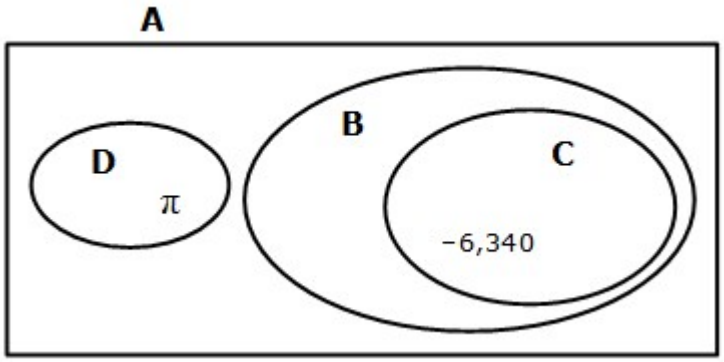
Sets and Subsets of Real Numbers

GO ON

1 The visual representation describes the relationships between the sets and subsets of numbers.



Which number set represents Section A in the Venn diagram?

A Integers

B Irrational Numbers

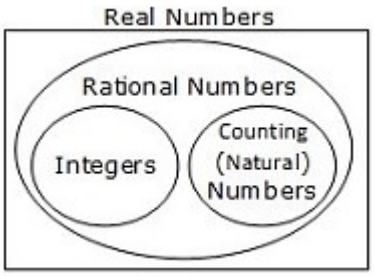
C Rational Numbers

D Real Numbers

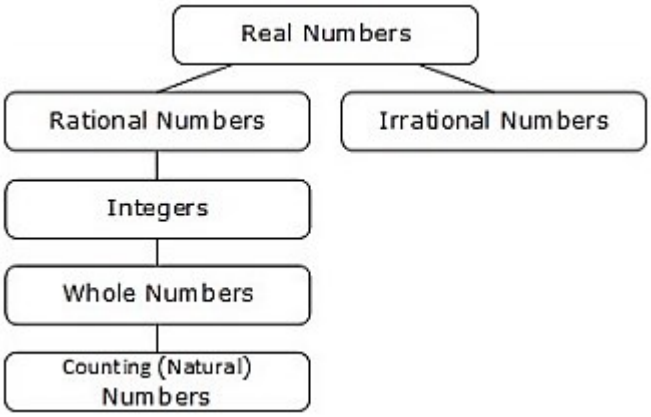
GO ON

2 Which representation does NOT describe the relationships between the subsets of real numbers?

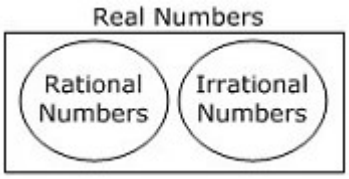
A



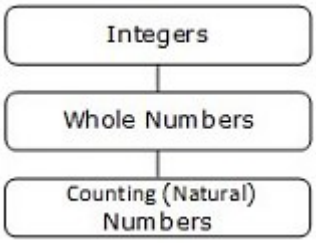
B



C

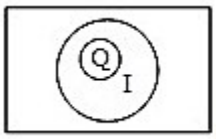


D

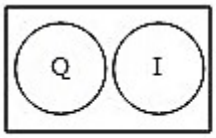


GO ON

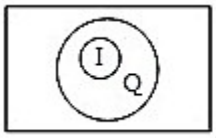
3 Which Venn diagram correctly describes the relationship between the set of Rational Numbers, Q, and the set of Irrational Numbers, I?

A 

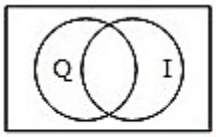
, because all rational numbers are irrational numbers

B 

, because rational and irrational numbers have no elements in common

C 

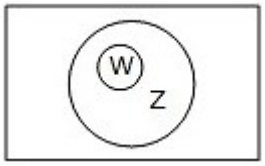
, because all irrational numbers are rational numbers

D 

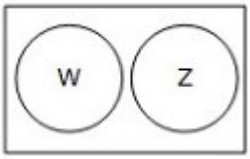
, because some rational numbers are not irrational numbers

GO ON

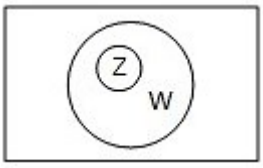
4 Which Venn diagram correctly describes the relationship between the set of Integers, Z, and the set of Whole Numbers, W?

A 

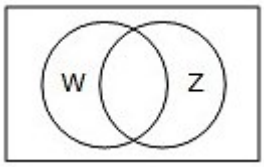
, because all whole numbers are integers

B 

, because whole numbers and integers have no elements in common

C 

, because all integers are whole numbers

D 

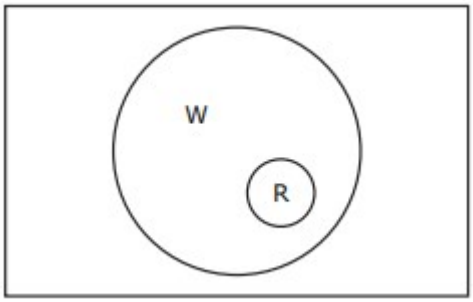
, because some whole numbers are not integers

GO ON

5 Which Venn diagram correctly describes the relationship between Set R and Set W?

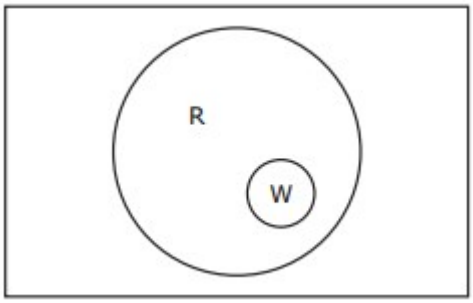
R = {real numbers}
W = {whole numbers}

A



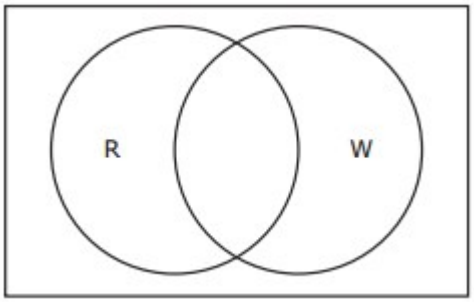
, because all real numbers are whole numbers

B



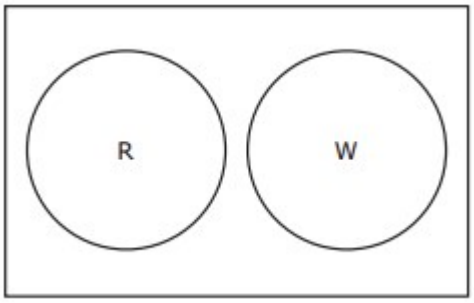
, because all whole numbers are real numbers

C



, because some whole numbers are not real numbers

D



, because whole numbers and real numbers have no elements in common

GO ON

6 Which of the following numbers is an irrational number?

A $\frac{3}{4}$

B $\sqrt{225}$

C $\sqrt{17}$

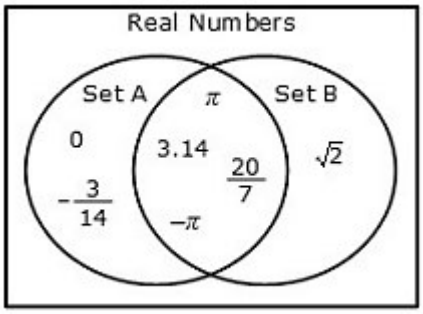
D 175.2845

GO ON

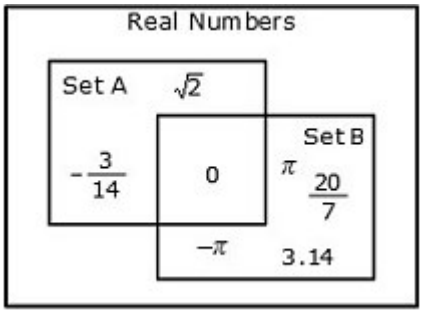
7 Set A represents the set of Rational Numbers and set B represents the set of Irrational Numbers.

Which visual representation shows correct number placement in the sets and subsets of real numbers?

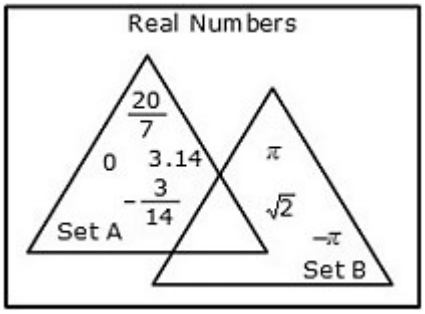
A



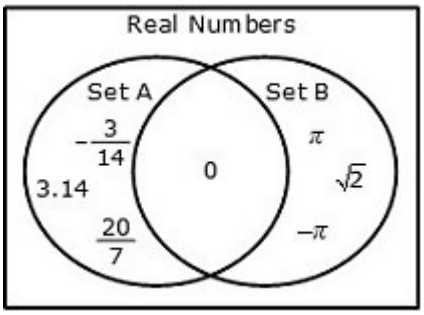
B



C



D



GO ON

8 Which statement is false?

A All Integers are Rational.

B All Rational numbers are real numbers.

C All Irrational numbers are real numbers.

D All Irrational numbers are Rational.

BE SURE YOU HAVE RECORDED ALL OF YOUR ANSWERS ON YOUR ANSWER DOCUMENT

STOP