

# PHYSICAL SETTING PHYSICS

Thursday, January 29, 2009 — 1:15 to 4:15 p.m., only

## ANSWER BOOKLET

Student..... Sex:  Male  
 Female  
Teacher .....  
School..... Grade .....

Answer all questions in Part B-2 and Part C. Record your answers in this booklet.

Part	Maximum Score	Student's Score
A	35	
B-1	11	
B-2	19	
C	20	
Total Written Test Score (Maximum Raw Score: 85)		<input type="text"/>
Final Score (from conversion chart)		<input type="text"/>
Raters' Initials: Rater 1 ..... Rater 2 .....		

**Part B-2**

47 Magnitude: \_\_\_\_\_ m  
Direction: \_\_\_\_\_

48 Magnitude: \_\_\_\_\_ m/s<sup>2</sup>  
Direction: \_\_\_\_\_

49

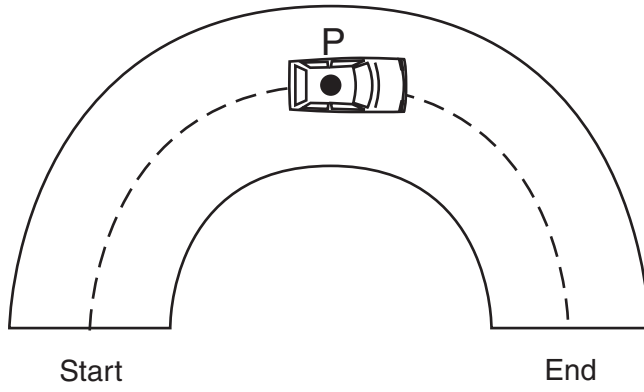
For Raters  
Only

47

48

49

50



50

51

51

52

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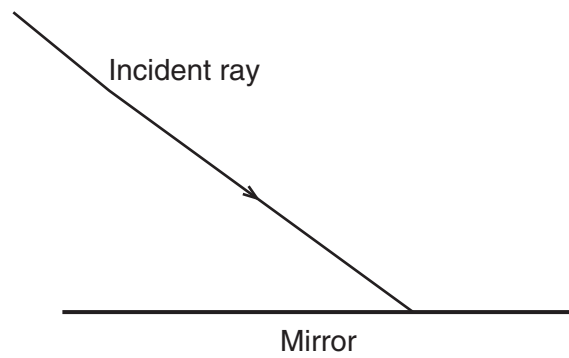
52

53

53

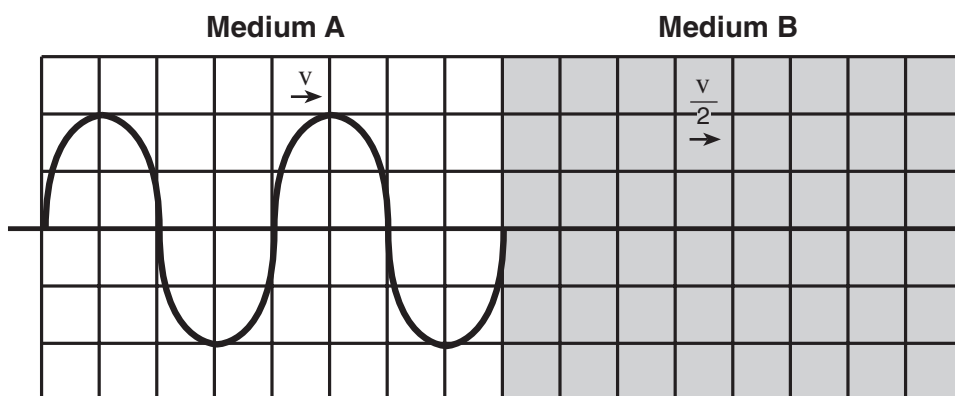
54

54



55

55



**For Raters  
Only**

**56**

**56**

**57**

**57**

**58** \_\_\_\_\_ **J**

**58**

**Total Score for  
Part B-2**

**Part C**

**For Raters  
Only**

**59**

**59**

**60**

**60**

61

61

62

62

63

63

Magnitude of  
Electrostatic  
Force

Distance  
Between  
Centers

$8.0 \times 10^{-19} \text{ C}$  (+)

(+)  $4.8 \times 10^{-19} \text{ C}$

**For Raters  
Only**

**64**

**64**

**65**

**65**

**66** \_\_\_\_\_ **s**

**66**

For Raters  
Only

67

67

68

68

69

\_\_\_\_\_

69

70

\_\_\_\_\_

70

71

\_\_\_\_\_ e

71

72

\_\_\_\_\_

\_\_\_\_\_

72

Total Score for  
Part C