

Module 3 Topic D Lessons 12-15  
Multiplication and Division Using Units of 9



Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

**Directions:**

Circle the letter to the correct answer. Read the questions carefully. Think and work out the problem before marking your answer choice.

1) Count by nine to fill in the blanks below.

9, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Complete the multiplication equation that represents the final number in your count-by.

$9 \times \underline{\quad} = \underline{\quad}$

Complete the division equation that represents your count-by.

$\underline{\quad} \div 9 = \underline{\quad}$

2) Which number sentence could you use to find out what the letter v stands for?

$$9 \times v = 81$$

A.  $81 \div 9 =$

B.  $9 \div 81 =$

C.  $9 \times 81 =$

D.  $81 \times 9 =$

3) Choose the number that stands for the letter.

$$9 \times v = 81$$

A) 8

B) 9

C) 2

D) 0




For numbers 4 and 5, select all of the answers that are correct.

4) Each school van seats 9 students. If there are 4 school vans, how many students can ride in the vans?

- A. 3 hundreds 6 ones
- B. 36 tens
- C. 36 ones
- D. 3 tens 6 ones

5) How many shoes are on nine children?

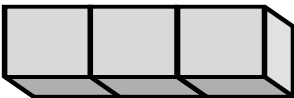
- A)  $12 + 6$
- B)  $22 - 4$
- C)  $7 + 14$
- D)  $6 \times 3$

6) Each  has a value of 9. Find the value of each row. Then add the rows to find the total.

$$8 \times 9 = \underline{\quad}$$



$$5 \times 9 = \underline{\quad}$$



$$\underline{\quad} \times 9 = \underline{\quad}$$

$  \begin{aligned}  8 \times 9 &= (5 + \underline{\quad}) \times 9 \\  &= (5 \times 9) + (\underline{\quad} \times \underline{\quad}) \\  &= 45 + \underline{\quad} \\  &= \underline{\quad}  \end{aligned}  $
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7) Mr. Doug gave each of his neighbors 9 bell peppers. If he gave away 45 bell peppers, how many neighbors does he have?

- A) 5
- B) 25
- C) 45
- D) 54

Write the equation that you used to solve the problem.

\_\_\_\_\_

8) Roberto pours 27 liters of water equally into 3 different containers. Which equation correctly shows how to solve to find the number of liters in each container?

- A)  $27 \times 3 =$
- B)  $27 \div 3 =$
- C)  $27 + 3 =$
- D)  $27 - 3 =$

How many liters are in each container? \_\_\_\_\_

9) Ava bought 9 packs of shells. There are 10 shells in each pack. She always uses 30 shells to make a picture frame.

Part A) How many shells did Ava buy? \_\_\_\_\_

Part B) How many picture frames can she make? \_\_\_\_\_

Part C) Will Ava have any shells left over? \_\_\_\_\_

**Constructed Response Question**

Directions: Write your answer to the questions in the spaces provided.

This question has more than one part. Be sure to show all of the work you do to find your answer. Even if you cannot answer all parts, answer as many as you can. You may get points for answering part of a question. Write your answers clearly.

There are 8 erasers in a set. James buys 9 sets.

Part A) Write an equation using the letter E to find out how many erasers James has in all. Then solve for E. Draw a picture if you need to.

Equation: \_\_\_\_\_ E= \_\_\_\_\_

Part B) After giving some of his erasers away, James has 42 erasers left. How many erasers did he give away? Write an equation using the letter g to represent, how many he gave away. Then solve for the g.

Equation: \_\_\_\_\_ G= \_\_\_\_\_