Write each verbal expression as an algebraic expression. Then use the answer key to solve the riddle.

1. the product of 20 and $t$ $20t$
2. the sum of 4 times $n$ and 2 $4n + 2$
3. the product of 7 and $p$ $7p$
4. the sum of six times $n$ and 1 $6n + 1$
5. the sum of 5 and a number $5 + n$
6. the quotient of $n$ and 8 $\frac{n}{8}$
7. $m$ plus 6 $m + 6$
8. $t$ less than 23 $23 - t$
9. the quotient of 100 and the amount 6 plus $w$ $\frac{100}{6 + w}$

What’s worse than raining cats and dogs?

20t 7p 5 + n m + 6 5 + n 4n + 2 23 − t
\[ \frac{n}{8} \quad 7p \quad 6n + 1 \quad \frac{100}{(6 + w)} \]
Algebraic Reasoning

Puzzles, Twisters & Teasers: Birds of a Feather!

Solve the crossword puzzle. Then use the letters in the shaded boxes to answer the riddle. You’ll need to use some letters more than once.

Across
1. something that does not change
2. a number or variable placed to the right of and above another number, variable, or expression
6. putting together
8. the letter in a term
9. a number, a variable, or a product of numbers and variables

Down
1. the number in a term
3. the multiple expressed by an exponent
4. a symbol used for counting
5. group similar objects
7. similar

Where do birds invest their money?

In the ____________________________________________

Holt McDougal Mathematics