Directions: Answer the following question(s).

1 What is the value of the expression below?

$(5 + 4) \times 7 - 3$

A. 30

B. 36

C. 60

D. 137

2 David wrote the expression below.

$$100 - 17 - 4 \times 3 + 12$$

David wants 3 + 12 to be the first operation completed when he evaluates the expression. Which expression shows that 3 + 12 should be completed first?

A. $100 - (17 - 4) \times 3 + 12$

B. $(100 - 17) - 4 \times 3 + 12$

C. $100 - 17 - (4 \times 3) + 12$

D. $100 - 17 - 4 \times (3 + 12)$

3 Which of the following expressions has the highest value?

A. $(4 \div 4 + 4) \times 4$

B. $(4 \div 4) \times (4 + 4)$

C. $(4 + 4 \times 4) \div 4$

D. $(4 \times 4) + (4 \div 4)$

4 Look at the two expressions.

$$5 \times 3 + 4 - 1$$
$$5 \times (3 + 4) - 1$$

Is the value of each expression the same? Explain why or why not. Be sure to include the value of each expression in your explanation.

Directions: Answer the following question(s).

5 Read the problem.

Samantha made 6 batches of chocolate cookies and 4 batches of peanut butter cookies. If each batch makes one dozen cookies, how many cookies did she make in all?

Which expression should you use to solve this problem?

A. $6 + 4$

B. $6 + 4 + 12$

C. 6×12

D. $(6 + 4) \times 12$

6 Which phrase means the same as the expression $8 - 6 \div 2$?

A. 6 divided by 2 and then subtracted from 8

B. 6 subtracted from 8 and then divided by 2

C. 8 subtracted from the quotient of 6 and 2

D. the quotient of the difference of 6 and 8 and 2

7 Which statement describes the value of the expression $3 \times (15{,}436 + 783)$?

A. The value is 3 times as large as the product of 15,436 and 783.

B. The value is 3 times as large as the sum of 15,436 and 783.

C. The value is 783 more than the product of 3 and 15,436.

D. The value is 15,436 more than the product of 3 and 783.

8 What number has a place value of 6 that is 100 times the place value of 6 in 2,386?

A. 14.06

B. 2,486

C. 14,693

D. 76,504

Directions: Answer the following question(s).

9 Ms. Boyd writes the following number on chart paper:

245,319

Write a number in which the values of the digit 2 and the digit 3 are each 10 times the values of the digit 2 and the digit 3 in Ms. Boyd's number.

10 Cole wrote the number shown.

375,819

Lindsay used the same digits to write a number in which the value of the digit 7 is $\frac{1}{10}$ of the value of the digit 7 in Cole's number. Which number can be the one Lindsay wrote?

A. 357,819
B. 375,918
C. 581,793
D. 785,839

11 Solve.

4×10^4

A. 40
B. 4000
C. 40,000
D. 400,000

Directions: Answer the following question(s).

12 What is the value of the expression below?

$$700 \times 10^2$$

A. 70,000
B. 7,000
C. 700,000
D. 700

13 Multiply:

$15 \times 77 =$

A. 105
B. 210
C. 1,155
D. 3,135

14 Multiply:

$454 \times 22 =$

A. 476
B. 1816
C. 9988
D. 10,000

15 There are 78 sheets on a roll of paper towels. If there are 16 rolls in a package, how many sheets are in a package of paper towels?

A. 1278
B. 1248
C. 1208
D. 748

Directions: Answer the following question(s).

16 A cake is cut into 16 equally-sized pieces. If each piece of cake has 235 calories, how many calories are there in the whole cake?

A. 3760
B. 3730
C. 3660
D. 3630

17 A multiplication problem is shown below.

$$\begin{array}{r} 247 \\ \times\ 65 \\ \hline 1235 \\ +\ 1482 \\ \hline 15,055 \end{array}$$

How were the numbers 1,235 and 1,482 found, and why aren't they lined up so that the first 1 is directly above the second 1? Explain your answer.

18 $146 \div 4$

A. 36 R 2
B. 37
C. 38 R 2
D. 46 R 2

19 What is the answer to the division problem below?

$5{,}040 \div 24 =$ ___

A. 21
B. 210
C. 251
D. 1,920

Directions: Answer the following question(s).

20 Natalia's family only uses their car on weekends to run errands. They drive the same route every weekend to go shopping and visit friends. After 12 weeks, the family rode 276 miles in their car. How many total miles must Natalia's family drive every weekend?

A. 12
B. 23
C. 28
D. 39

21 Mrs. Carroll’s garden has a total of 448 flowers arranged with 28 flowers in each row. How many rows are there in Mrs. Carroll’s garden?

A. 10
B. 12
C. 16
D. 19

22 Shell Bakery makes 384 cookies every Saturday to sell. The bakery sells the cookies in packages of 12 cookies.

Part A:
How many 12 count packages of cookies can be made from 384 cookies?

Part B:
If each package sells for $9, how much money will the bakery make selling all of the packages?