

## Cryptic Quiz

1. What is the opposite of a professional eater?

117 116 115 114 113 112 111 110 109 108 107 106 105

2. How would you describe a job in the Acme Mitten Co. shipping department?

102 4 101 100 10 105 104 103 102 101 100 109 108 107 106

3. What can be right but never wrong?

10 106 104 103 102 101 10 107

For each exercise, find the missing length. (Refer to the diagram at the right.) Round your answer to the nearest tenth (if necessary) and find it in the code. (Each time the answer appears, write the letter of the exercise above it.)



(1)  $a = 9$ ,  $b = 4$ ,  $c = \underline{\hspace{2cm}}$

(2)  $a = 50$ ,  $b = 50$ ,  $c = \underline{\hspace{2cm}}$

(3)  $a = 8$ ,  $b = 14$ ,  $c = \underline{\hspace{2cm}}$

(4)  $a = \underline{\hspace{2cm}}$ ,  $b = 23$ ,  $c = 30$

(5)  $a = \underline{\hspace{2cm}}$ ,  $b = 3$ ,  $c = 7$

(6)  $a = 8$ ,  $b = \underline{\hspace{2cm}}$ ,  $c = 11$

(7)  $a = \underline{\hspace{2cm}}$ ,  $b = 5$ ,  $c = 12$

(8)  $a = 1$ ,  $b = 1$ ,  $c = \underline{\hspace{2cm}}$

(9)  $a = \underline{\hspace{2cm}}$ ,  $b = 8$ ,  $c = 10$

(10)  $a = \underline{\hspace{2cm}}$ ,  $b = 15$ ,  $c = 20$

(11)  $a = 5$ ,  $b = \underline{\hspace{2cm}}$ ,  $c = 6$

(12)  $a = 2$ ,  $b = \underline{\hspace{2cm}}$ ,  $c = 3$

(13)  $a = 4$ ,  $b = \underline{\hspace{2cm}}$ ,  $c = 10$

(14)  $a = \underline{\hspace{2cm}}$ ,  $b = 15$ ,  $c = 17$

(15)  $a = 12$ ,  $b = \underline{\hspace{2cm}}$ ,  $c = 13$

(16)  $a = 10$ ,  $b = \underline{\hspace{2cm}}$ ,  $c = 22$