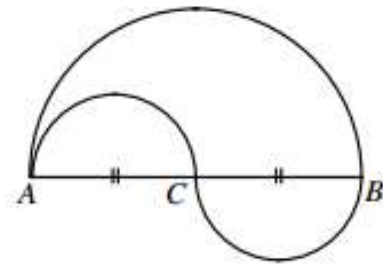


The sum of seven consecutive positive integers is always
 (A) odd (B) a multiple of 7
 (D) a multiple of 4 (E) a multiple of 3

(C) even

In the diagram, $AC = CB = 10$ m, where AC and CB are each the diameter of the small equal semi-circles. The diameter of the larger semi-circle is AB . In travelling from A to B , it is possible to take one of two paths. One path goes along the semi-circular arc from A to B . A second path goes along the semi-circular arcs from A to C and then along the semi-circular arc from C to B . The difference in the lengths of these two paths is



(A) 12π (B) 6π (C) 3π
 (D) 2π (E) 0

Kalyn writes down all of the integers from 1 to 1000 that have 4 as the sum of their digits. If $\frac{a}{b}$ (in lowest terms) is the fraction of these numbers that are prime, then $a + b$ is

(A) 5 (B) 4 (C) 15 (D) 26 (E) 19

Raymonde's financial institution publishes a list of service charges as shown in the table. For her first twenty five transactions, she uses Autodebit three times as often as she writes cheques. She also writes as many cheques as she makes cash withdrawals. After her twenty-fifth transaction, she begins to make single transactions. What is the smallest number of transactions she needs to make so that her monthly service charges will exceed the \$15.95 'all-in-one' fee?

Service Fee per Item

Cheque	\$0.50
Autodebit	\$0.60
Cash Withdrawal	\$0.45

'All-in-one' fee is \$15.95

(A) 29 (B) 30 (C) 27
 (D) 28 (E) 31