



# PERSON PUZZLE SOLVING ABSOLUTE VALUE EQUATIONS

NAME \_\_\_\_\_ DATE \_\_\_\_\_

## JIM HENSON

A screenwriter, director and puppeteer, Jim Henson (1936 - 1990) was the creative force behind *The Muppets* and *Sesame Street*. Throughout his illustrious career, Henson won a number of Emmy nominations along with an assortment of other accolades. Perhaps more significantly, his iconic characters continue to put smiles on people's faces -- young and old.



**DIRECTIONS:** Solve each absolute value equation. The word or phrase next to the equivalent set of answers will complete the statement correctly.

1.  $|x + 4| = 2$

Jim Henson was born in Greenville, \_\_\_\_\_.

- a.  $x = \{-2\}$  Arkansas
- b.  $x = \{-6\}$  Kentucky
- c.  $x = \{-2, -6\}$  Mississippi

3.  $5 = \left| \frac{t}{4} \right|$

While in college, Henson created a puppet show called \_\_\_\_\_ which included a version of the character Kermit the Frog.

- a.  $t = \{-9, 9\}$  *A Puppet's Life*
- b.  $t = \{0, 20\}$  *Life on the Lily*
- c.  $t = \{-20, 20\}$  *Sam and Friends*

5.  $|-4 + 2b| = 16$

In 1969, Henson created characters for *Sesame Street* and personally performed \_\_\_\_\_.

- a.  $b = \{-10, 6\}$  Cookie Monster
- b.  $b = \{-6, 10\}$  Ernie
- c.  $b = \{6, 9\}$  Grover

7.  $|v + 8| - 5 = 2$

After the success of *The Muppet Show*, Henson produced *The Muppet Movie* which grossed \_\_\_\_\_ in the United States.

- a. no solution \$32.5 million
- b.  $v = \{-11, -5\}$  \$54.7 million
- c.  $v = \{-1, -15\}$  \$65.2 million

2.  $|p - 3| = 10$

Henson earned a Bachelor's Degree in Studio Art at the University of \_\_\_\_\_.

- a.  $p = \{-7, 13\}$  Maryland
- b.  $p = \{-13, 7\}$  Miami
- c.  $p = \{-30, 30\}$  Southern California

4.  $\left| \frac{2k}{3} \right| = 4$

To make his puppets express more emotions, Henson built them out of \_\_\_\_\_ instead of the traditional wood.

- a.  $k = \{-2, 4\}$  cotton
- b.  $k = \{-6, 6\}$  foam rubber
- c. no solution thermoplastic

6.  $|8m - 5| = -13$

*The Muppet Show* was rejected by American producers who thought it would only appeal to children, so Henson had to film it in \_\_\_\_\_.

- a.  $m = \{-1, 9/4\}$  Canada
- b.  $m = \{0, 3\}$  Ireland
- c. no solution the United Kingdom

8.  $2|-2w + 6| = 12$

Friends who knew him believed that Henson's personality was most similar to his character \_\_\_\_\_.

- a.  $w = \{0\}$  Big Bird
- b.  $w = \{-3, 4\}$  Fozzie
- c.  $w = \{0, 6\}$  Kermit

# SHOW YOUR WORK



1.  $|x+4| = 2$

2.  $|p-3| = 10$

3.  $5 = \left| \frac{t}{4} \right|$

4.  $\left| \frac{2k}{3} \right| = 4$



**JIM  
HENSON**

5.  $|-4+2b| = 16$

6.  $|8m-5| = -13$

7.  $|v+8| - 5 = 2$

8.  $2|-2w+6| = 12$