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St. Patrick Catholic School
Summer Math Packet
for rising 6th Grade Students

Dear Parents & Students,

Enclosed is a math packet which is required to be completed by students over the summer. The St. Patrick School Math Committee would like to give you some guidance on how to use this math packet.

Please note the following:

- This math packet is meant as a review of the previous year's concepts. No new material is presented here.
- The purpose of this packet is to maintain regular math practice over the summer, so it is not recommended that it be completed all at once.
- The intent is to spread the work out over a 10 week period. Answers for each week are also enclosed for the student to check his/her work and make corrections as necessary.
- Students should complete the work in a notebook or loose leaf paper making sure to label each week, box pages, and number problems, showing work and corrections as they do in class.
- Math packets and the answers will be collected the first week of school.
- If a student struggles with this packet, please let his/her teacher know.

Students may also benefit from visiting the following sites to maintain and improve math fact fluency:

- Xtramath.org
- Prodigygame.com
- IXL.com
- Math-drills.com

Multiply:

20. 644×63

[20] _____

21. $\$2.09$
 $\times 26$

[21] _____

22. 708
 $\times 27$

[22] _____

23. $\$0.03$
 $\times 72$

[23] _____

24. $\$0.07$
 $\times 51$

[A] \$223.87

[B] \$187.17

[C] \$3.57

[D] \$1.50

[24] _____

Divide:

25. $60 \overline{)840}$

[25] _____

26. $50 \overline{)55.50}$

[26] _____

Divide:

27. $10 \overline{)484}$

[27] _____

28. $60 \overline{)\$4.90}$

[A] \$0.08

[B] \$10.82

[C] \$1.08

[D] \$0.82

[28] _____

Multiply:

29. $\begin{array}{r} 137 \\ \times 819 \\ \hline \end{array}$

[29] _____

30. $\begin{array}{r} 247 \\ \times 178 \\ \hline \end{array}$

[30] _____

31. $\begin{array}{r} 803 \\ \times 835 \\ \hline \end{array}$

[A] 670,605

[B] 670,505

[C] 669,405

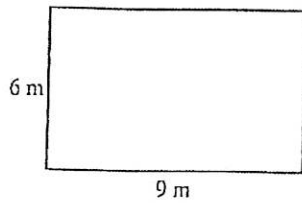
[D] 670,495

[31] _____

32. Find the product of 981 and 509.

[32] _____

51. What is the area of this rectangle?



[51] _____

52. Estimate the area of a room that is 16 ft 7 in. long and 9 ft 7 in. wide.

[A] 144 ft²

[B] 170 ft²

[C] 153 ft²

[D] 160 ft²

[52] _____

53. Add: 9.73

+ 4.1

[53] _____

54. Subtract: 7.72

- 5.1

[54] _____

55. Add: 10

15.47

+ 14.3

[55] _____

56. In a three-person medley relay race, the 100-meter leg was run in 9.99 seconds, the 200-meter leg in 20.53 seconds, and the 400-meter leg in 45.79 seconds. What was the total time for the race?

[A] 76.31 sec

[B] 77.31 sec

[C] 76.41 sec

[D] 25.44 sec

[56] _____

Multiply:

57. $\frac{1}{7} \times \frac{5}{9}$

[57]

58. $\frac{7}{9} \times \frac{7}{9}$

[58]

Reduce:

70. $6\frac{4}{20}$

[70]

71. Solve. Reduce your answer: $6\frac{11}{14} - 2\frac{5}{14}$

[A] 62

[B] $9\frac{1}{7}$

[C] $4\frac{3}{7}$

[D] $\frac{7}{8}$

[71]

72. Find the greatest common factor of 48 and 8.

[72]

73. What is the greatest common factor of 20 and 30?

[73]

74. What is the greatest common factor of 40 and 8?

[74]

79. Find the mean of the data set 82, 78, 89, 89, 80, 89, 89, and 84.

[79] _____

80. Tom's last nine golf scores on a par-72 course were 76, 75, 87, 84, 75, 75, 83, 88, and 86. Find the median of the set of data.

[80] _____

81. A high school English instructor returned graded essays to 8 students in a sophomore English class. The students had the following scores: 47, 42, 41, 71, 71, 71, 64, 51, and 47. Find the (a) range and (b) mode of this set of scores.

[81] _____

Solve. Reduce your answer:

94. $\frac{1}{8} \times \frac{2}{9}$

[A] $\frac{1}{24}$

[B] $\frac{3}{17}$

[C] $\frac{1}{36}$

[D] $\frac{16}{9}$

[94] _____

Solve. Simplify your answer:

95. $6 \times \frac{1}{4}$

[95] _____

96. $2\frac{4}{6} + 3\frac{3}{6}$

[96] _____

97. Simplify: $\frac{10}{8}$

[97] _____

98. Solve. Simplify your answer: $6\frac{6}{12} + 8\frac{9}{12}$

[A] $15\frac{1}{4}$

[B] $16\frac{1}{3}$

[C] $16\frac{1}{4}$

[D] $15\frac{1}{3}$

[98]

Divide:

99. $42\overline{)896}$

[99]

Divide:

100. $18\overline{)216}$

[100]

101. $24\overline{)965}$

[101]

102. $23\overline{)444}$

[A] 19 R7

[B] 18 R8

[C] 26

[D] 7 R20

114. The Evergreen Warriors had a record of 45 wins and 35 losses. What was the ratio of wins to losses?

[114] _____

115. Sarah sold 10 tickets to the school play, and Maria sold 24 tickets. What is the ratio of the number of tickets Sarah sold to the number of tickets Maria sold?

[115] _____

116. Ms. Strauss fills gum and trinket machines in front of grocery stores. In the trinket machine, there are two types of trinkets—necklaces and rings. If Ms. Strauss puts 20 necklaces and 36 rings in a machine, what is the ratio of rings to all the trinkets in the machine?

[A] $\frac{14}{9}$

[B] $\frac{9}{14}$

[C] $\frac{5}{9}$

[D] $\frac{9}{5}$

[116] _____

117. Add: $61 + 11.31 + 13.3$

[117] _____

118. Subtract: $36 - 2.3$

[118] _____

Add:

119. $7 + 29.15$

[119] _____

120. $15 + 11.34 + 13.4$

[A] 39.74

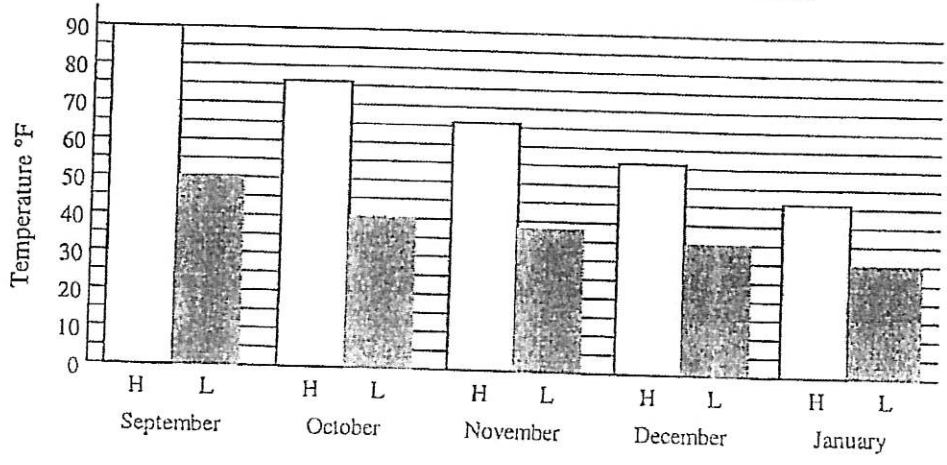
[B] 39.38

[C] 39.97

[D] 39.85

[120] _____

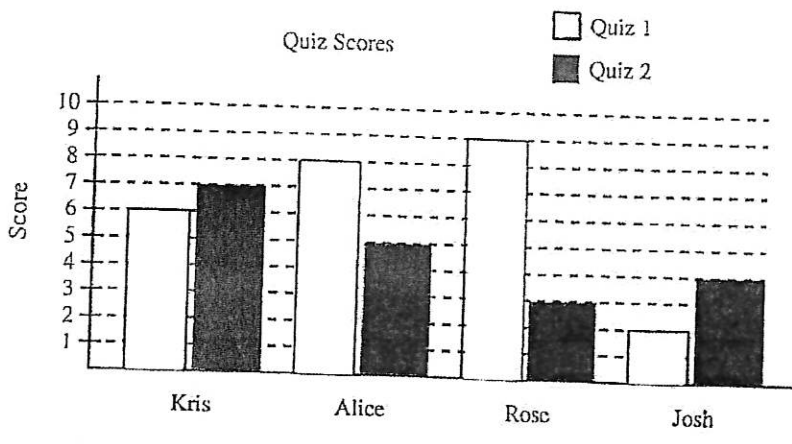
103. Ms. Schultz's class kept a record of the highest and lowest temperatures in each of five months. What was the lowest temperature recorded in the five months?



[103]

104. Kris, Alice, Rose, and Josh each take two quizzes. Each quiz has ten questions. The scores on the quizzes are shown in the table below.

- (a) Who scores lowest on Quiz 1?
- (b) Who scores highest on Quiz 2?



- [A] (a) Kris
(b) Alice
- [B] (a) Kris
(b) Kris
- [C] (a) Josh
(b) Alice
- [D] (a) Josh
(b) Kris

Subtract:

121. $8 - 0.36$

[121] _____

122. $8.5 - 1$

[122] _____

123. $0.7 - 0.22$

[123] _____

124. $0.5 - 0.27$

[A] 0.73

[B] 0.21

[C] 0.23

[D] 0.31

[124] _____

$$\begin{array}{r} 38 \\ \times 55 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ \times 93 \\ \hline \end{array}$$

$$\begin{array}{r} 86 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} 96 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 76 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 28 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 99 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ \times 92 \\ \hline \end{array}$$

Answer Key

20. 40,572
21. \$54.34
22. 19,116
23. \$2.16
24. C \$3.57
25. 14
26. \$0.11
27. 48 R4
28. A \$0.08
29. 112,203
30. 43,966
31. B 670,505
32. 499,329
51. 54 m²
52. B 170 ft²
53. 13.83
54. 2.62
55. 39.77
56. A 76.31 sec

57. $5/63$
58. $49/81$
70. $6 \frac{1}{5}$
71. C $4 \frac{3}{7}$
72. 8
73. 10
74. 8
79. 85
80. 83
81. a) 30 b) 71
94. C $1/36$
95. $1 \frac{1}{2}$
96. $6 \frac{1}{6}$
97. $1 \frac{1}{4}$
98. A $15 \frac{1}{4}$
99. 21 R14
100. 12
101. 40 R5
102. A 19 R7
103. 30°F

104. D a) Josh b) Kris

114. 9/7

115. 5/12

116. B 9/14

117. 85.61

118. 33.7

119. 36.15

120. A 39.74

121. 7.64

122. 7.5

123. 0.48

124. C 0.23

$$\begin{array}{r} 38 \\ \times 55 \\ \hline 190 \\ 1900 \\ \hline 2090 \end{array}$$

$$\begin{array}{r} 43 \\ \times 26 \\ \hline 258 \\ 860 \\ \hline 1118 \end{array}$$

$$\begin{array}{r} 28 \\ \times 63 \\ \hline 84 \\ 1680 \\ \hline 1764 \end{array}$$

$$\begin{array}{r} 45 \\ \times 63 \\ \hline 135 \\ 2700 \\ \hline 2835 \end{array}$$

$$\begin{array}{r} 80 \\ \times 46 \\ \hline 480 \\ 3200 \\ \hline 3680 \end{array}$$

$$\begin{array}{r} 86 \\ \times 47 \\ \hline 602 \\ 3440 \\ \hline 4042 \end{array}$$

$$\begin{array}{r} 83 \\ \times 21 \\ \hline 83 \\ 1660 \\ \hline 1743 \end{array}$$

$$\begin{array}{r} 69 \\ \times 93 \\ \hline 207 \\ 6210 \\ \hline 6417 \end{array}$$

$$\begin{array}{r} 86 \\ \times 49 \\ \hline 774 \\ 3440 \\ \hline 4214 \end{array}$$

$$\begin{array}{r} 96 \\ \times 38 \\ \hline 768 \\ 2880 \\ \hline 3648 \end{array}$$

$$\begin{array}{r} 61 \\ \times 50 \\ \hline 3050 \end{array}$$

$$\begin{array}{r} 85 \\ \times 42 \\ \hline 170 \\ 3400 \\ \hline 3570 \end{array}$$

$$\begin{array}{r} 76 \\ \times 24 \\ \hline 304 \\ 1520 \\ \hline 1824 \end{array}$$

$$\begin{array}{r} 24 \\ \times 28 \\ \hline 192 \\ 480 \\ \hline 672 \end{array}$$

$$\begin{array}{r} 64 \\ \times 99 \\ \hline 576 \\ 5760 \\ \hline 6336 \end{array}$$

$$\begin{array}{r} 61 \\ \times 92 \\ \hline 122 \\ 5490 \\ \hline 5612 \end{array}$$