0 1	<b>Standardized Test Prep</b> Arithmetic Series				
9-4					
Aultiple Ch	pice				
or Exercises	l–6, choose th	e correct letter.			
<b>1</b> . What is the	e sum of the o	dd integers 1 to 9	99?		
A 2450	Œ	3) 2500	C 2550	D 4950	
<b>2</b> . Which of t	he following is	an infinite serie	es?		
(F) 3, 8, 13, 18, 23			(H) $3 + 8 + 13$	$\textcircled{H} 3 + 8 + 13 + 18 + 23 + \dots$	
G 3+8	3 + 13 + 18 -	+ 23	(1) 3, 8, 13, 18,	23,	
A 13		53	C 438	D 5015	
<b>4.</b> What is su	mmation nota	tion for the serie	$es 5 + 7 + 9 + \cdots +$	+ 105?	
$\bigcirc \sum_{n=1}^{51} (2$	(n+3)	$\sum_{n=1}^{51} (n+3)$	(H) $\sum_{n=1}^{50} (2n+3)$	3) $\sum_{n=7}^{51} (n+3)$	
<b>5.</b> What is the	e upper limit o	f the summation	$n\sum_{n=1}^{100}(n-2)?$		
<b>5.</b> What is the		f the summation	$\sum (n-2)?$	D 100	
A 1			$\sum_{n=1}^{\infty} (n-2)?$ (C) 98	D 100	
A 1	e sum of the se	3) 2	$\sum_{n=1}^{\infty} (n-2)?$ (C) 98	<ul><li>D 100</li><li>1980</li></ul>	
<ul><li>A 1</li><li>6. What is the</li></ul>	e sum of the se	(3) 2 eries $\sum_{n=1}^{30} (2n + 2)$	$\frac{1}{n}\sum_{n=1}^{\infty} (n-2)?$ $\bigcirc 98$ $(2)?$		

**7.** What is the sum of the finite arithmetic series  $2 + 4 + 6 + \cdots + 50$ ? Show your work.

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