

St. Patrick School Summer Math Packet

Incoming 5th Graders

You have heard it said that “math is not a spectator sport.” This means that the way a person becomes good at math is by “doing math”. Since it is important to exercise your mathematical thinking so that you remain in “good mathematical shape”, I have designed the problems in this packet to help you review topics we have learned from this past school year.

Please put the pages in order and staple before turning in the packet.
All problems must be **worked out clearly**.

Remember to read each question carefully! Also remember all the shortcuts that we have learned and practiced!

Have a safe and blessed summer vacation!!

Love always,

Ms. Shaw

PearsonRealize Summer Math Packet- Entering
5th graders

1. Draw lines to match the value of the underlined digit in the numbers on the left to the numbers on the right.

83, <u>2</u> 84	8,000
<u>8</u> 4,794	80
3 <u>8</u> ,385	800
48, <u>8</u> 34	80,000

2. Which symbol makes the comparison true? Write the correct symbol from the box.

443,292 445,692

< > =

3. Patrick writes 20,033 in expanded form. What did Patrick write?

4. The table shows the number of people who visited three different dog parks over the past year.

All Dogs Park	45,392
Sunshine Park	24,934
Fountain Park	26,647

Part A

Write the expanded form of each number in the **Number of Visitors** table.

5. Choose Yes or No to tell if the comparison is correct.

65,215 > 65,512 Yes No

292,200 < 229,200 Yes No

890,242 > 890,224 Yes No

101,111 < 111,111 Yes No

6. The senior class printed 3,000 tickets for a play. They sold 2,450 tickets. How many tickets are left?
- (A) 450 tickets
 - (B) 550 tickets
 - (C) 1,450 tickets
 - (D) 5,450 tickets

7. On Saturday, 143,355 people went to a festival. On Sunday, only 47,777 people went to the festival. How many more people went on Saturday than on Sunday?
- (A) 85,978 people
 - (B) 86,978 people
 - (C) 95,578 people
 - (D) 96,078 people

8. The Nile River is 7,088 kilometers long. The Amazon River is 6,575 kilometers long. How much longer is the Nile River than the Amazon River?

9. Draw lines to connect equal expressions.

$17,432 + 8,509$	$16,520$
$83,928 - 67,408$	$38,252$
$32,336 - 15,916$	$25,941$
$21,732 + 16,520$	$16,420$

10. In August, Jo's Pizza Shop sold 7,236 pizzas. In September, 5,957 pizzas were sold. What is the total number of pizzas sold?

11. Nikolas and Jayson recorded the number of miles each ran over two years.

Miles Ran

Year	Nikolas	Jayson
Last Year	1,362	948
This Year	982	1,013

Write and solve equations to find how many more total miles Nikolas and Jayson ran last year than this year.

12. In each of 3 games last month, Julia's bowling score was 195. Use compensation to find the total score for Julia's 3 games.

13. Elliot's father drives 2,037 miles each month. How many miles does he drive in 4 months?

14. The Bumblebee Bakery is taking orders for cupcakes. The cupcakes are sold in boxes.

Cupcakes	Number of Boxes
Strawberry Crème	37
Blackberry Bliss	72
Chocolate Delight	43
Surprise Assortment	17

There are 8 Blackberry Bliss cupcakes in each box. Write and solve an equation to find how many Blackberry Bliss cupcakes were ordered.

15. The table shows the number of sandwiches sold in a busy deli in 1 month.

Type	Number
Chicken	230
Roast Beef	189
Ham	305
Turkey	267

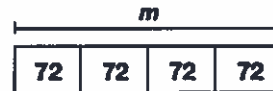
If the same number of turkey sandwiches were sold for 4 months in a row, how many turkey sandwiches would be sold in all?

16. Maria earns \$183 per month for babysitting. Which are reasonable estimates for the amount of money Maria will have if she saves all of the money she earns for 3 months?

- \$300
 \$400
 \$500
 \$600
 \$900

17. A copy clerk makes 4 copies of a 256-page document. How many pages were copied? Draw a bar diagram to solve the problem.

18. Each package holds 72 markers. Mr. Alvarez has 4 packages. Write and solve an equation that can be used to find the number of markers Mr. Alvarez has.



19. There are 23 students in Mrs. Lee's class. Each student has a box containing 28 pastel crayons. Use rounding to estimate the total number of pastel crayons in Mrs. Lee's class.

20. The pizza parlor uses 20 pieces of pepperoni on each large pizza. The pizza parlor made 60 large pizzas. How many pieces of pepperoni were used on the large pizzas?
- (A) 40 pieces (C) 1,200 pieces
(B) 120 pieces (D) 12,000 pieces

21. Joey's scout troop is building 14 birdhouses. Each birdhouse uses 30 nails. How many nails does the troop need in all?

22. Mrs. Ander's garden has 12 rows of blue flowers. Each row contains 16 blue flowers. Write and solve an equation to find the number of blue flowers in Mrs. Ander's garden.

23. A baker's dozen has 13 muffins. Serena ordered 30 baker's dozens. How many muffins did Serena order?

24. Mrs. Brooks has 34 yards of ribbon to make wreaths. Each wreath requires 5 yards of ribbon. How many wreaths can Mrs. Brooks make? How many yards will she have left?

25. Mr. Moretti saves an equal amount of money each month for 8 months. He is saving to buy a boat that costs \$2,400. Draw a bar diagram. Write and solve an equation to find how much money Mr. Moretti needs to save each month to buy the boat.

26. Sam has 575 photos printed. He puts an equal number of photos into each of 5 albums.

Part A

Write an equation to show the number of photos Sam put in each album.

27. The cost of a camping trip was \$2,484. The cost was divided equally among 6 families. How much money did each family pay?

- (A) \$224
(B) \$414
(C) \$480
(D) \$481

28. There are 4,200 beads in a box. There are 6 bags of beads in each box. If each bag has the same number of beads, how many beads are in each bag?

29. Choose Yes or No to tell if the remainder is 3.

9a. $52 \div 6 = 8 \text{ R?}$ Yes No

9b. $351 \div 6 = 58 \text{ R?}$ Yes No

9c. $1,348 \div 7 = 192 \text{ R?}$ Yes No

9d. $2,699 \div 8 = 337 \text{ R?}$ Yes No

30. There are 4,200 beads in a box. There are 6 bags of beads in each box. If each bag has the same number of beads, how many beads are in each bag?

31. The distance from Columbus to Lexington is about 200 miles. Mrs. Potter's goal is to drive to Lexington in 4 hours. How many miles does she need to drive each hour to meet her goal?

32. Use an algorithm to find the quotient. Choose numbers from the box to complete the calculations. Use each number once.

$$\begin{array}{r}
 \square 6 \square \\
 4 \overline{) 676} \\
 - \square \\
 \hline
 2 \square \\
 - \square 4 \\
 \hline
 \square 6 \\
 - 3 \square \\
 \hline
 \square
 \end{array}$$

0	1
2	3
4	6
7	9

33. The Comic Depot gives customers a free comic book when they purchase 9 comic books. How many free comic books can Marci get if she buys 68 comics? How many more comic books does she need to buy to get her next free comic book?

34. Choose the correct phrase from the box to complete each statement.

times as many as more than

100 is 52 48.

88 is 8 11.

63 is 9 7.

72 is 12 60.

35. Emily wrote a list of expressions and a list of solutions. Draw lines to match the expression with the correct solution.

Expression	Solution
25 times as many as w is 200	54
64 is 4 times as many as b	108
6×18	16
6 times as many as 9	8

36. Paige wrote 4 sets of numbers. Which sets show only multiples of 8?

2a. 8, 16, 24, 32 Yes No

2b. 16, 32, 40, 64 Yes No

2c. 1, 2, 4, 8 Yes No

2d. 8, 80, 88, 800 Yes No

37. Which statement is true?

(A) The only factors of 4 are 4 and 1.

(B) The only factors of 7 are 7 and 1.

(C) The only factors of 16 are 16 and 1.

(D) The only factors of 32 are 32 and 1.

38. Choose the correct word from the box to complete each statement.

Prime	Composite
-------	-----------

29 is a number.

51 is a number.

62 is a number.

91 is a number.

39. Write 3 multiples and 3 factors for 12.

40. Which lists all the factors of 36?

(A) 1, 36

(B) 1, 2, 4, 6, 36

(C) 1, 2, 3, 4, 6, 9, 12, 18, 36

(D) 36, 72, 108, 144, 180, 216

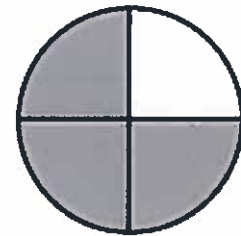
41. For dinner, Josie ate $\frac{3}{4}$ of her pizza. What fraction is equivalent to $\frac{3}{4}$?

(A) $\frac{1}{4}$

(B) $\frac{3}{8}$

(C) $\frac{4}{6}$

(D) $\frac{6}{8}$



42. Missy walks $\frac{1}{3}$ mile to school. Select all the fractions that are equivalent to $\frac{1}{3}$.

$\frac{1}{6}$

$\frac{2}{6}$

$\frac{4}{12}$

$\frac{3}{6}$

$\frac{3}{4}$

43. Explain how to use multiplication to find an equivalent fraction for $\frac{1}{4}$.

44. Only one of the comparisons below is incorrect. Which is incorrect?

- (A) $\frac{1}{4} < \frac{1}{3}$ (C) $\frac{5}{6} = \frac{7}{8}$
 (B) $\frac{3}{8} > \frac{1}{4}$ (D) $\frac{1}{3} < \frac{2}{5}$

45. Select all the expressions that show a way to decompose $\frac{5}{10}$.

- $\frac{3}{10} + \frac{2}{10}$
 $\frac{1}{10} + \frac{1}{10} + \frac{3}{10}$
 $\frac{3}{4} + \frac{2}{6}$
 $\frac{1}{10} + \frac{2}{10} + \frac{2}{10}$
 $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

46. For questions 5a–5d, choose Yes or No to tell if $\frac{4}{10}$ will make each equation true.

- 5a. $\frac{3}{10} + \square = \frac{7}{10}$ Yes No
 5b. $\frac{16}{10} - \square = 1$ Yes No
 5c. $1\frac{1}{10} + \square = 5\frac{1}{10}$ Yes No
 5d. $1\frac{5}{10} - \square = 1\frac{1}{10}$ Yes No

47.

$$\begin{array}{r} 8\frac{5}{8} \\ - \quad \frac{7}{8} \\ \hline \end{array}$$

48.

$$\begin{array}{r} 2\frac{7}{13} \\ - \quad \frac{11}{13} \\ \hline \end{array}$$

49.

$$\begin{array}{r} 2\frac{4}{7} \\ - \quad \frac{5}{7} \\ \hline \end{array}$$

50.

$$\begin{array}{r} 2\frac{3}{8} \\ + \quad \frac{7}{8} \\ \hline \end{array}$$

51.

$$\begin{array}{r} 1\frac{3}{4} \\ + \quad \frac{3}{4} \\ \hline \end{array}$$

Converting Mixed Numbers to Improper Fractions

52. For questions 2a–2d, choose Yes or No to tell if $\frac{1}{3}$ will make each equation true.

2a. $6 \times \square = \frac{6}{3}$ Yes No

2b. $6 \times \square = 2$ Yes No

2c. $7 \times \square = \frac{1}{7}$ Yes No

2d. $7 \times \square = 2\frac{1}{3}$ Yes No

Converting Improper Fractions to Mixed Numbers

53. $\frac{7}{2} =$ _____

54. $\frac{14}{3} =$ _____

55. $\frac{5}{2} =$ _____

56. $\frac{11}{2} =$ _____

Converting Mixed Numbers to Improper Fractions

57. $4\frac{2}{5} =$ _____

58. $2\frac{4}{5} =$ _____

59. $9\frac{1}{4} =$ _____

60. $\frac{2}{3} \times 9 =$

61. $\frac{2}{4} \times 7 =$

62. $\frac{1}{2} \times 5 =$

63. $\frac{1}{3} \times 8 =$

Bonus:

64. $3\frac{1}{3} \times 3\frac{1}{2} =$

65. $2\frac{2}{3} \times 4\frac{1}{2} =$

Grade 4 Multiplication Worksheet

Find the product.

1. $8 \times 3 =$ _____ 2. $11 \times 5 =$ _____ 3. $11 \times 7 =$ _____

4. $10 \times 8 =$ _____ 5. $12 \times 8 =$ _____ 6. $8 \times 10 =$ _____

7. $3 \times 9 =$ _____ 8. $12 \times 9 =$ _____ 9. $2 \times 11 =$ _____

10. $10 \times 10 =$ _____ 11. $5 \times 7 =$ _____ 12. $8 \times 9 =$ _____

13. $2 \times 3 =$ _____ 14. $4 \times 8 =$ _____ 15. $11 \times 10 =$ _____

16. $3 \times 7 =$ _____ 17. $5 \times 3 =$ _____ 18. $5 \times 10 =$ _____

19. $7 \times 10 =$ _____ 20. $9 \times 2 =$ _____ 21. $9 \times 9 =$ _____

22. $2 \times 6 =$ _____ 23. $10 \times 2 =$ _____ 24. $8 \times 8 =$ _____

25. $4 \times 5 =$ _____ 26. $11 \times 9 =$ _____ 27. $3 \times 3 =$ _____

Grade 4 Division Worksheet

Find the quotient.

1. $24 \div 6 =$ _____ 2. $16 \div 4 =$ _____ 3. $24 \div 3 =$ _____

4. $16 \div 8 =$ _____ 5. $2 \div 2 =$ _____ 6. $72 \div 9 =$ _____

7. $8 \div 8 =$ _____ 8. $20 \div 4 =$ _____ 9. $30 \div 5 =$ _____

10. $12 \div 6 =$ _____ 11. $18 \div 2 =$ _____ 12. $48 \div 8 =$ _____

13. $30 \div 6 =$ _____ 14. $10 \div 10 =$ _____ 15. $18 \div 6 =$ _____

16. $80 \div 8 =$ _____ 17. $30 \div 10 =$ _____ 18. $10 \div 5 =$ _____

19. $4 \div 2 =$ _____ 20. $6 \div 3 =$ _____ 21. $14 \div 7 =$ _____

22. $70 \div 10 =$ _____ 23. $4 \div 1 =$ _____ 24. $28 \div 4 =$ _____

7,429

7,682

6,586

+ 2,756

5,626

+ 8,477

8,291

+ 9,671

4,449

+ 3,946

1,517

+ 3,996

7,545

6,013

3,888

- 2,595

5,225

- 2,710

9,549

- 2,152

5,342

- 2,252

6,963

- 2,225

225

58

745

x 58

975

x 54

880

x 61

580

x 72

938

x 71

3676

6 6256

6 7189

4 7970

7 7120

8 9956