

Circle the letter of the best answer to multiple-choice questions 1 through 6. You may do your figuring in the test booklet.

1 An asteroid passed within 3.5×10^7 kilometers of Earth. What is this number written in standard notation?

- A 350,000
- B 3,500,000
- C 35,000,000
- D 350,000,000

2 What is the value of this expression?

$$(8 + 4)^2 - 5^2$$

- A 134
- B 119
- C 55
- D 49

3 The table shows the temperature at various times on a winter day in Boston.

BOSTON TEMPERATURES

Time	4 A.M.	8 A.M.	12 P.M.	4 P.M.	8 P.M.	12 A.M.
Temperature (°C)	-10	-9	-2	3	0	-6

Which list shows these temperatures in order from greatest to least?

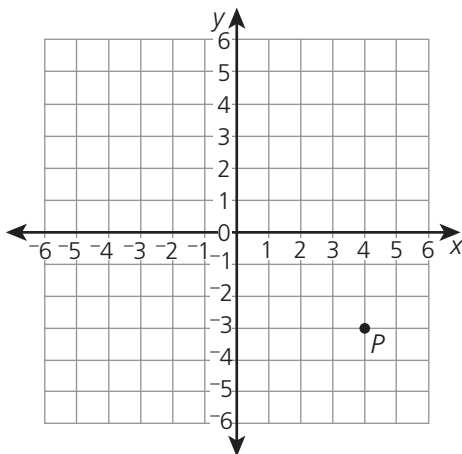
- A -10, -9, -6, 3, -2, 0
- B 0, -2, 3, -6, -9, -10
- C 3, 0, -2, -6, -9, -10
- D 3, -2, -6, -9, -10, 0

Questions 7 and 8 are short-answer questions. Write your answers below. You may do your figuring in the test booklet.

- 7 Noreen is shoveling dirt into a pickup truck that holds $\frac{3}{4}$ ton. She has filled it $\frac{1}{2}$ full. How much dirt is in the truck?

Answer: _____

- 8 What are the coordinates of point P on this coordinate grid?



Answer: _____

Question 9 is an open-response question.

- Be sure to answer and label all parts of the question below.
- Show all of your work (diagrams, tables, or computations) below.
- If you do the work in your head, explain in writing how you did the work.

- 9 A snake was 8 centimeters long when it hatched. The table shows how its length has changed since then.

GROWTH OF SNAKE

Time (in months)	Length (in centimeters)
0	8
1	11
2	14
3	17
4	20
5	23

- a. If the pattern continues, how long will the snake be 6 months after hatching? Show or explain how you got your answer.

Answer: _____

- b. Write an equation that describes the relationship between t , time in months, and l , length in centimeters.

Answer: _____

- c. Solve your equation to find the value of t for which $l = 50$. Show or explain how you got your answer.

Answer: _____