

## Activity 9: Chow Time (Fill-in all the blanks and solutions!)

**Directions:** Solve each problem below. Write the variable on the lines above the correct answer in the question box. Be careful! Each answer must match exactly. Some answers will not have a space below. The resulting message will be the answer to the riddle.

1. 50% of 108 is M ( $M = 54$ )

8. 5% of 1600 is O

2. 20% of 375 is W

9. 27 is 75% of D

3. N% of 8 is 6

10. 150% of R is 36

4. A% of 48 is 18

11. .4% of C is 1.44

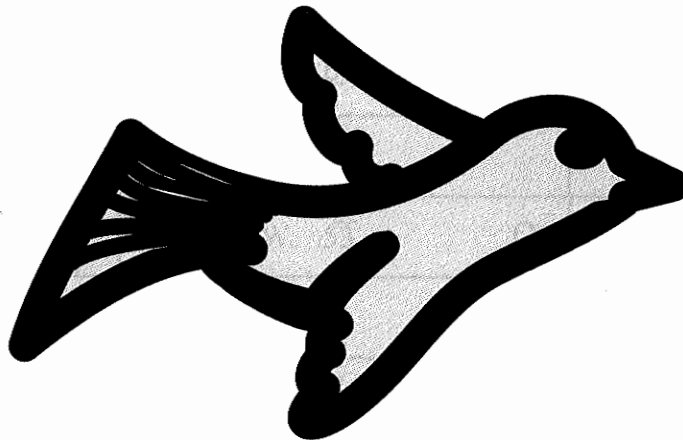
5. F% of 15 is 12

12. 15% of 62 is T

6. 10% of L is 60

13. 200% of E is 36

7. 10% of 45 is S



**Question:** What is a canary's favorite breakfast cereal?

360

24

18

37.5%

54

M

80

80%

9.3

75

18

18

9.3

## □ Solving Percent Problems

Percent problems usually need some simple mathematical transformations in order to solve them. These common key words associated with their mathematical symbols should help ease the look of some percent “story problems.”

“of” *means* multiply

“What number” or “Some number” *means* use a variable

“%” *means* switch the number back to the useful decimal form

“is” *means* equals

*Example:* What number is 30% of 60?

$$n = .30 \times 60$$

$$n = 18$$

*Example:* The number 20 is what percent of 60?

$$\begin{array}{r} \frac{20}{60} = n\% \times \frac{60}{60} \\ \hline .333 = n\% \\ 33.\overline{3}\% = n \end{array}$$