

Mathematics

SESSION 1

You may use your reference sheet and MCAS ruler during this session.

You may **not** use a calculator during this session.



DIRECTIONS

This session contains twelve multiple-choice questions, two short-answer questions, and three open-response questions. Mark your answers to these questions in the spaces provided in your Student Answer Booklet.

- 1 In the equations below, each shape stands for the same number every time that it appears.

$$\square + 6 = 18$$

$$\triangle \times 3 = \square$$

If both of these equations are true, what is the value of \triangle ?

- A. 4
- B. 8
- C. 12
- D. 36

- 2 Marcus does sit-ups every night for his exercise program. Each week, he increases the number of sit-ups he does every night, as shown in the table below.

Sit-Ups Done Each Week

Week	Sit-Ups Every Night
1	15
2	30
3	45
4	?

Based on the pattern shown in the table, what is the total number of sit-ups that Marcus will do every night during week 4?

- A. 50
- B. 55
- C. 60
- D. 65