



6th Online Learning #2 MATH

Subject: Mathematics

State: Ohio

Student Name: _____

Teacher Name: _____

School Name: _____

1 Yari was doing the long division problem shown below. When she finishes, her teacher tells her she made a mistake.

Find Yari's mistake. Explain it to her using at least 2 complete sentences. Then, re-do the long division problem correctly.

$$\begin{array}{r} 13313 \text{ R}0 \\ 18 \overline{) 24192} \\ \underline{-18} \\ 61 \\ \underline{-54} \\ 79 \\ \underline{-54} \\ 25 \\ \underline{-18} \\ 72 \\ \underline{-72} \\ 0 \end{array}$$

2 Use the computation shown below to find the products. Explain how you found your answers.

$$\begin{array}{r} 189 \\ 16 \overline{)3024} \\ \underline{16} \\ 142 \\ \underline{128} \\ 144 \\ \underline{144} \\ 0 \end{array}$$

(a) 189×16

(b) 80×16

(c) 9×16

3 Solve.

$$34,992 \div 81 = ?$$

4 The total amount of money collected by a store for sweatshirt sales was \$10,000. Each sweatshirt sold for \$40.

What was the total number of sweatshirts sold by the store?

(A) 100

(B) 220

(C) 250

(D) 400

5 Justin divided 403 by a number and got a quotient of 26 with a remainder of 13. What was the number Justin divided by?

(A) 13

(B) 14

(C) 15

(D) 16

6 What is the quotient of $13,632 \div 48$?

(A) 262 R36

(B) 272

(C) 284

(D) 325 R32

7 What is the result when 75,069 is divided by 45?

8 What is the value of $63,106 \div 72$?

Write your answer below.

9 Divide.

$$21,900 \div 25$$

Write the exact quotient below.

10 The manager of a bookstore ordered 480 copies of a book. The manager paid a total of \$7,440 for the books.

The books arrived at the store in 5 cartons. Each carton contained the same number of books.

A worker unpacked books at a rate of 48 books every 2 minutes. The manager unpacked books at a rate of 54 books every 3 minutes.

How many books were in each carton?

11 A theater has a total of 750 seats.

- There are 30 rows of seats in the theater.
- Each row has the same number of seats.

What is the total number of seats in each row of the theater?

(A) 21

(B) 23

(C) 25

(D) 27

12 Divide.

$$31,616 \div 52$$

- 13 (a) List all the multiples of 8 that are less than or equal to 100.
- (b) List all the multiples of 12 that are less than or equal to 100.
- (c) What are the common multiples of 8 and 12 from the two lists?
- (d) What is the least common multiple of 8 and 12?
- (e) Lyle noticed that the list of common multiples has a pattern. Describe a pattern in the list of numbers that Lyle might have seen.

- 14 (a) List all the factors of 48.
- (b) List all the factors of 64.
- (c) What are the common factors of 48 and 64?
- (d) What is the greatest common factor of 48 and 64?

15 Alice and Carl each have the same total number of marbles.

Alice put her marbles into groups of 4 with none left over.

Carl put his marbles into groups of 10 with none left over.

What is the **least** total number of marbles that Alice and Carl can each have?

(A) 16

(B) 20

(C) 32

(D) 40

16 What is the greatest common factor of 16 and 48?

17 Carmen has two pieces of wire that measure 24 and 36 feet long. She wants to cut each of them into smaller pieces of wire that are all equal in length. What is the greatest length, in feet, that she can cut each piece into with nothing left over?

(A) 6

(B) 12

(C) 60

(D) 72

18 Two bands are marching in a parade.

- There are 32 people marching in the first band.
- There are 40 people marching in the second band.
- The same number of people are marching in each row in both bands.

What is the **greatest** number of people that could be marching in each row?

- (A) 2
- (B) 4
- (C) 8
- (D) 10

19 Select the expression that is equivalent to $48 + 12$.

(A) $6(8 + 6)$

(B) $12(4 + 1)$

(C) $4(44 + 3)$

(D) $8(6 + 4)$

20 Which expression is equivalent to $24 + 30$?

(A) $6(4 + 5)$

(B) $6(4 + 6)$

(C) $8(3 + 4)$

(D) $8(3 + 12)$