

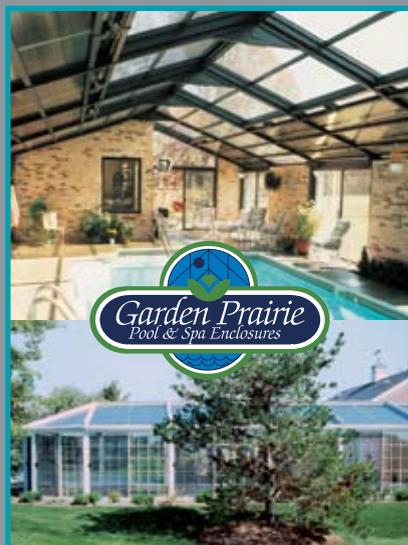
# quickquiz



## Brain Teasers

Gary R. Gruber, the author of more than 30 test-prep books (drgarygruber.com), designed this challenge to test your problem-solving skills. Remember: Creative people look outside the realm of normal thinking to solve problems.

DEC



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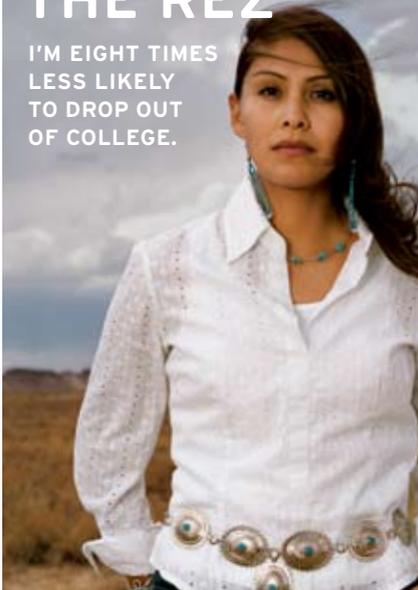
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- If I have **3 dimes, 3 nickels, and 3 quarters**, how many ways can I make change for \$1?
- How many state names in the U.S. begin with the same letter as the state's capital city?
- Three friends eat breakfast at a restaurant. They estimate that the bill will be \$30, so each pays \$10. When the bill comes, it is \$25. They **each take \$1 back**, leaving the remaining \$2 as a tip. Each has paid \$9, and  $3 \times \$9 = \$27$ . But  $\$27$  plus \$2 is only \$29. Where did the extra dollar go?
- What English word contains all the vowels in alphabetical order?
- You have 12 balls which are identical in all ways, except one ball is heavier than the rest. With a balance scale, how could you determine in **three weighings** which is the heavy ball?
- Complete the analogy: **hamlet : village ::**  
(A) **street : sidewalk**  
(B) **highway : car**  
(C) **building : skyscraper**  
(D) **photograph : portrait**  
(E) **cottage : house**
- A four-sided figure has sides of lengths  $a$ ,  $b$ ,  $c$ , and  $d$ . Sides of lengths  $c$  and  $d$  meet at a right angle. Sides of lengths  $a$  and  $d$  meet at a 140-degree angle. Sides of lengths  $b$  and  $c$  meet at a 40-degree angle. Is  $(a \times a) - (c \times c)$  **greater than, equal to, or less than**  $(d \times d) - (b \times b)$ ?
- What is the next letter in the sequence: **s t n o j k g h**  
(A) **g** (B) **c** (C) **d** (D) **e** (E) **f**
- $a$  does not equal  $b$ , and  $a + b$  is greater than 0. Is  $2ab$  divided by  $(a + b)$  **greater than, equal to, or less than**  $(a + b)$  divided by 2?

For detailed solutions, visit [hemispheremagazine.com](http://hemispheremagazine.com).

**ANSWERS:** 1. There are two ways: 3q, 2d, and 1r; or 3q, 1d, and 3n. 2. There are four states: Honolulu-Hawaii, Oklahoma City-Oklahoma, Indianapolis-Indiana, and Dover-Delaware. 3. The \$2 tip came from the \$27 the customers paid, not from the \$3 they got back. 4. facetious. 5. Weigh six balls against the other six. Whichever group tips the scale has the heavier ball. From that group, weigh three against three. Whichever group tips the scale has the heavier ball. From that group, weigh one against one. If they balance, the heavy ball is the remaining one; if they don't, the one that tips the scale is the heavy one. 6. (E) cottage : house equal to. 8. (D) e. 9. less than