SUMMER MATH PACKET FOR STUDENTS RISING TO 6th and 7th GRADE

Provided by Cox Math Tutoring

Directions: Complete the following problems without the use of a calculator, unless the problem is accompanied by a calculator icon: 🖩 .

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1.   Evaluate the expressions.

1.1. $21 \div 3 + (3 \times 9) \times 9 + 5$

1.5. $4 \times 5 + (14 + 8) - 36 \div 9$

1.2. $18 \div 6 \times (4 - 3) + 6$

1.6. $(28 \div 4) + 3 + (10 - 8) \times 5$

1.3. $14 - 8 + 3 + 8 \times (24 \div 8)$

1.7. $12 - 5 + 6 \times 3 + 20 \div 4$

1.4. $4 \times 5 + (14 + 8) - 36 \div 9$

1.8. $36 \div 9 + 48 - 10 \div 2$

2.   Write numeric expressions for these phrases:

2.1.   Divide 4 by 8 then add 3.

2.2.   Divide 4 by the sum of 8 and 3

2.3.   From 20, subtract the product of 8 and 2

2.4.   From 20, subtract 8 and multiply by 2.

2.5.   The product of 3 and 2 added to the quotient of 6 and 2

2.6.   Add 6 to the product of 3 and 2, then divide by 2

3.   Find each sum or difference.

3.1. $3.30 + 2.65 =$

3.2. $8.97 + 66 =$

3.3. $100 - 0.22 =$

3.4. $15.4 - 8 =$

3.5. $3 - 2.54 = 1301 - 5.6 =$

3.6. $1.34 + 4.1 =$

3.7. $448 + 1.75 + 80.3 =$

4.   Find each product.

4.1. $2.15 \times 8.3 =$

4.4. $0.8 \times 0.11 =$

4.2. $23 \times 0.47 =$

4.5. $0.51 \times 4.2 =$

4.3. $168 \times 2.25 =$

4.6. $4.9 \times 0.3 =$

5.   Find each quotient.

5.1. $269.12 \div 8 =$

5.3. $2,229.62 \div 46 =$

5.2. $311.56 \div 4 =$

5.4. $1449.09 \div 81 =$

6.   **Round each number to the nearest hundred.**

6.1.   124

6.2.   2,311

6.3.   48

7.   **Circle the number that has a 4 in the tens place.**   1,324   4,321   49

8.   **Circle the number that has a 5 in the tenths place.**   36.05   41.5   15.38

9.   **Which of the following groups of numbers is in order from least to greatest?**
a.   323, 411, 421, 506
b.   98, 94, 36, 29
c.   108, 106, 217, 304
d.   200, 199, 198, 405

10.   **Which of the following groups of numbers is in order from least to greatest?**
a.   0.312, 0.411, 0.601, 0.806
b.   10.8, 10.6, 3.17, 40.4
c.   0.88, 0.84, 0.76, 0.49
d.   5.00, 3.19, 1.98, 0.755

11.   **Find each sum or difference.**

11.1. $\frac{1}{2} + \frac{2}{2} =$ 11.4. $\frac{1}{2} + \frac{1}{3} =$

11.2. $\frac{11}{12} - \frac{5}{6} =$ 11.5. $\frac{3}{8} - \frac{1}{6} =$

11.3. $\frac{3}{7} + \frac{2}{7} =$

12.   **Find each product. Simplify if possible**

12.1. $\frac{6}{8} \times \frac{1}{3}$ 12.2. $\frac{5}{5} \times \frac{7}{10}$

12.3. $\frac{4}{5} \times \frac{3}{8}$

12.4. $\frac{4}{9} \times \frac{1}{2}$

13.   Find the sum.

13.1. $5\frac{3}{5} + \frac{3}{10}$

13.2. $8\frac{5}{8} + 1\frac{5}{12}$

13.3.   In 2001, the men's indoor pole vault record was $20\frac{1}{6}$ feet. The women's record for the indoor pole vault was $15\frac{5}{12}$ feet. What is the combined weight of the two records?

13.4.   How high is a stack of library books if one book is $1\frac{3}{8}$ inches high, the second book is $1\frac{5}{6}$ inches high, and the third book is $2\frac{1}{3}$ inches high?

14.   Find the difference.

14.1. $2\frac{2}{3} - 1\frac{1}{4} =$

14.3. $2\frac{1}{3} - 1\frac{2}{3} =$

14.2. $4\frac{3}{4} - 4\frac{2}{5} =$

14.4. $5\frac{1}{3} - 2\frac{5}{8} =$

15.   Plot, and label, the given points on the coordinate plane.

15.1. $A(3, 5)$
15.2. $B(-2, -1)$
15.3. $C(8, 0)$
15.4. $D(-6, 2)$
15.5. $E(4, -5)$
15.6. $F(0, -4)$