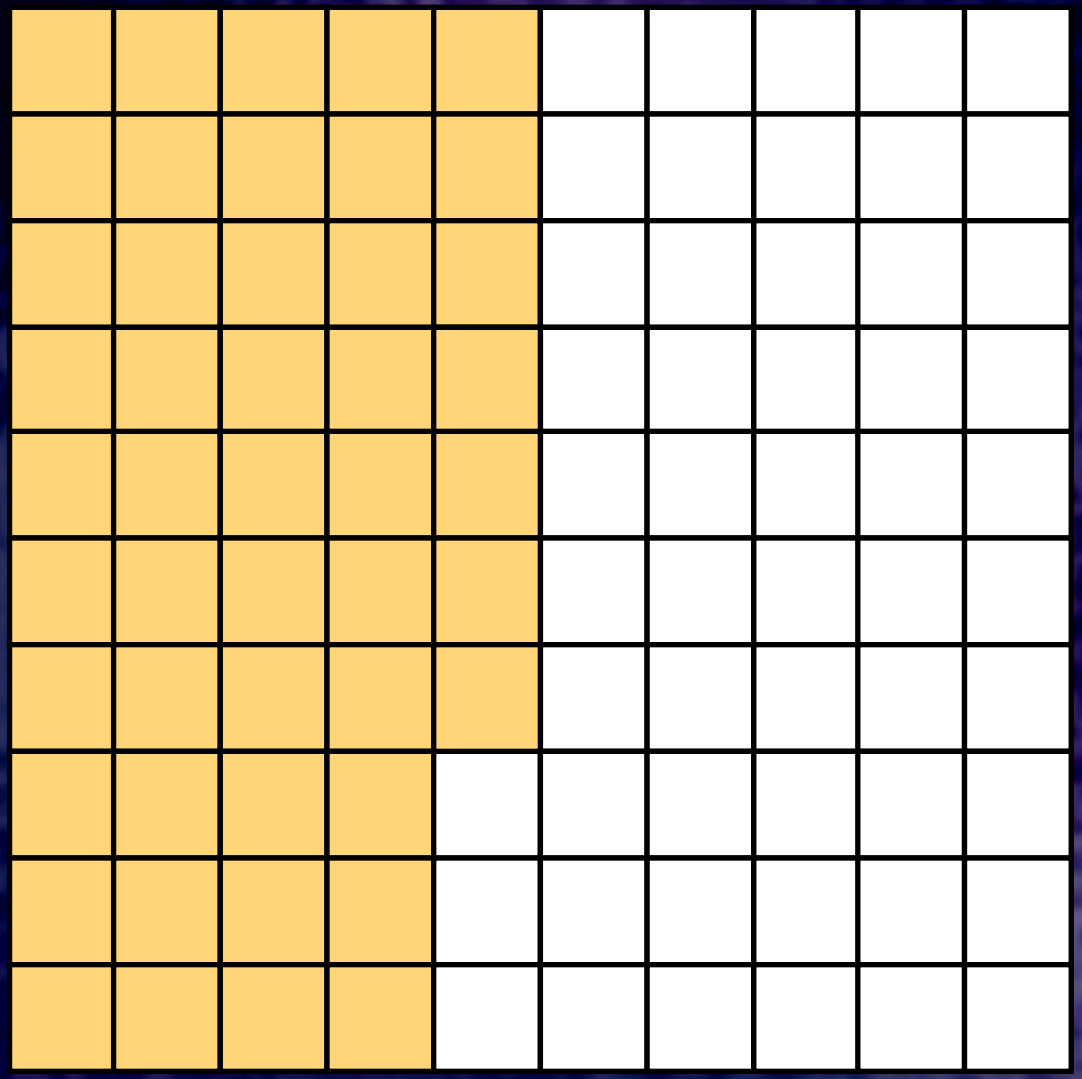
A 0.33

B 0.37

C 0.43

D 0.47



What decimal is associated with this figure?
(The 100 small squares represent 1 unit.)

2

Which of the following is a proper fraction?

A $^{-}2/3$

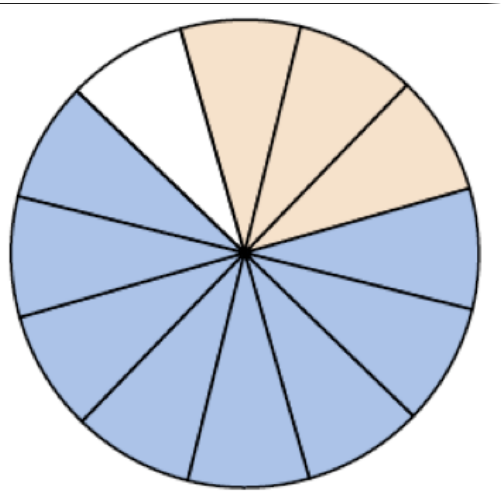
B $19/18$

C $\sqrt{2}/100$

D 1

3

Which equation in rationals is illustrated to the right?



A $\frac{1}{3} + \frac{3}{5} = \frac{14}{15}$

B $\frac{3}{10} + \frac{8}{10} = \frac{11}{10}$

C $\frac{2}{3} + \frac{1}{4} = \frac{11}{12}$

D $\frac{3}{4} + \frac{1}{6} = \frac{11}{12}$



What fraction of the three pizzas is missing?

A 2/5

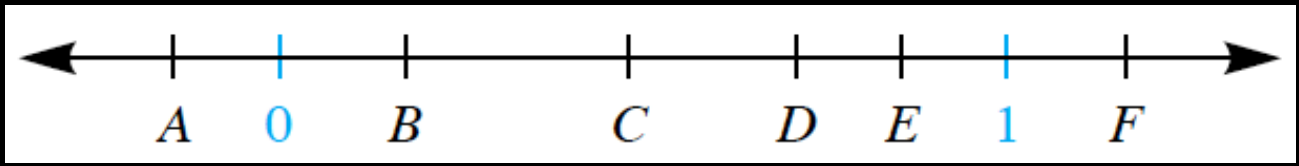
B 1/3

C 7/15

D 3/8

5

What's the value of $C \cdot D$?



A A

B B

C E

D F

6

Which of the following is not always true? (Here, a, b, c and d are positive integers.)

A $\frac{a}{b} \times \frac{c}{d} = \frac{a}{b} \div \frac{d}{c}$

B $\frac{a}{b} \cdot \frac{c}{d} = \frac{a \cdot c}{b \cdot d}$

C $\frac{a}{b} \div \frac{c}{d} = \frac{a \div c}{b \div d}$

D $\frac{a}{b} + \frac{c}{d} = \frac{a + c}{b + d}$

7

What number is the greatest common divisor of the three numbers 15, 130 and 10000?

A 1

B 5

C 15

D 390000

8

Which of the following is true?

A The decimal expansion of an irrational number cannot have a pattern.

B Most real numbers are irrational.

C The number π equals 22/7.

D It is possible to make a list that includes all irrational numbers.

9

Which one of the fractions below can be written as a terminating decimal?

A $\frac{32}{576}$

B $\frac{135}{576}$

C $\frac{25}{576}$

D $\frac{24}{576}$

10

Which of the following numbers is the largest?

A $\sqrt[6]{2}$

B $\sqrt[20]{10}$

C $\sqrt[15]{5}$

D $\sqrt[10]{3}$