

# GRAY MATTERS

This test, developed by **Dr. Gary R. Gruber**, author of more than 30

test-prep books ([www.drgarygruber.com](http://www.drgarygruber.com)), is designed to predict intelligence. Just remember: Creative people look outside the realm of normal thinking to solve problems.

There is no time limit for these questions except where indicated. (Remember: If problem-solving time > flight time, take the magazine with you!)

**1.** Put these statements in order:

- a) The ship stopped to anchor in Commander Bay.
- b) A boy awoke and saw a sea lion.
- c) A boy went ashore and napped in a meadow.
- d) A boy did not tell what he had seen.
- e) A boy got a job on a ship.

**2.** Suppose a bird is standing in a closed box that is resting on a scale. When the bird flies in the box, does the scale read the same, more, or less than when the bird is resting?

**3.** You are competing in a race and overtake the last runner. In which position are you now?

- a) last
- b) second to last
- c) third to last
- d) cannot be determined unless the number of runners is known
- e) cannot be determined because this is an ambiguous question.

**4.** In 20 seconds or less, determine which is greater:

- a) 410/963 – 208/962
- b) 202/962

**5.** Complete the analogy:

MOTH : CLOTHING ::

- a) sheep : wool
- b) butterfly : wood
- c) puncture : tire
- d) tear : sweater
- e) termite : house

**6.** Assuming the statement “Only the good die young” is true, we can infer which of the following?

- a) No good person lives to an old age.
- b) Anyone who lives to an old age must be bad.
- c) Only bad people live long lives.
- d) All bad people die old.
- e) Some bad people die young.

**7.** Harry owes Sam \$30. Sam owes Phil \$20. Phil owes Harry \$50. Which of the following will settle the debts?

- a) Harry could give Phil \$50.
- b) Sam could give Phil \$20 and Harry could give Sam \$40.
- c) Harry could give Phil \$20 and Sam could give Phil \$10.
- d) Sam and Phil could give Harry \$50 total.
- e) Phil could give Harry \$20 and could give Sam \$10.

**8.** If nobody loves nobody, which of the following must be true?

- I. Everybody loves somebody.
- II. Somebody loves somebody.
- III. Nobody loves anybody.
- a) I only

- b) II only
- c) III only
- d) I and II only
- e) II and III only

**9.** Solve this in 30 seconds or less:

The following are dimensions of five rectangular boxes. Which box has a volume different from the other four?

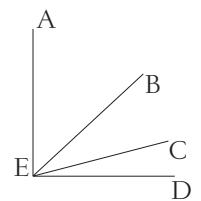
- a) 5 by 8 by 12
- b) 15 by 16 by 2
- c) 3 by 32 by 5
- d) 3 by 4 by 40
- e) 2 by 6 by 36

**10.** A clothing store offers successive discounts of 30 percent and 10 percent on a sweater. The equivalent single discount would be

- a) 34 percent
- b) 36 percent
- c) 37 percent
- d) 38 percent
- e) 40 percent

**11.** Angle AED is 90 degrees, angle BED is 40 degrees, and angle AEC is 75 degrees.

What measure is angle BEC?



**12.** In 10 seconds and without a calculator, determine whether  $999 \times 1001$  is greater than, less than, or equal to  $1000 \times 1000$ .

Answers 1. e, a, c, b, d 2. The scale reads the same. 3. e. How can you overtake the person who is last? 4. b. 202/962 is greater. Add 208/962 to both quantities and compare. 5. c. The equivalent single discount is less than the sum of the discounts. 11. 25 degrees 12.  $999 \times 1001$  is just 1 less than  $1000 \times 1000$ . Write  $999 \times 1001$  as  $(1000-1) \times (1000+1)$  and you'll find it's equal to  $1000 \times 1000 - 1$ . Score 1 right=10 of 100-110, average; 2-4=120, above average; 5-6=130, smart; 7-9=140, very smart; 10-11=150, near genius; 12-160, genius. To contact Dr. Gruber or for further information, visit the Web site [www.drgarygruber.com](http://www.drgarygruber.com).