Name:_____ Grade: Rising 8th ALGEBRA

*****THIS PACKET IS DUE FRIDAY 08/15/2025*****

SJP2 Summer Math Packet

Purpose: We do summer math packets for two main reasons: 1) To review concepts from the previous school year and 2) To keep our brain thinking mathematically over the summer and help prevent summer slippage.

How to complete: The best way to complete this summer packet is to work on it throughout the summer. I do NOT recommend waiting until the week before school starts and I also do NOT recommend completing it all in May. Doing about a page a week is a great way to spread it out and do a little math throughout the summer.

Stuck?: Need help with a concept? Ask your parents, grandparents or siblings, they are great resources. Mrs. Kendrew will also be checking her email occasionally so you can always email her with a specific question. (jkendrew@sjp2.us) Do not let confusion freeze you up in your progress. Skip a page and come back to it if you need to.

Need more practice?: We have just acquired an IXL subscription. Students may log on at home and work on any concepts from **the previous grade level or below.** Please **DO NOT** go ahead to next year's grade level/topics.

- To log onto IXL, visit this website: ixl.com/signin/saintpetersburg … there will be a button for students to click and log in with their school Google Accounts.
- Any trouble logging in, please feel free to email me. I will be checking email throughout the summer except while I'm away June 6th - June 14th.

Good luck! Don't stress. Have fun! We will see you all back in August.

P.S. NO calculators please

Rising 8th - Algebra

Solve.

1) 437899 + 986754

2) 340067 - 34298

3) 2378 × 19

4) 4332 × 208

Solve.

5) 345 ÷ 6

6) 1456 ÷ 13

Evaluate each expression.

7) 1.9 + 5.46

8) 6.7 – 5.4

Find each product.

9) 2.3 × 0.5

10) 1.9 × 4.3

Round each to the place indicated.

11) 73,<u>8</u>56

12) 5<u>9</u>4,705,189

13) 9.8683; thousandths

14) 13,536; thousands

Evaluate each expression.

15) $4 + 4 \div 2^2 \times 4$

16) $1 + (13 \times 2 - 6) \div 4$

Find the GCF of each.

17) 24, 30

18) 48, 40

Find the LCM of each.

19) 6, 4

20) 30, 4

Simplify each fraction.

21) $\frac{36}{30}$

22) $\frac{70}{40}$

Solve. Simplify your answer if possible.

23) $\frac{14}{9} - \frac{2}{7}$

24) $\frac{3}{7} - \frac{1}{6}$

25) $4\frac{2}{3} + \frac{1}{6}$

26) $2\frac{5}{6} - 2\frac{1}{4}$

Solve. Simplify your answers if possible.

27) $\frac{2}{3} \times \frac{3}{4}$

28) $\frac{5}{8} \times \frac{3}{5}$

29) $1\frac{1}{2} \times \frac{5}{6}$

30) $2\frac{1}{10} \times \frac{1}{5}$

Find each quotient.

31) $\frac{10}{9} \div \frac{1}{2}$

32) $\frac{4}{3} \div \frac{3}{2}$

33) $1\frac{1}{2} \div 3\frac{1}{4}$

34) $2\frac{7}{10} \div \frac{3}{7}$

Evaluate each expression.

35) $7 + (-4)$

36) $(-3) + (-1)$

37) $8 - (-4)$

38) $7 - (-7)$

39) $(-4) + 3$

40) $(-8) + 3$

41) $5 - 1$

42) $4 - (-4)$

43) $(-7) + (-6)$

44) $(-4) - 8$

Find each product.

45) 6×-2

46) -3×-7

47) -8×7

48) -3×5

Find each quotient.

49) $36 \div 6$

50) $50 \div 10$

51) $81 \div 9$

52) $-28 \div -7$

Evaluate each using the values given.

53) $c + 3 + a - c \div 4$; use $a = 3$, and $c = 4$

54) $y + 3y + 6x$; use $x = 2$, and $y = 6$

Write each as an algebraic expression.

55) the product of 9 and 8

56) the quotient of 30 and 6

57) d increased by 6

58) the difference of n and 12

Simplify each expression.

59) $10a + a$

60) $b + 3b$

61) $6 - 7x - 4x$

62) $4b - 5b$

63) $4(1 + 5n)$

64) $9(-x - 6)$

65) $-4(x-8)$

66) $3(9a-1)$

Solve each equation.

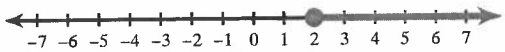
67) $\frac{p}{6} = 7$

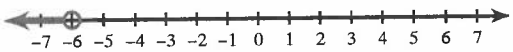
68) $x + 9 = 1$

69) $x - 20 = 0$

70) $4n = 24$

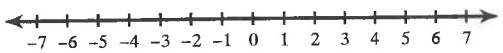
Write an inequality for each graph.

71) 

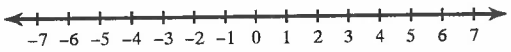
72) 

Draw a graph for each inequality.

73) $n \leq -2$



74) $n < 2$



Write each as a percent. Round to the nearest tenth of a percent.

75) 0.08

76) 0.8

77) 0.56

78) 0.7

Write each as a decimal. Round to the thousandths place.

79) 0.9%

80) 30%

81) 5%

82) 0.6%

Write each as a fraction.

83) 1%

84) 80%

85) 50%

86) 68%

Write each as a percent. Round to the nearest tenth of a percent.

87) $\frac{3}{20}$

88) $\frac{6}{25}$

89) $\frac{3}{10}$

90) $\frac{33}{50}$

Solve each proportion.

91) $\frac{8}{b} = \frac{2}{4}$

92) $\frac{5}{v} = \frac{10}{2}$

93) $\frac{4}{9} = \frac{8}{k}$

94) $\frac{3}{8} = \frac{p}{2}$