5. Apply properties of operations as strat...
2.	A	Obj : 3.OA.2. Interpret whole-number quotients of who...	43.	D	Obj : 3.OA.5. Apply properties of operations as strat...
3.	D	Obj : 3.OA.2. Interpret whole-number quotients of who...	44.	B	Obj : 3.OA.5. Apply properties of operations as strat...
4.	A	Obj : 3.OA.2. Interpret whole-number quotients of who...	45.	C	Obj : 3.OA.5. Apply properties of operations as strat...
5.	B	Obj : 3.OA.2. Interpret whole-number quotients of who...	46.	B	Obj : 3.OA.5. Apply properties of operations as strat...
6.	C	Obj : 3.OA.2. Interpret whole-number quotients of who... Obj : 3.OA.6. Understand division as an unknown-facto...	47.	A	Obj : 3.OA.5. Apply properties of operations as strat... Obj : 3.OA.8. Solve two-step word problems using the ...
7.	D	Obj : 3.OA.2. Interpret whole-number quotients of who... Obj : 3.OA.6. Understand division as an unknown-facto...	48.	A	Obj : 3.OA.6. Understand division as an unknown-facto...
8.	A	Obj : 3.OA.1. Interpret products of whole numbers, e... Obj : 3.OA.2. Interpret whole-number quotients of who...	49.	C	Obj : 3.OA.6. Understand division as an unknown-facto...
9.	B	Obj : 3.OA.2. Interpret whole-number quotients of who...	50.	A	Obj : 3.OA.6. Understand division as an unknown-facto...
10.	C	Obj : 3.OA.2. Interpret whole-number quotients of who...	51.	C	Obj : 3.OA.6. Understand division as an unknown-facto...
11.	B	Obj : 3.OA.2. Interpret whole-number quotients of who...	52.	D	Obj : 3.OA.6. Understand division as an unknown-facto...
12.	B	Obj : 3.OA.2. Interpret whole-number quotients of who...	53.	C	Obj : 3.OA.7. Fluently multiply and divide within 100...
13.	C	Obj : 3.OA.2. Interpret whole-number quotients of who...	54.	A	Obj : 3.OA.7. Fluently multiply and divide within 100...
14.	B	Obj : 3.NBT.1. Use place value understanding to round ... Obj : 3.OA.2. Interpret whole-number quotients of who...	55.	D	Obj : 3.OA.7. Fluently multiply and divide within 100...
15.	C	Obj : 3.OA.3. Use multiplication and division within ...	56.	B	Obj : 3.OA.7. Fluently multiply and divide within 100...
16.	C	Obj : 3.OA.3. Use multiplication and division within ...	57.	A	Obj : 3.OA.7. Fluently multiply and divide within 100...
17.	C	Obj : 3.OA.3. Use multiplication and division within ...	58.	D	Obj : 3.OA.7. Fluently multiply and divide within 100...
18.	C	Obj : 3.OA.3. Use multiplication and division within ...	59.	A	Obj : 3.OA.7. Fluently multiply and divide within 100...
19.	B	Obj : 3.OA.3. Use multiplication and division within ...	60.	C	Obj : 3.OA.7. Fluently multiply and divide within 100...
20.	A	Obj : 3.OA.3. Use multiplication and division within ...	61.	A	Obj : 3.OA.8. Solve two-step word problems using the ...
21.	B	Obj : 3.OA.3. Use multiplication and division within ...	62.	A	Obj : 3.OA.8. Solve two-step word problems using the ...
22.	B	Obj : 3.OA.3. Use multiplication and division within ...	63.	B	Obj : 3.OA.8. Solve two-step word problems using the ...
23.	A	Obj : 3.OA.3. Use multiplication and division within ...	64.	C	Obj : 3.OA.8. Solve two-step word problems using the ...
24.	A	Obj : 3.OA.3. Use multiplication and division within ...	65.	A	Obj : 3.OA.8. Solve two-step word problems using the ...
25.	A	Obj : 3.OA.3. Use multiplication and division within ...	66.	C	Obj : 3.OA.8. Solve two-step word problems using the ...
26.	B	Obj : 3.OA.3. Use multiplication and division within ... Obj : 3.OA.6. Understand division as an unknown-facto...	67.	B	Obj : 3.OA.8. Solve two-step word problems using the ...
27.	B	Obj : 3.OA.4. Determine the unknown whole number in a...	68.	A	Obj : 3.OA.8. Solve two-step word problems using the ...
28.	B	Obj : 3.OA.4. Determine the unknown whole number in a...	69.	B	Obj : 3.OA.8. Solve two-step word problems using the ...
29.	A	Obj : 3.OA.4. Determine the unknown whole number in a...	70.	B	Obj : 3.OA.8. Solve two-step word problems using the ...
30.	D	Obj : 3.OA.4. Determine the unknown whole number in a...	71.	C	Obj : 3.OA.8. Solve two-step word problems using the ...
31.	C	Obj : 3.OA.4. Determine the unknown whole number in a...	72.	C	Obj : 3.OA.8. Solve two-step word problems using the ...
32.	D	Obj : 3.OA.4. Determine the unknown whole number in a...	73.	B	Obj : 3.NBT.2. Fluently add and subtract within 1000 u... Obj : 3.OA.8. Solve two-step word problems using the ...
			74.	A	Obj : 3.OA.8. Solve two-step word problems using the ...
			75.	B	Obj : 3.OA.8. Solve two-step word problems using the ...
			76.	A	Obj : 3.OA.9. Identify arithmetic patterns (including...
			77.	B	Obj : 3.OA.9. Identify arithmetic patterns (including...
			78.	A	Obj : 3.OA.9. Identify arithmetic patterns (including...

41. A Obj : 3.OA.5. Apply properties of operations as strat...

90. C Obj : 3.OA.9. Identify arithmetic patterns (including...

91. B Obj : 3.OA.9. Identify arithmetic patterns (including...

Objectives Measured:	Items	Questions measuring this objective
Obj : 3.NBT.1. Use place value understanding to round ...	1	14
Obj : 3.NBT.2. Fluently add and subtract within 1000 u...	2	33, 73
Obj : 3.OA.1. Interpret products of whole numbers, e....	5	8, 34, 35, 36, 37
Obj : 3.OA.2. Interpret whole-number quotients of who...	14	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14
Obj : 3.OA.3. Use multiplication and division within ...	12	15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26
Obj : 3.OA.4. Determine the unknown whole number in a...	11	27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37
Obj : 3.OA.5. Apply properties of operations as strat...	10	38, 39, 40, 41, 42, 43, 44, 45, 46, 47
Obj : 3.OA.6. Understand division as an unknown-facto...	8	6, 7, 26, 48, 49, 50, 51, 52
Obj : 3.OA.7. Fluently multiply and divide within 100...	8	53, 54, 55, 56, 57, 58, 59, 60
Obj : 3.OA.8. Solve two-step word problems using the ...	16	47, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75
Obj : 3.OA.9. Identify arithmetic patterns (including...	16	76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91

#	Key	Item ID
1.	A	MC 144682
2.	A	MC 146538
3.	D	MC 142736
4.	A	MC 144697
5.	B	MC 144691
6.	C	MC 47002
7.	D	MC 37217
8.	A	MC 37313
9.	B	MC 142778
10.	C	MC 34659
11.	B	MC 32793
12.	B	MC 32794
13.	C	MC 37312
14.	B	MC 37314
15.	C	MC 146543
16.	C	MC 146544
17.	C	MC 144861
18.	C	MC 144860
19.	B	MC 144072
20.	A	MC 144122
21.	B	MC 144684
22.	B	MC 144681
23.	A	MC 50540
24.	A	MC 50264
25.	A	MC 47045
26.	B	MC 47018
27.	B	MC 146547
28.	B	MC 146546
29.	A	MC 144863
30.	D	MC 144696
31.	C	MC 144679
32.	D	MC 142761
33.	A	MC 34690
34.	C	MC 37137
35.	B	MC 37146
36.	D	MC 37033
37.	C	MC 37031
38.	D	MC 146661
39.	B	MC 146660
40.	B	MC 144832
41.	A	MC 144119
42.	D	MC 142759
43.	D	MC 50539
44.	B	MC 50243
45.	C	MC 46948

#	Key	Item ID
46.	B	MC 37103
47.	A	MC 37341
48.	A	MC 146664
49.	C	MC 144109
50.	A	MC 146665
51.	C	MC 50252
52.	D	MC 46974
53.	C	MC 146669
54.	A	MC 146671
55.	D	MC 142569
56.	B	MC 144835
57.	A	MC 142728
58.	D	MC 142726
59.	A	MC 142571
60.	C	MC 33007
61.	A	MC 144855
62.	A	MC 142750
63.	B	MC 146673
64.	C	MC 146674
65.	A	MC 141788
66.	C	MC 142770
67.	B	MC 144076
68.	A	MC 144128
69.	B	MC 50246
70.	B	MC 50254
71.	C	MC 38105
72.	C	MC 36996
73.	B	MC 34675
74.	A	MC 37199
75.	B	MC 37102
76.	A	MC 146679
77.	B	MC 146678
78.	A	MC 142574
79.	B	MC 146676
80.	B	MC 142575
81.	A	MC 144830
82.	C	MC 144098
83.	B	MC 144097
84.	A	MC 144659
85.	D	MC 144828
86.	C	MC 144829
87.	A	MC 142763
88.	A	MC 142573
89.	B	MC 50192
90.	C	MC 34664
91.	B	MC 50201