Dear Parents,

Summer is here...let the good times begin! We all enjoy a break from school and schedules. It always seems to fly by and we are back to school before we know it.

In a school-wide effort to maintain math skills over the summer, we are providing a math packet with review problems from this year. Our hope is that the children work a little each week to retain information learned, target trouble areas and seek extra help, as needed.

Math:

- **Accelerated Math- required and returned the first day of school**

Websites that might be helpful:

www.aplusmath.com	www.kidsmath.com	www.coolmath4kids.com
www.purplemath.com	www.softschools.com	www.homeschoolmath.net
www.yourteacher.com	www.mathfactcafe.com	www.education.com
www.ixl.com	www.funbrain.com	www.khanacademy.org

Reading: See attached packet for requirements

We are confident your children will benefit from extra practice and look forward to their return in August. Until then, thank you for your continued support of your children and Saint Henry School. We know the first teachers are their parents and we could not be successful without your help.

Thank you!

The Teachers of Saint Henry School

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Form Number 350224

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Objectives: (10 of 71 listed)

9. Prime & composite numbers
10. Factors of composite numbers
11. Prime factorization
12. Greatest common factor
13. Multiples of whole #s
14. Least common multiple
22. Multiply by a multiple of 10
23. Multiply by a power of 10
26. Evaluate exponents
27. Multiply with exponents

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1. What is 1% as a fraction? [A] $\frac{10}{100}$ [B] $\frac{1}{100}$ [C] $\frac{1}{50}$ [D] $\frac{1}{1{,}000}$

2. $|-11| =$ [A] -11 [B] 11 [C] $-\frac{1}{11}$ [D] $\frac{1}{11}$

3. $-14 \div 7 =$ [A] $-\frac{1}{2}$ [B] -2 [C] $\frac{1}{2}$ [D] 2

4. Which of the following proportions is true?

[A] $\frac{2}{5} \stackrel{?}{=} \frac{6}{20}$ [B] $\frac{8}{15} \stackrel{?}{=} \frac{2}{5}$ [C] $\frac{18}{45} \stackrel{?}{=} \frac{2}{5}$ [D] $\frac{2}{5} \stackrel{?}{=} \frac{8}{25}$

5. $5 - 19 =$ [A] 14 [B] 24 [C] -14 [D] -24

6. What is the greatest common factor of 42 and 48? [A] 112 [B] 2 [C] 6 [D] 336

7. Betsy has \$146 in her checking account. She writes a check for \$117, makes a deposit of \$56, and then writes another check for \$85. What is the balance of her account, written as an integer?

[A] $-\$146$ [B] \$292 [C] \$0 [D] $-\$1$

8. $8\frac{1}{6} \times 5\frac{3}{5} =$ (Simplify the answer if possible.) [A] $45\frac{11}{15}$ [B] $12\frac{8}{11}$ [C] $4\frac{4}{5}$ [D] 7

9. Diana borrowed \$2,055.00 to buy a car. She will pay back the loan with 12 equal payments. How much will each payment be?

[A] \$164.25 [B] \$171.25 [C] \$159.25 [D] \$183.25

10. Write $\frac{5}{16}$ as a percent. [A] $31\frac{1}{4}\%$ [B] $\frac{31}{100}\%$ [C] 3,125% [D] none of these

11. $6^3 =$ [A] 216 [B] 36 [C] 206 [D] 18

12. Evaluate $3(10x+2)$ when $x=4$. [A] 126 [B] 180 [C] 144 [D] 122

13. $4\frac{1}{2} \div \frac{4}{3} =$ [A] $3\frac{3}{8}$ [B] $4\frac{3}{8}$ [C] $3\frac{3}{4}$ [D] 6

14. Paige walked a distance of 3 miles to deliver a storage box. She stopped every $\frac{1}{3}$ mile to rest. How many times did Paige stop?

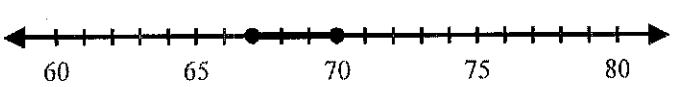
[A] 4 times [B] 6 times [C] 9 times [D] 7 times

15. Simplify: $23.4 - 8.3 \times 0.77$ [A] 16.009 [B] 17.009 [C] 11.704 [D] 11.627

16. $9 - 5\frac{1}{5} =$ (Simplify the answer if possible.) [A] $8\frac{4}{5}$ [B] $14\frac{1}{5}$ [C] $4\frac{1}{5}$ [D] $3\frac{4}{5}$

17. $30{,}180 \times 270 =$ [A] 8,148,590 [B] 8,147,600 [C] 8,148,600 [D] 8,148,500

18. Normal temperature in a fish tank is 70°F. It is safe for the temperature to vary by 3° in either direction. Which number line shows the range of safe temperatures?

[A]


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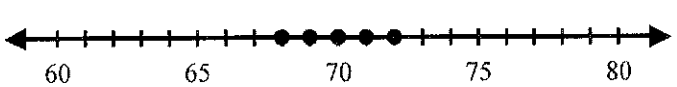

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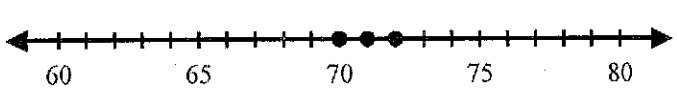

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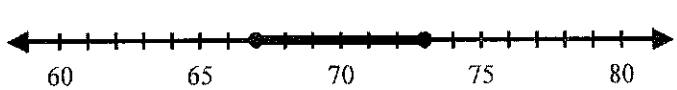


19. Which of the following statements is false?

[A] $-2 \geq 5$ [B] $5 \geq -2$ [C] $-5 \leq 2$ [D] $2 \geq -5$

20. What is the mean of the following data? [A] 8 [B] 6 [C] 9 [D] 11
12, 7, 5, 10, 8, 12

21. Evaluate the expression $\frac{pq}{9}+14$ for $p=45$ and $q=2$. [A] 24 [B] 23 [C] 10 [D] $11\frac{5}{9}$

22. What is the mode in the following set of data? [A] 24 [B] 25 [C] 17.2 [D] 19
24, 9, 24, 19, 2, 9, 29, 27, 10, 12, 24

23. Which shows 0.25 as a fraction? [A] $\frac{25}{1{,}000}$ [B] $\frac{1}{4}$ [C] 4 [D] $\frac{5}{2}$

24. Evaluate: $2x^3+5$ if $x=4$ [A] 221 [B] 517 [C] 29 [D] 133

25. Find the least common multiple of 6, 9, and 12. [A] 36 [B] 18 [C] 72 [D] 12

26. Which is *not* a multiple of 7? [A] 20 [B] 14 [C] 35 [D] 70

27. $2^2 \times 3^2 =$ [A] 12 [B] 36 [C] 18 [D] 13

28. $28+21=$ [A] $3(7+4)$ [B] $4(7+3)$ [C] $7(4+3)$ [D] $7(4+1)$

29. $2+(-11)=$ [A] -9 [B] -13 [C] 13 [D] 9

30. Which group contains ratios that are all equivalent to $\frac{4}{10}$?

[A] $\frac{2}{5}, \frac{6}{15}, \frac{8}{20}$ [B] $\frac{2}{5}, \frac{4}{15}, \frac{6}{20}$ [C] $\frac{2}{5}, \frac{3}{6}, \frac{4}{7}$ [D] $\frac{5}{2}, \frac{15}{6}, \frac{20}{8}$

31. There are 45.87 grams of medication. If a pharmacist wants to separate the medication into 50 capsules, how many grams will be in each? (Round to the nearest hundredth.)

[A] 2,293.51 grams [B] 2,293.50 grams [C] 0.93 grams [D] 0.92 grams

32. Write $\frac{2}{10}$ in decimal form. [A] 0.8 [B] 2.0 [C] 0.2 [D] 0.02

33. What is 56% as a decimal? [A] 0.56 [B] 5.6 [C] 0.0056 [D] 0.056

34. Which is the ratio 12 to 27 expressed as a fraction in lowest terms?

[A] $\frac{8}{9}$ [B] $\frac{12}{27}$ [C] $\frac{4}{9}$ [D] $\frac{9}{4}$

35. This table shows the heights, in inches, of the seven Greene cousins.

Name	Height		Name	Height
George	56		Sarah	66
LaMisha	60		Thomas	51
Luther	61		Yolanda	55
Joni	52			

The Greene cousins stood in a line from *tallest* to *shortest*. Who was standing in the middle?

[A] Sarah [B] LaMisha [C] George [D] Joni

36. Solve: $n - 7 = 14$ [A] –13 [B] 7 [C] –21 [D] 21

37. Multiply: 100×0.84 [A] 84 [B] 0.84 [C] 840 [D] 8.4

38. Aaron has \$138 in his checking account. He writes a check for \$113, makes a deposit of \$50, and then writes another check for \$89. What is the balance of his account, written as an integer?

[A] \$14 [B] \$290 [C] –\$14 [D] –\$152

39. Choose the fraction that is equivalent to $2\frac{3}{4}$. [A] $\frac{4}{11}$ [B] $\frac{11}{4}$ [C] $\frac{4}{24}$ [D] $\frac{24}{4}$

40. $-9 \times -2 =$ [A] –11 [B] –18 [C] 18 [D] –7

41. After fishing for 3 hours, Ernest caught a fish that was $15\frac{3}{4}$ inches long, and Martha caught one that was $13\frac{1}{16}$ inches long. How much longer was Ernest's fish than Martha's fish? Simplify the answer if possible.

[A] $2\frac{3}{4}$ in. [B] $2\frac{11}{16}$ in. [C] $2\frac{15}{16}$ in. [D] none of these

42. What is 0.05 as a percent? [A] 5% [B] $\frac{5}{100}\%$ [C] 0.0005% [D] 0.05%

43. $19 - 24 =$ [A] 43 [B] 5 [C] –43 [D] –5

44. Find the reciprocal of $1\frac{1}{6}$. [A] 76 [B] $\frac{6}{7}$ [C] 67 [D] $\frac{5}{6}$

45. $6\frac{1}{3}+5\frac{3}{5}=$ (Reduce your answer) [A] $11\frac{14}{15}$ [B] $30\frac{1}{5}$ [C] $11\frac{1}{2}$ [D] $11\frac{1}{15}$

46. Which of the following numbers is prime? [A] 51 [B] 31 [C] 35 [D] 21

47. Over the course of two hockey seasons, a star hockey player scored 41 goals while playing in 90 games. Express his scoring rate as a unit rate. Round your answer to the thousandths place.

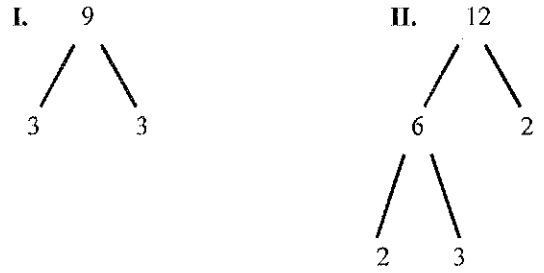
[A] 0.444 goal per game [B] 0.456 goal per game

[C] 2.195 goals per game [D] 0.544 goal per game

48. $-14+4=$ [A] -10 [B] -18 [C] 18 [D] 10

49. Solve the proportion: $\frac{3}{4}=\frac{q}{52}$ [A] $q=39$ [B] $q=13$ [C] $q=12$ [D] $q=37$

50. Which factor tree is correct?



[A] II [B] I & II [C] I [D] Neither

51. Linda was fishing with her grandmother. If she caught a 37.7-centimeter fish and her grandmother caught a 41.7-centimeter fish, how much longer was her grandmother's fish?

[A] 79.4 cm [B] 4.1 cm [C] 79.3 cm [D] 4 cm

52. Simplify: $6\times(8+5)+6$ [A] 84 [B] 468 [C] 59 [D] 114

53. $-21-4=$ [A] -25 [B] -17 [C] 17 [D] 25

54. What is 50% of 28? [A] 1.4 [B] $\frac{50}{28}$ [C] 14 [D] none of these

55. Simplify: $12 \times 4 + 9 - 12 \div 4$ [A] 47 [B] 47.25 [C] 11.25 [D] 54

56. A charter bus holding 30 passengers costs $16.25 an hour. If the round trip took 6 hours, what did it cost each passenger?

[A] $3.25 [B] $97.50 [C] $32.50 [D] $6.50

57. Which of the following shows $5\frac{1}{4}$ as a decimal? [A] 5 [B] 5.25 [C] 0.501 [D] 5.01

58. One day at 2:00 A.M. the temperature was 62° F in Anchorage, Alaska. At 9:00 A.M. the temperature was 69° F. How many degrees did the temperature raise per hour?

[A] 5 degrees [B] 3 degrees [C] 7 degrees [D] 1 degree

59. There are 264 ounces of chocolate milk. If each drinking glass holds 25.9 ounces, how many full glasses will there be?

[A] 11 glasses [B] 91 glasses [C] 101 glasses [D] 10 glasses

60. Each serving of potato chips has 9.15 grams of fat. If a bag contains 9.4 servings, how many grams of fat are in one bag of potato chips?

[A] 18.55 grams [B] 85.91 grams [C] 19.55 grams [D] 86.01 grams

61. $777 \times 1{,}000 =$ [A] 777,000 [B] 7,770 [C] 1,777 [D] 223

62. Which shows 1.35 as a mixed number with a fraction reduced to lowest terms?

[A] $1\frac{7}{20}$ [B] $1\frac{35}{100}$ [C] $1\frac{7}{10}$ [D] $\frac{135}{100}$

63. List all the factors of 36.

[A] 1, 2, 3, 4, 5, 6, 12, 18, 24, 36 [B] 1, 2, 17, 34, 36

[C] 1, 2, 3, 4, 6, 12, 16, 24, 48 [D] 1, 2, 3, 4, 6, 9, 12, 18, 36

64. Harriet had $7\frac{1}{5}$ liters of oil and used $\frac{4}{7}$ of it. How much oil did Harriet use?

[A] $5\frac{4}{7}$ liters [B] $\frac{4}{5}$ liters [C] $4\frac{4}{35}$ liters [D] 35 liters

65. A bag of 1,000 seeds weighs 3.98 ounces. What is the average weight of one seed?

[A] 1,003.98 oz [B] 398 oz [C] 0.000398 oz [D] 0.00398 oz

66. $(-5)-(-1)=$ [A] -4 [B] 6 [C] 4 [D] -6

67. $7\frac{4}{13}$
$-3\frac{5}{13}$

[A] $4\frac{1}{13}$ [B] $3\frac{12}{13}$ [C] $3\frac{1}{13}$ [D] $4\frac{12}{13}$

68. Amir's most recent golf score was $+1$ (1 above par).
Which is the opposite of $+1$?

[A] $+\frac{1}{1}$ [B] -1 [C] $+1$ [D] $-\frac{1}{1}$

69. The school band was performing 3 pieces. The lengths of the pieces played were $2\frac{1}{4}$ minutes, $8\frac{3}{4}$ minutes , and $3\frac{1}{2}$ minutes. The total time taken between pieces was $1\frac{1}{2}$ minutes. How long was the performance?

[A] 16 min [B] $21\frac{1}{3}$ min [C] $13\frac{3}{4}$ min [D] $14\frac{1}{4}$ min

70. Which of the following represents $\frac{30}{7}$ as a mixed number?

[A] $1\frac{1}{7}$ [B] $4\frac{1}{2}$ [C] $4\frac{2}{7}$ [D] $\frac{2}{7}$

71. $2\frac{2}{3}\div 4\frac{5}{6}=$ [A] $\frac{2}{5}$ [B] $\frac{16}{29}$ [C] $13\frac{13}{15}$ [D] $1\frac{13}{16}$