NUMERICAL COMPUTATION

`**Directions:**

This test measures your ability to do arithmetic problems.

Each problem in this test is followed by five choices. From the five choices you are to choose the correct answer and darken in the bubble of the corresponding letter on the Answer Form. All answers must be exact and not rounded off, and fractions must be expressed in their lowest terms. Use the scratch paper provided to do all your calculations.

Now look at the following sample problems. . .

S1.	$8 + 6 =$	A. 48	B. 14	C. 2	D. 12	E. 32
S2.	$^9/_{10} - {}^1/_{10} =$	A. 1	B. $^9/_{10}$	C. $^9/_{100}$	D. $^2/_5$	E. $^4/_5$

The correct answer to the first sample problem is 14. Therefore, you would have blackened the <u>B</u> on your Answer Form.

For the second sample problem, the correct answer is $^4/_5$. When subtracting $^1/_{10}$ from $^9/_{10}$ you obtain $^8/_{10}$. Since fractions must be expressed in their lowest terms, the correct answer is $^4/_{5.}$ Therefore, you would have blackened the <u>E</u> on your Answer Form.

When you are told to begin the test, you are to answer each question just as you did in the samples above. Do not write on your test packet.

You will have **minutes** for this test. Work as fast and accurately as possible.

Do you have any questions?

DO NOT TURN THE PAGE

UNTIL THE INSTRUCTOR TELLS YOU TO DO SO.

READING

Sample Problem:
Employee safety has become a growing concern for American industry. Because of governmental regulation, companies are more concerned with hazards in the work environment. The Occupational Safety and Health Administration (OSHA) was established to monitor these activities. With proper training, the majority of industrial accidents can be avoided. Safety can also be emphasized with poster programs and top management support.

S1. Safety has become a concern for industry because of
A. an interest in employee needs.
B. a decrease in profits.
C. governmental regulations.
D. management pressure.

S2. OSHA was established to
A. reduce accidents.
B. monitor safety compliance.
C. improve the work environment.
D. increase safety awareness.

The best answer for question S1 is <u>C</u>, while the answer for question S2 is <u>B</u>. You would have blackened a C and a B on your Answer Form.

When you are told to begin the test, you are to answer each question just as you did in the samples above. Do not write on your test packet.

You will have **minutes** for this test. Work as fast and accurately as possible.

Do you have any questions?

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Directions:

This test measures your ability to find a pattern in a series of numbers.

In each problem, a series of numbers is given which forms a specific pattern according to some rule. You are to study how the given numbers are related to each other, and then determine which number should come next in the series. Each problem in this test is followed by five choices. When you determine the correct answer, you are to darken in the bubble of the corresponding letter on the Answer Form. Use the scratch paper provided to do all of your calculations.

Now look at the following sample problems. . .

S1.   2   4   6   8   10   A. 20   B. 14   C. 12   D. 32   E. 8

S2.   2   4   8   16 32   A. 64   B. 34   C. 40   D. 16   E. 74

The correct answer to the first sample problem is <u>12</u>, since 2 is added to each preceding number. Therefore, you would have blackened the <u>C</u> on your Answer Form.

For the second sample problem, the correct answer is <u>64</u>, since 2 is multiplied to each preceding number. Therefore, you would have blackened the <u>A</u> on your Answer Form.

When you are told to begin the test, you are to answer each question just as you did in the samples above. Do not write on your test packet.

You will have **minutes** for this test. Work as fast and accurately as possible.

Do you have any questions?

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Paper Folding

Directions:

This test measures your ability to visualize in three-dimensional space.

Each problem in this test contains a series of pictures. On the left side of the series you will see several pictures which show the folding of a square sheet of paper. The last picture shows where one or two holes have been punched through the folded paper.

On the right side of the series are pictures of five unfolded pieces of paper. From the five pictures on the right you are to choose the one which shows exactly where the holes are when the paper is completely unfolded. Once you determine the correct picture, you are to darken in the bubble of the corresponding letter on the Answer Form. Now look at the sample problem below. . .
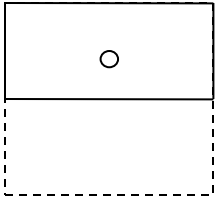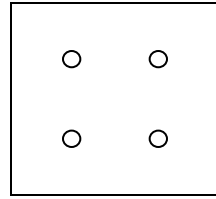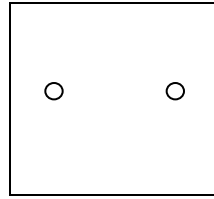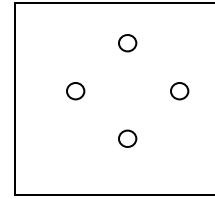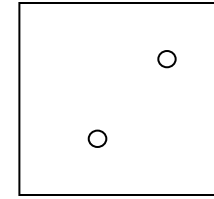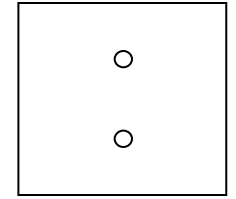
S1. **A.** **B.** **C.** **D.** **E.**

Notice that the paper is first folded in half from bottom to top. Next, a single hole is punched through the folded paper. However, because the paper is folded in half when the hole is punched, the unfolded piece of paper will have two holes (one through each of the overlapping halves). For S1, E is the best answer because it depicts a piece of paper with two holes. One hole is between the fold and the top and the other hole is between the fold and the bottom. You would have blackened E on your Answer Form.

When you are told to begin the test, you are to answer each question just as you did in the sample above. Do not write on your test packet.

You will have **minutes** for this test. Work as fast and accurately as possible.

Do you have any questions?

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