

# Activity 11: CAN IT BE A MISFORTUNE COOKIE?

(Fill-in all the blanks and solutions!)

If a fortune cookie has a "negative" message, would you call it a "mis"fortune cookie? These fortunes have expressions with negative exponents. Evaluate all the expressions. Then crack the code to read the advice from the big fortune cookie below.

**A** =  $(-\frac{2}{3})^{-1}$  (A = -1 1/2)

**B** =  $(\frac{1}{3})^{-3}$  B =

**R** =  $(-3)(\frac{1}{3})^{-1}$  R =

**E** =  $(-4)^{-2}$  E =

**C** =  $4^{-1}$  C =

**M** =  $(-1)^{-99}$  M =

**H** =  $(-2)(-\frac{1}{2})^{-1}$  H =

**G** =  $(-\frac{1}{2})^{-3}$  G =

**T** =  $(\frac{1}{12})^{-2} \cdot 4^{-2}$  T =

**F** =  $(-2)^{-3}$  F =

**Y** =  $4^{-1} - 2^{-1}$  Y =

**N** =  $(-1)^{-100}$  N =

**K** =  $(\frac{1}{2})^{-3}$  K =

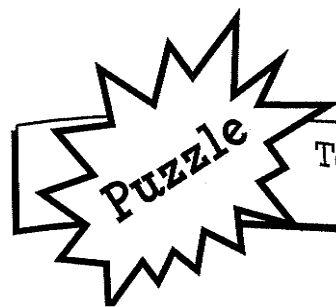
**S** =  $(\frac{1}{12})^{-1} \cdot 4^{-1}$  S =

**I** =  $-2 - (\frac{1}{2})^{-1}$  I =

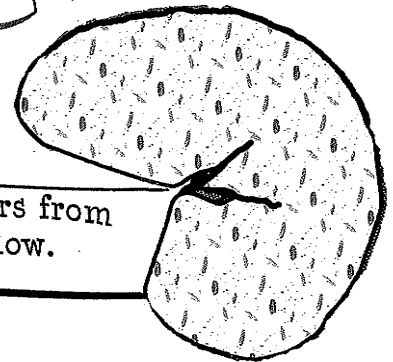
**V** =  $(1\frac{1}{2})^{-1} \cdot (\frac{1}{9})^{-1}$  V =

**U** =  $(\frac{1}{4})^{-1} + (-\frac{1}{2})^{-1}$  U =

**O** =  $3 - (\frac{1}{3})^{-1}$  O =



To find the "mis"fortune, write the letters from the equations on the blank lines below.



|                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 9                    | -9                   | $-\frac{1}{4}$       | 1                    | 0                    | 9                    | 9                    | 0                    | -8                   | $\frac{1}{16}$       | 9                    | 9                    | 0                    | 0                    |                      |                      |                      |                      |                      |                      |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | A                    | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | A                    | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | A                    | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| 1                    | $\frac{1}{16}$       | -8                   | $-1\frac{1}{2}$      | 9                    | -4                   | 6                    | $\frac{1}{16}$       | $-1\frac{1}{2}$      | 27                   | 0                    | 2                    | 9                    | -1                   | $-1\frac{1}{2}$      | 9                    | 4                    |                      |                      |                      |