

Mathematics

SESSION 1

You may use your tool kit 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 two open-response questions. For multiple-choice questions, mark your answers by filling in the circle next to the best answer. For the short-answer and open-response questions, write your answer in the space provided below the question.

- 1 Tom wrote the number pattern shown below.

3, 7, 11, 15, 19, 23

Which of these could be the rule for Tom's pattern?

- (A) add 3
- (B) add 4
- (C) subtract 1
- (D) subtract 3

- 2 Which of these is another way to write 6091?

- (A) $60 + 90 + 1$
- (B) $600 + 90 + 1$
- (C) $6000 + 90 + 1$
- (D) $6000 + 900 + 1$

- 3 Sarah's classmates voted for their favorite party games. Each classmate voted for one game. The tally chart below shows the results.

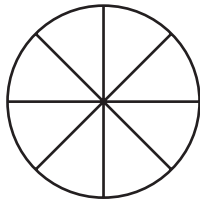
Favorite Party Games

Party Game	Number of Votes
Musical Chairs	
Leapfrog	
Duck Duck Goose	
Simon Says	

How many **more** classmates voted for leapfrog than for musical chairs?

- (A) 2
- (B) 3
- (C) 5
- (D) 7

- 4 James and Noah will paint the circle shown below.



- First, James will paint $\frac{2}{8}$ of the circle.
- Then, Noah will paint another $\frac{3}{8}$ of the circle.

Altogether, what fraction of the circle will they paint?

- | | |
|-----|----------------|
| (A) | $\frac{5}{8}$ |
| (B) | $\frac{6}{8}$ |
| (C) | $\frac{5}{16}$ |
| (D) | $\frac{6}{16}$ |