Seventh Grade Summer Work Packet

Hoping to minimize summer learning loss!

Complete all the problems on the first six pages of the packet. I recommend that you work on these a few at a time over the course of the summer.

A few days before school starts complete the problems in the “Entry-Level Assessment”. Some of these may be difficult. Really try to figure them out but if you can’t, don’t panic. The “Entry-Level Assessment” will act as a self-assessment to give you and me an idea of what we need to go over before we launch into the curriculum.

The packet is due on the first day of school. It will be counted as a project in your grade for the first quarter.
Chapter 1

Write each number in words.

7,600.56

Write each number in standard form.

fifty hundredths
twenty one thousand and 64 thousandths

Use front-end estimation to estimate the sum. 7.821 + 9.91

Round each number to the nearest tenth.

0.1257

First estimate, then find each sum or difference.

53 + 17 + 26

You have one $10 bill and two quarters. You want to buy all of the items on the list at the right. Can you afford to buy the hair gel? Explain.

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>hairbrush</td>
<td>$4.59</td>
</tr>
<tr>
<td>comb</td>
<td>$0.42</td>
</tr>
<tr>
<td>hair gel</td>
<td>$2.99</td>
</tr>
<tr>
<td>shampoo</td>
<td>$2.45</td>
</tr>
</tbody>
</table>

Find each product or quotient.

30 × 1.54

10.8 ÷ 0.8
Evaluate each expression.

\[8 \times 6 \div 2\]
\[16 - 6 \div 6\]

**Solve.**

One batch of dough makes 15 ornaments. How many ornaments can be made with 2.8 batches of dough?

One pound of grapes costs $1.29. To the nearest cent, how much will 4.2 pounds of grapes cost?

Nolan finishes a 3.5-mile race in 21 minutes. Nolan waited for Ben at the finish line for 5 minutes. Laura had finished the race 7 minutes ahead of Ben. How long did it take Laura to run the race?

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**Chapter 2**

Write an expression to describe the relationship in this number pattern: 5, 13, 21, 29, …

Evaluate each expression.

\[4x - 7 \text{ for } x = 10\]
\[h + (h \times 3) \text{ for } h = 4\]

**Solve each equation.**

\[13 = 9 + y\]
\[30 = k \div 3\]

Annie agreed to wash the car each week if she could get paid $.01 the first week, $.02 the second week, $.04 the third week, $.08 the fourth week, and so on for 15 weeks. How much money will she be paid on the 15th week?

Explain why \((2 + 3) \times 4\) is not equal to \(2 + 3 \times 4\).
Chapter 3

State whether each number is divisible by 2, 3, 5, 9, or 10.

32,715

Which of these numbers is prime? 53; 65; 72; 365; 3,411

Find the prime factorization of each number using a factor tree.

630

Find the GCF of each pair of numbers.

65 and 195

42 and 63

Write each expression using an exponent. Name the base and the exponent.

$5 \times 5 \times 5 \times 5$

$a \times a \times a$

Simplify each expression.

$10 - (4 - 2)^3$

Simplify each expression by combining like terms.

$4x + 3x + 10x$

Find the LCM for each set of numbers.

8 and 10

Use the Distributive Property to simplify each expression.

$14 - 2(5 + 10c)$