

June, 2024

Dear TCA 6th grade students,

This packet is your summer math work for entering the 6th grade. To receive full credit, you must show all of your work on the page. If there is not enough room, you can use a separate piece of paper and include it with your work. All work should be done in pencil and be neat enough to read. Be sure that you read the directions before starting the problems.

If you have trouble working on the problems, you can look at online resources or ask a parent or friend for help. Some good online resources are: mathisfun.com, khanacademy.com, and purplemath.com.

This work should be spread out over the summer. This math packet is due the first day of school. It will count as a quiz grade.

Have a great summer!

Ms. Coughlin

<p>1. Sarah paid \$30 dollars for two books. One book cost \$7 more than the other. How much did each book cost?</p>	<p>2. Michael is 5 years younger than his sister Elena. The sum of their ages is 21. How old is Michael?</p>
<p>3. Write the number in standard form: two hundred five million, thirty-six thousand, eight hundred.</p>	<p>4. Write the number in word form: 23,006,507.</p>
<p>5. Write the fraction as a decimal: $\frac{5}{1000}$</p>	<p>6. Write the fraction as a decimal: $\frac{48}{100}$</p>
<p>7. Compare the numbers (using >, <, or =) 346,289 346,312</p>	<p>8. Compare the numbers (using >, <, or =) 0.54 0.064</p>
<p>9. Round to the tenths place. 47.38</p>	<p>10. Round to the hundreds place. 628,829</p>

<p>11.</p> $\begin{array}{r} 9367 \\ + 2324 \\ \hline \end{array}$	<p>12.</p> $\begin{array}{r} 3252 \\ + 374 \\ \hline \end{array}$
<p>13.</p> $\begin{array}{r} 2568 \\ - 1493 \\ \hline \end{array}$	<p>14.</p> $\begin{array}{r} 300 \\ - 74 \\ \hline \end{array}$
<p>15. Fill in multiplication pattern.</p> $5 \times 7 = \underline{\hspace{2cm}}$ $50 \times 7 = \underline{\hspace{2cm}}$ $500 \times 7 = \underline{\hspace{2cm}}$ $5000 \times 7 = \underline{\hspace{2cm}}$	<p>16. Fill in multiplication pattern.</p> $3 \times 60 = \underline{\hspace{2cm}}$ $30 \times 60 = \underline{\hspace{2cm}}$ $300 \times 60 = \underline{\hspace{2cm}}$ $3000 \times 60 = \underline{\hspace{2cm}}$
<p>17.</p> $\begin{array}{r} 45 \\ \times 26 \\ \hline \end{array}$	<p>18.</p> $\begin{array}{r} 7062 \\ \times 15 \\ \hline \end{array}$
<p>19.</p> $\begin{array}{r} 238 \\ \times 124 \\ \hline \end{array}$	<p>20. Charlie baked four dozen cupcakes and sold each one for \$2. How much money did he make?</p>

<p>21. Fill in the division pattern.</p> $25 \div 5 = \underline{\quad}$ $250 \div 5 = \underline{\quad}$ $2500 \div 5 = \underline{\quad}$ $25000 \div 5 = \underline{\quad}$	<p>22. Divide. Show your work. There is no remainder.</p> $3 \overline{) 405}$
<p>23. Divide. There is no remainder.</p> $15 \overline{) 5280}$	<p>24. Divide. There is a remainder.</p> $2 \overline{) 97}$
<p>25. Divide. There is a remainder.</p> $4 \overline{) 1265}$	<p>26. Divide. There is a remainder.</p> $50 \overline{) 8793}$
<p>27. List all of the factors of 18. (A factor of 18 is a number that you can multiply by another number to get 18)</p>	<p>28. List all of the factors of 15.</p>

<p>29. Find the common factors of 8 and 10. Then say which is the GCF (greatest common factor).</p>	<p>30. Find all of the common factors of 15 and 30. Then say which is the GCF (greatest common factor).</p>
<p>31. Write the first ten multiples of 6.</p>	<p>32. Write the first ten multiples of 8.</p>
<p>33. Find the least common multiple of 6 and 8. (The smallest multiple that they both have).</p>	<p>34. Find the least common multiple of 4 and 10.</p>
<p>35. Write the fraction in simplest form.</p> $\frac{4}{30}$	<p>36. Write the fraction in simplest form.</p> $\frac{6}{18}$
<p>37. Write as a mixed number.</p> $\frac{23}{5}$	<p>38. Write as an improper fraction.</p> $3\frac{5}{7}$

<p>39. Add and write answer as a mixed number.</p> $\frac{8}{11} + \frac{6}{11}$	<p>40. Add and write answer as a mixed number.</p> $\frac{7}{12} + \frac{3}{4}$
<p>41. $3\frac{2}{4} + 1\frac{1}{4}$</p>	<p>42. $5\frac{1}{6} + 2\frac{5}{18}$</p>
<p>43. $\frac{13}{17} - \frac{5}{17}$</p>	<p>44. $\frac{4}{5} - \frac{12}{25}$</p>
<p>45. $6\frac{8}{9} - 2\frac{4}{9}$</p>	<p>46. $17\frac{20}{21} - 5\frac{2}{3}$</p>
<p>47. Simplify your answer if possible.</p> $\frac{2}{7} \times \frac{2}{3}$	<p>48. Simplify your answer if possible.</p> $\frac{5}{8} \times \frac{2}{4}$

49. Write mixed numbers as improper fractions before multiplying. Simplify and write answer as mixed number if possible.

$$2\frac{1}{3} \times \frac{3}{4}$$

50. Write mixed numbers as improper fractions before multiplying. Simplify and write answer as mixed number if possible.

$$5\frac{1}{2} \times 5$$

51. Write the reciprocal of each number.

$$\frac{3}{7}$$

$$2\frac{1}{3}$$

$$5$$

52. Divide using the rule: keep, switch, flip.

$$\frac{4}{5} \div \frac{1}{2}$$

53. Write whole number as fraction and then divide using the rule: keep, switch, flip.

$$\frac{2}{3} \div 6$$

54. Write the mixed number as a fraction and then divide using the rule: keep, switch, flip.

$$2\frac{1}{2} \div \frac{4}{9}$$

<p>55. If a bag contains: 3 red marbles, 2 blue marbles, 4 green marbles, and 1 orange marble. What is the probability of grabbing a green marble?</p>	<p>56. Tim has 3 dimes, 2 nickels, and 4 pennies in his pocket. If he picks a coin at random, what is the probability that the coin he picks is worth exactly 5 cents.</p>
<p>57. If Jenelle spent \$5.35 on a book and \$1.20 on a pen, how much money did she spend in total?</p>	<p>58. Kristen had \$20 to go shopping. She spent \$8.35. How much money does she have left?</p>
<p>59. $72.3 + 5.46$</p>	<p>60. $83.54 - 3.38$</p>
<p>61. $0.248 + 23.97$</p>	<p>62. $5.4 - 3.28$</p>

63. 5.64×0.03	64. 12.6×9
65. 0.045×6.8	66. 2.73×34.1
67. $4 \overline{) 3.2}$	68. $3 \overline{) 13.89}$
69. $12 \overline{) 40.8}$	70. $5 \overline{) 2.375}$

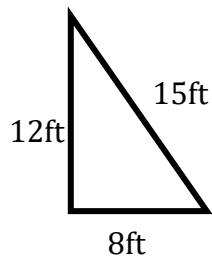
71. $4\overline{)93.5}$

72. $3\overline{)7.3}$

73. The length of a rectangle is 5 ft. The width is 6 ft. What is the perimeter of the rectangle?

74. The length of a rectangle is 11 cm. The width of the rectangle is 7 cm. What is the area of the rectangle?

75. Find the area of the triangle.



76. The length of a rectangle is 17 ft. The width is 8ft. What is the area of the rectangle?