1.7 Chan

1.7 Challenge Pr. w/ Multipl.

Name ____

1. Find the value of the expression.

$$\frac{7+8+9}{2+3+4} \cdot \frac{6+9+12}{9+8+7}$$

2. What units digit a will make the addition problem correct?

$$\begin{array}{r} 23a \\ 524 \\ + 36a \\ \hline 1124 \end{array}$$

3. What is the sum of the digits a and b in the following multiplication problem?

$$\begin{array}{c} & b\,3\,a\,1 \\ \times & b\,4 \\ \hline & 9\,4\,0\,4 \\ + & 4\,7\,0\,b\,0 \\ \hline & a\,6\,4\,b\,4 \end{array}$$

- 4. Evaluate $234 \cdot 997 233 \cdot 997$.
- 5. Select three different numbers from the set $\{2,3,5,7,9\}$ and place one in each box. What is the greatest possible product, expressed as a common fraction?

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6. In the addition problem shown, whole numbers less than 10 are missing from the boxes. If the problem is done correctly, what is the sum of the numbers in these boxes?

$$\begin{array}{c} \Box 6\, 3 \\ 7\Box 2 \\ + \ 5\, 8\Box \\ \hline \Box 0\, 4\, 2 \end{array}$$

7. In the multiplication shown, each letter represents a different digit. What digit does the letter C represent?

$$\begin{array}{c} ABCDE \\ \times EDADE \end{array}$$

- 8. Find the smallest two-digit number that is twice the product of its digits.
- 9. In the division problem, the letters A, B, C, D, and E represent five different digits. Find the digit represented by C.

10. In the multiplication shown, each * represents a digit. What is the sum of all possible products?

$$\begin{array}{c}
2 * \\
\times * 7 \\
\hline
* * * \\
\end{array}$$

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- 11. If you begin counting two consecutive whole numbers each second, starting on January 1, 2000, at 12:00 am, in what year will you reach 1 billion?
 12. Compute without using a calculator: 26(64) 24(64).
- 13. Compute using a calculator and try to use a simpler method: (654,321)(654,321) (654,326)(654,316).

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Grade 7 Hon Prep Work 1.7 Challenge Pr. w/ Multipl. Mr. Young 2017-03-27

Answer List

1		3	

4. 997

7. 4

10. 4232

13. 2015

2. 5

5. $\frac{3}{2}$

8. 36

11. 2015

3. 7

6. 24

9. 8

12. 2015

Catalog List

1. MCC AI 187

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