

**Truth Value of Open Sentences - Matching Worksheet**

Write the letter of the answer that matches the problem.

- \_\_\_\_\_ 1. Using the natural numbers as a domain, determine the solution set for the following open sentences.  
"12x - 10 = 14" a. Open
- \_\_\_\_\_ 2. Using the natural numbers as a domain, determine the solution set for the following open sentences.  
"4x - 9 = 31" b. x=6
- \_\_\_\_\_ 3. Using the natural numbers as a domain, determine the solution set for the following open sentences.  
"9x - 22 = 23" c. x=2
- \_\_\_\_\_ 4. Using the natural numbers as a domain, determine the solution set for the following open sentences.  
"8x - 7 = 41" d. Heptagon
- \_\_\_\_\_ 5. Determine whether the following sentences are TRUE, FALSE, or OPEN.  
"6d - 1 = 7" e. x=10
- \_\_\_\_\_ 6. Determine whether the following sentences are TRUE, FALSE, or OPEN.  
"11e - 4 = 9" f. Open
- \_\_\_\_\_ 7. Determine whether the following sentences are TRUE, FALSE, or OPEN.  
"7f - 9 = 14" g. Quadrilateral
- \_\_\_\_\_ 8. Use the domain {triangle, rectangle, square, parallelogram, rhombus, trapezoid} to find the solution set for the following open sentences.  
"This shape has 360° as a sum of all interior angles that are equal in measure." h. Open
- \_\_\_\_\_ 9. Use the domain {triangle, rectangle, square, parallelogram, rhombus, trapezoid} to find the solution set for the following open sentences.  
"This shape has 900° as a sum of all interior angles that are equal in measure." i. x=5

