

# Malden does Math! - Grade 10 MCAS, Spring 2003

You may use your reference sheet during this session.  
You may **not** use a calculator during this session.



- 1 A landing pad for a helicopter is in the shape of a circle with a radius of 7 meters. Which of the following is closest to the area of the landing pad?
- A. 44 square meters
  - B. 154 square meters
  - C. 205 square meters
  - D. 308 square meters

- 2 Alison's car gets about 32 miles per gallon of gas. If gas prices range from \$1.80 to \$2.10 a gallon, which of the following is closest to the amount of money Alison will spend on gas for a 1200-mile road trip this summer?
- A. \$40
  - B. \$55
  - C. \$75
  - D. \$240

- 3 A book is 1 inch thick, not including the cover. If the book contains 364 sheets of paper, which measure is closest to the thickness of one sheet of paper?
- A. 0.003 in.
  - B. 0.030 in.
  - C. 0.300 in.
  - D. 0.364 in.

- 4 The table below shows a linear relationship between  $x$  and  $y$ .

$x$	$y$
-7	$a$
-3	10
-1	6
0	4
5	-6

What is the value of  $a$ ?

- A. -18
- B. -14
- C. 14
- D. 18