Name: _____ Date: _____

UNIT 2 MULTIPLICATION & DIVISION
STUDY GUIDE

1. Write numbers in **expanded notation**.

   a) 3,456 = 3,000 + 400 + ___ + ___ *b) 5,469 = _____*

2. Write numbers in **super-expanded notation**.

   a) 3,465 = (3 x 1,000) + _____ + (5 x 10) + _____

   b) 4,835 = _____

3. Write numbers in **exponential notation**.

   a) 3,456 = (3 x 10^3) + _____ + (5 x 10^1) + (6 x 10^0)

   b) 7,469 = _____

4. Multiply and divide by **powers of 10.**

   a) 5 x 10^5 = _____ *b) 3 x 4 x 10^4 = _____*

   c) 10 times as much as 50 is _____ *d) 1/10 of 4,000 is _____*

5. Multiply by 1-digit and 2-digit numbers using the **partial quotients** method.

   a) 6 x 345 *b) 52 x 85*

6. Multiply by 1-digit and 2-digit numbers using the **standard algorithm**.

   a) 4 x 463 *b) 88 x 72*

7. Multiply 3-digit numbers by 3-digit numbers using the **standard algorithm**.

   a) 578 x 124

8. Easily recall basic multiplication facts to determine **extended multiplication and division facts.**

   a) 30 x 500 *b) 400 x 90* *c) 720 ÷ 80* *d) 4,800 ÷ 60*

9. Divide 3-digit and 4-digit numbers by one-digit numbers using the **partial quotients method**.

   a) 555 ÷ 8 *b) 3,472 ÷ 4*

10. Divide 3-digit and 4-digit numbers by 2-digit numbers using a "**menu of multiples**" and the **partial quotients method**.

    a) 486 ÷ 16 *b) 2,295 ÷ 37*

11. Solve **multiplication and division number stories** using a number sentence to represent the problem, and don't forget units in the answer.

    a) Tay bought 12 cartons of juice boxes. Each carton contains 24 juice boxes. How many juice boxes does Tay have in all?

    Number sentence: _____

    Answer: _____

12. Determine what to do with a **remainder** (**ignore it, round the quotient up, or write it as a fraction or decimal**) when solving number stories.

    a) There were 456 kids traveling on a camping trip. 20 kids could fit in a vans. How many vans were needed to transport all of the kids?

    b) Don raised $758 for charity. He will divide the money equally among 4 charities. How much does each charity receive?