Name _____   Date _____

1. a.   Skip-count by nines down from 90.

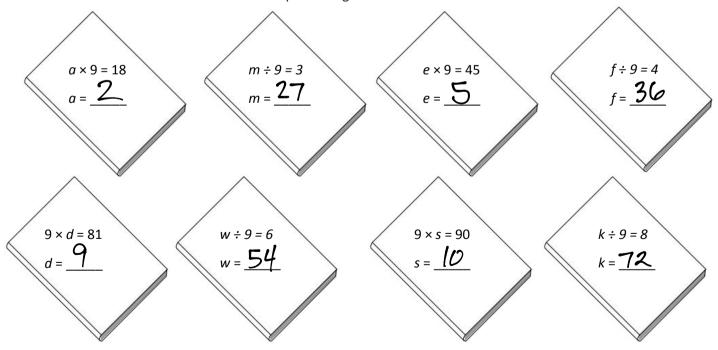_**90**_ , 81 , _**72**_ , 63 , 54 , 45 , _**36**_ , 27 , 18 , 9

   b.   Look at the **tens** place in the count-by. What is the pattern?

The digit in the tens place goes down by one each time.

   c.   Look at the ones place in the count-by. What is the pattern?

The digit in the ones place goes up by one each time.

2.   Each number sentence contains a letter representing the unknown. Find the value of each unknown.

$a \times 9 = 18$
$a = $ 2

$m \div 9 = 3$
$m = $ 27

$e \times 9 = 45$
$e = $ 5

$f \div 9 = 4$
$f = $ 36

$9 \times d = 81$
$d = $ 9

$w \div 9 = 6$
$w = $ 54

$9 \times s = 90$
$s = $ 10

$k \div 9 = 8$
$k = $ 72

3. Solve.

a. What is 10 more than 0? **10**
   What is 1 less? **9**
   1 × 9 = **9**

b. What is 10 more than 9? **19**
   What is 1 less? **18**
   2 × 9 = **18**

c. What is 10 more than 18? **28**
   What is 1 less? **27**
   3 × 9 = **27**

d. 10 more than 27? **37**
   What is 1 less? **36**
   4 × 9 = **36**

e. What is 10 more than 36? **46**
   What is 1 less? **45**
   5 × 9 = **45**

f. What is 10 more than 45? **55**
   What is 1 less? **54**
   6 × 9 = **54**

g. What is 10 more than 54? **64**
   What is 1 less? **63**
   7 × 9 = **63**

h. What is 10 more than 63? **73**
   What is 1 less? **72**
   8 × 9 = **72**

i. What is 10 more than 72? **82**
   What is 1 less? **81**
   9 × 9 = **81**

j. What is 10 more than 81? **91**
   What is 1 less? **90**
   10 × 9 = **90**

4. Explain the pattern in Problem 2 and use the pattern to find the next 3 facts.

11 × 9 = **99**   12 × 9 = **108**   13 × 9 = **117**

10×9 =90

+10 −1   +10 −1   +10 − 1