St. Mary's School
5th Grade Summer Math Expectations 2019

Happy Summer Middle School Parents!

Like summer reading, ongoing math practice increases as student's ability to retain concepts, enhance their performance, and prepare them for the next grade level. The Summer Math Packet also gives students a better idea of what concepts they are expected to understand coming into 6th grade. Students should show their work and date each page as they complete it.

The first third of the packet (all pages before the purple sheet of paper) should be completed and dropped off at the school by June 19. The pages can be dropped off at school M – W, 7:30-3:30 or mailed to me at the address below.

The second third of the packet (up to the blue sheet) should be completed and submitted by July 17th.

The rest of the packet will be collected on the third day of school, August 8th.

*The completed packet will be counted as the first math **Quiz Grade** of the 2019-2020 school year. Failure to submit this packet on time, with detailed work, will result in a grade of a **zero**.

All students are expected to complete this packet individually and to the best of their ability. This is not a group assignment. Students may **NOT** use a calculator until after the packet is completed to check student answers. You should ensure that your child does not procrastinate, but rather plans the gradual completion of it during the summer. I have included Help Pages at the back of the packet. I strongly encourage the use of these detailed notes.

Please join me as we work together to ensure your child's mathematical success. Do not hesitate to email me if you have concerns about your child's progress regarding summer math.

In His peace,

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Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Summer Math Skills for 5th Grade going into 6th Grade

Complete the statement with <, >, or =.

1. 4.5 ? 5.4

2. 16.64 ? 16.57

3. 0.32 ? 0.320

Complete the statement.

4. 3 qt 2 pt = ? pt

5. 87 in. = ? yd ? ft ? in.

Find the sum, difference, product, or quotient.

6. $162 \div 6$

7. $273 - 148$

8. 37×22

9. $407 - 53$

10. $18 + 294$

Find the value of the power.

11. 9^3

12. 6 cubed

13. 14 squared

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Evaluate the expression.

14. $34 - 16 + 7$

15. $14 + 8 \div 2$

16. $7 \times 6 + 12 \div 4$

17. $16 + p = 22$

18. $42 = d - 35$

19. $a + 6 = 11$

Graph the points on the same coordinate grid.

20. (4, 0)

21. $(-3, 1)$

Find the mean, median, mode(s), and range of the data.

22. Number of pieces of mail: 4, 8, 6, 2, 0, 3, 7, 5, 8, 2

23. The data show the price charged by roadside stands for a dozen ears of corn. Find the mean, median, mode(s), and range of the data.
Dollars: 2, 2, 3, 4, 4, 3, 3, 4, 4, 3, 2, 2

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Write the number as a decimal.

24. eighty-nine ten thousandths

25. twenty-six and fourteen hundredths

Write the decimal in words.

26. 10.362

27. 0.0793

28. Write 13.015 in words.

Find the sum or difference.

29. $4.3 + 8.9$

30. $15.6 - 7.7$

31. $9.41 - 5.4$

32. $0.0125 + 0.137$

33. $\frac{11}{24} + \frac{7}{24}$

34. $\frac{2}{5} + \frac{7}{20}$

35. $8\frac{9}{16} - 5\frac{5}{8}$

36. $15.2 + 18.71$

37. $13.1 - 7.36$

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38. $\frac{7}{9} - \frac{4}{9}$

39. $8\frac{1}{4} - 3\frac{2}{3}$

40.
$$\begin{array}{rr} 1 \text{ pt} & 6 \text{ fl oz} \\ - \quad 1 \text{ c} & 7 \text{ fl oz} \\ \hline \end{array}$$

Find the product or quotient.

41. 3×7.64

42. 4.3×0.005

43. $0.45 \div 0.09$

44. 1.9×7.2

45. $101.47 \div 3.65$

46. $1\frac{1}{5} \times 1\frac{1}{3}$

Use the distributive property to find the product.

47. $4(6 + 3.9)$

48. $6(48)$

Find the product or quotient. Use mental math

49. 21.3×100

50. 58.74×0.01

51. $715 \div 1000$

52. $0.36 \div 0.1$

53. 1.86×0.01

Find the GCF of the numbers.

54. 16, 28

55. 24, 38

56. 36, 81

57. 28, 76

Write two fractions that are equivalent to the given fraction.

58. $\frac{3}{7}$

59. $\frac{1}{9}$

Tell whether the fraction is in simplest form. If not, simplify it.

60. $\frac{7}{84}$

61. $\frac{24}{32}$

62. $\frac{9}{14}$

63. $\frac{36}{48}$

Find the LCM of the numbers.

64. 4, 18

65. 5, 6, 12

Rewrite the number as an improper fraction or mixed number.

66. $6\frac{4}{9}$

Write the decimal as a fraction or mixed number in simplest form.

67. 0.85

68. 1.12

Find the sum or difference. Write your answer in simplest form.

69. $\frac{5}{9}+\frac{1}{9}$

70. $\frac{4}{15}+\frac{2}{3}$

71. $14\frac{1}{4}-6\frac{1}{8}$

72. $3\frac{4}{7}+8\frac{6}{7}$

73. $8\frac{2}{5}-5\frac{4}{5}$

74. You went shopping with a group of friends from 11:45 A.M. until 3:20 P.M. How long were you shopping?

Find the product or quotient. Write your answer in simplest form.

75. $\frac{5}{9}\times\frac{3}{4}$

76. $3\frac{5}{7}\times 4\frac{3}{8}$

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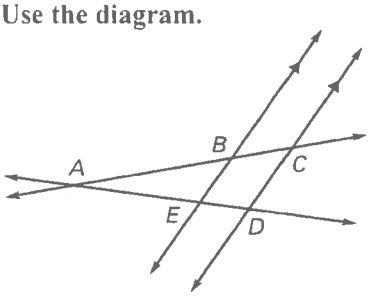
Use the diagram.



____ 105. Name $\overrightarrow{AD}$ in another way.

a. $\overrightarrow{EA}$ b. $\overrightarrow{AE}$ c. $\overrightarrow{ED}$ d. $\overrightarrow{DA}$

____ 106. Which lines are *not* intersecting in the figure?

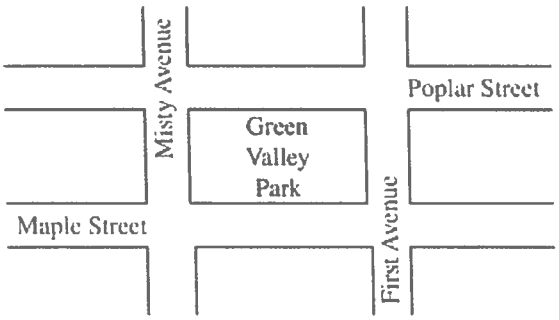
a. $\overleftrightarrow{DC}$ and $\overleftrightarrow{BA}$ b. $\overleftrightarrow{AC}$ and $\overleftrightarrow{AD}$ c. $\overleftrightarrow{CD}$ and $\overleftrightarrow{EB}$ d. $\overleftrightarrow{ED}$ and $\overleftrightarrow{BC}$

107. Name three rays in the figure.

108. Name a segment in the figure that has D as an endpoint.

109. Identify two parallel lines in the figure.

110. In the map below, Green Valley Park has a rectangular shape. What is the name of a street that is parallel to Misty Avenue? What is the name of a street that is perpendicular to Misty Avenue?



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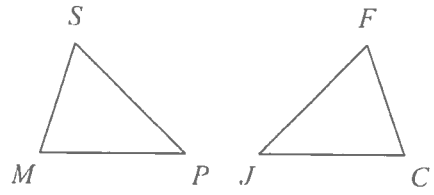
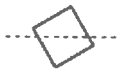
156. $\triangle CFJ$ is congruent to $\triangle MSP$. List the corresponding sides of the congruent triangles.



____ 157. Which picture shows a line of symmetry?

a. 

b. 

c. 

d. 

Find the sum or difference.

____ 158. $\frac{17}{20} - \frac{7}{12}$

a. $\frac{11}{40}$ b. $\frac{1}{24}$ c. $\frac{21}{80}$ d. $\frac{4}{15}$

159. $\frac{5}{8} + \frac{1}{10}$

160. $\frac{3}{20} + \frac{1}{5}$

161. $\frac{5}{12} - \frac{1}{6}$

162. $7\frac{13}{19} + 5\frac{5}{19}$

163. $4\frac{2}{3} + 9\frac{3}{4}$

164. $4\frac{7}{8} - \frac{5}{8}$

165. $8\frac{5}{8} - 3\frac{3}{8}$

166. $8\frac{3}{8} - 2\frac{1}{5}$

____ 167. $9\frac{1}{2} - 2\frac{1}{3}$

a. $7\frac{1}{6}$ b. 8 c. $6\frac{1}{6}$ d. $\frac{2}{31}$

Evaluate the expression.

168. $\frac{1}{4} + \frac{3}{8} - \frac{1}{3}$

169. $\frac{8}{45} \times 5$

170. $\frac{2}{9} \times \frac{7}{9}$

171. $\frac{6}{5} \times \frac{8}{9} \times \frac{15}{16}$

172. $\frac{3}{5} + \frac{1}{5} \times \frac{2}{3}$

173. $3\frac{1}{7} \times 4\frac{1}{5}$

174. $6\frac{3}{5} \times \frac{2}{5}$

175. $6 \times 2\frac{2}{3}$

176. $2\frac{1}{7} \times 35$

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177. Mark's grandmother is making two recipes for Thanksgiving. The first requires $\frac{1}{3}$ of a cup of flour, and the second requires $\frac{1}{2}$ of a cup of flour. How much flour will Mark's grandmother need to make the recipes?

178. To make an outfit for her stuffed animal, Celeste purchased $\frac{1}{4}$ yard of fabric that cost $5.98 a yard and $\frac{5}{8}$ yard of fabric that cost $11.39 a yard. How much fabric did Celeste buy?

____ 179. Marissa has $8\frac{3}{7}$ yards of material. Her new skirt will take $3\frac{7}{9}$ yards. How much material will she have left after the skirt is made?

a. $\frac{4}{7}$ yd b. $11\frac{3}{7}$ yd c. $4\frac{41}{63}$ yd d. $3\frac{7}{9}$ yd

180. Anna needed $2\frac{3}{4}$ yards of fabric for a jacket and $3\frac{5}{8}$ yards of fabric for a skirt. How many yards of fabric did she need altogether?

____ 181. Marissa has $7\frac{1}{5}$ yards of material. Her new skirt will take $3\frac{3}{7}$ yards. How much material will she have left after the skirt is made?

a. $3\frac{27}{35}$ yd b. $10\frac{22}{35}$ yd c. $5\frac{6}{7}$ yd d. $7\frac{16}{35}$ yd

182. Jamie has $9\frac{1}{4}$ yards of wire. To make a fence she will need to use $4\frac{2}{3}$ yards. How much wire will she have left after the fence is made?

183. Shelly has $6\frac{2}{5}$ yards of wire. To make a fence she will need to use $1\frac{3}{4}$ yards. How much wire will she have left after the fence is made?

Add or subtract the measures of time.

184.
$$\begin{array}{r} 5\text{ h}\ \ 23\text{ min}\ \ 9\text{ sec} \\ +\ \ 8\text{ h}\ \ 2\text{ min}\ \ 2\text{ sec} \\ \hline \end{array}$$

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Find the elapsed time.

____ 185. 1:23 P.M. to 8:53 P.M.

a. 6 h 30 min
b. 10 h 16 min
c. 10 h 30 min
d. 7 h 30 min

____ 186. 8:31 A.M. to 4:43 P.M.

a. 13 h 14 min
b. 13 h 12 min
c. 8 h 12 min
d. 7 h 12 min

187. 3:30 P.M. to 1:02 A.M.

188. You've watched 1 hour and 13 minutes of a three-hour video. How much time remains of the video?

189. Jorge took 30 minutes to get dressed and eat breakfast. He listened to music and cleaned his room for 50 minutes. He then read a book for 1 hour and 15 minutes and worked on a model for 30 minutes before going outside to play. If Jorge started at 7:15 A.M., at what time did he go out to play?

190. The first part of a plane ride lasts 4 hours and 25 minutes. The second part lasts 3 hours and 40 minutes. How much longer is the first part?

191. Calvin missed $\frac{1}{10}$ of the 60 questions. How many questions did he miss?

Evaluate the expression when $x = \frac{3}{7}$.

192. $\frac{3}{7}x$

193. A pane of glass in a green house measures $1\frac{3}{4}$ feet by $2\frac{1}{2}$ feet. What is the area of the pane of glass?

____ 194. What is the reciprocal of $\frac{6}{19}$?

a. $\frac{19}{6}$
b. $\frac{13}{19}$
c. 6
d. 19

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____ 195. What is the reciprocal of $1\frac{1}{4}$?

a. 45 b. $\frac{3}{4}$ c. $\frac{4}{5}$ d. 54

Find the quotient.

____ 196. $\frac{2}{9} \div \frac{4}{6}$

a. $\frac{4}{27}$ b. $\frac{3}{4}$ c. $\frac{1}{3}$ d. $\frac{2}{3}$

197. $\frac{11}{15} \div \frac{1}{3}$

198. $\frac{9}{25} \div 15$

199. $\frac{7}{5} \div 2$

200. $1\frac{1}{3} \div 6$

201. $\frac{2}{5} \div 1\frac{2}{3}$

202. $4\frac{3}{4} \div 5\frac{1}{4}$

203. Phillip is making necklaces. He has 20 yards of string. If Phillip cuts the string into $\frac{5}{7}$-yard pieces. how many necklaces can he make?

Find the area of the triangle.

204.