

MODULE 3 REVIEW ACTIVITY

TEST: Key

Name \_\_\_\_\_

Date \_\_\_\_\_

1. What is the greatest multiple of 9 that is less than 60?

9, 18, 27, 36, 45, 54

2. Identify each number as prime or composite. Then, list all of its factors.

- a. 6 Composite      1, 2, 3, 6
- b. 9 Composite      1, 3, 9
- c. 13 prime      1, 13
- d. 26 Composite      1, 2, 4, 6, 13, 26
- e. 29 prime      1, 29

3. Use any place value strategy to divide.

a.  $2,700 \div 9$

$$\begin{array}{r}
 300 \\
 9 \overline{) 2700} \\
 \underline{27} \phantom{00} \\
 00 \\
 \underline{0} \\
 00
 \end{array}$$

- b. 84 markers come in a pack. If 4 students share 3 boxes equally, how many markers does each student receive?

$$\begin{array}{r}
 84 \text{ Markers} \\
 \times 3 \text{ Boxes} \\
 \hline
 252 \\
 \quad 63 \\
 \hline
 4 \overline{) 252} \\
 \quad 28 \\
 \quad \hline
 \quad 12
 \end{array}$$

Each student would receive 63 markers

4.  $628 \div 3$

a. Solve by drawing place value disks.

Handwritten work for  $628 \div 3$  using place value disks. It shows a grid with columns for hundreds, tens, and ones. The hundreds column has two disks, the tens column has two disks, and the ones column has eight disks. The student has circled the two tens disks and moved them to the ones column, resulting in two hundreds disks, zero tens disks, and eight ones disks. The final answer is 209 R1.

b. Solve numerically.

Handwritten numerical work for  $628 \div 3$ . It shows a long division problem:  $3 \overline{)628}$ . The student has written 209 as the quotient and 1 as the remainder. The work includes the steps:  $3 \times 200 = 600$ ,  $3 \times 9 = 27$ , and  $600 + 27 = 627$ , with a remainder of 1.

5. Use any place value strategy to multiply or divide.

a.  $2,808 \div 3$

Handwritten long division for  $2,808 \div 3$ . The student has written 936 as the quotient. The work shows:  $3 \overline{)2808}$ ,  $3 \times 900 = 2700$ ,  $2808 - 2700 = 108$ ,  $3 \times 30 = 90$ ,  $108 - 90 = 18$ ,  $3 \times 6 = 18$ , and  $18 - 18 = 0$ .

b.  $5,808 \div 5$

Handwritten work for  $5,808 \div 5$ . It shows two methods. On the left, a long division problem:  $5 \overline{)5808}$  with a quotient of 1161 R3. The work shows:  $5 \times 1000 = 5000$ ,  $5808 - 5000 = 808$ ,  $5 \times 100 = 500$ ,  $808 - 500 = 308$ ,  $5 \times 60 = 300$ ,  $308 - 300 = 8$ , and  $5 \times 1 = 5$ , with a remainder of 3. On the right, a multiplication check:  $1161 \times 5 = 5805$ , and  $5805 + 3 = 5808$ .

c.  $30 \times 42$

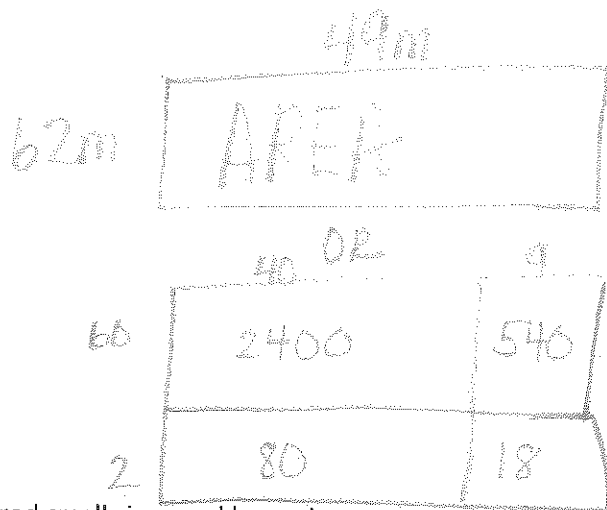
Handwritten work for  $30 \times 42$ . It shows two methods:  $3 \times (10 \times 42) = 3 \times 420 = 1260$ , and a standard multiplication problem:  $420 \times 3 = 1260$ .

d.  $18 \times 56$

Handwritten work for  $18 \times 56$ . It shows a standard multiplication problem:  $56 \times 18 = 1008$ .

Solve using a model or equation. Show your work, and write your answer as a statement.

6. A new pet store is opening next month.
- a. The store's rectangular floor is 62 meters long and 49 meters wide. How many square meters of flooring do they need? Use estimation to assess the reasonableness of your answer.



$$\begin{array}{r}
 62 \\
 \times 49 \\
 \hline
 558 \\
 2480 \\
 \hline
 3038
 \end{array}$$
  

40	02	9
2400	540	
80	18	

$$\begin{array}{r}
 2400 \\
 540 \\
 80 \\
 18 \\
 \hline
 3038
 \end{array}$$

- b. The store ordered small signs and large signs to promote their grand opening. 12 times as many small posters were ordered as large posters. If there were 72 large posters, how many more small posters were ordered than large posters?

$$\begin{aligned}
 S &= 12 \times L = 864 \\
 L &= 72
 \end{aligned}$$

$$\begin{array}{r}
 72 \\
 \times 12 \\
 \hline
 144 \\
 720 \\
 \hline
 864
 \end{array}$$

864  
 $- 72$   


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 792 more  
 small  
 posters than  
 large  
 posters



- c. Staff badges are sold in packages of 6. The store's 123 employees will each be given 2 badges. How many packages will the store need to order?

123 Employees  
 2 Badges  
 246 Total Badges  
 Packs of 6

$$\begin{array}{r} 41 \\ \hline 6 \overline{) 246} \\ \underline{24} \\ 06 \\ \underline{6} \\ 0 \end{array}$$

Packages  
 Need to be  
 ordered

- d. There are three numbers for the combination to the store's lock. The first number is 19. The other two numbers can be multiplied together to give a product of 54. What are all of the possibilities for the other two numbers? Write your answers as multiplication equations, and then write all of the possible combinations to the safe.

19

	54
1	54
2	27
3	18
6	9

Possible combinations

- 19, 1, 54
- 19, 54, 1
- 19, 2, 27
- 19, 27, 2
- 19, 3, 18
- 19, 18, 3
- 19, 6, 9
- 19, 9, 6