

11. The sum  $2\frac{1}{7} + 3\frac{1}{2} + 5\frac{1}{19}$  is between

- A) 10 and  $10\frac{1}{2}$       B)  $10\frac{1}{2}$  and 11      C) 11 and  $11\frac{1}{2}$   
 D)  $11\frac{1}{2}$  and 12      E) 12 and  $12\frac{1}{2}$

1987 Q11

## 2 / 12

1996 Q11

11. Let  $x$  be the number

$$0.\underbrace{0000\dots00001}_{1996 \text{ zeros}},$$

where there are 1996 zeros after the decimal point. Which of the following expressions represents the largest number?

- (A)  $3 + x$       (B)  $3 - x$       (C)  $3 \cdot x$       (D)  $3/x$       (E)  $x/3$

## 3 / 12

1989 Q12

12.  $\frac{1 - \frac{1}{3}}{1 - \frac{1}{2}} =$

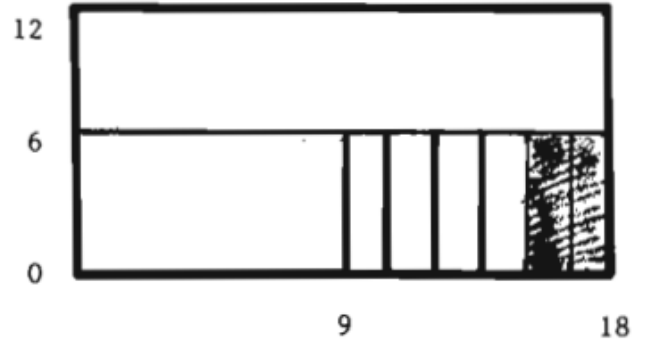
- A)  $\frac{1}{3}$       B)  $\frac{2}{3}$       C)  $\frac{3}{4}$       D)  $\frac{3}{2}$       E)  $\frac{4}{3}$

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**1987 Q12**

12. What fraction of the large 12 by 18 rectangular region is shaded?

- A)  $\frac{1}{108}$       B)  $\frac{1}{18}$       C)  $\frac{1}{12}$   
 D)  $\frac{2}{9}$       E)  $\frac{1}{3}$

**5 / 12****1998 Q12**

12.  $2(1 - \frac{1}{2}) + 3(1 - \frac{1}{3}) + 4(1 - \frac{1}{4}) + \dots + 10(1 - \frac{1}{10}) =$

- (A) 45      (B) 49      (C) 50      (D) 54      (E) 55

**6 / 12****2016 Q12**

12. Jefferson Middle School has the same number of boys and girls. Three-fourths of the girls and two-thirds of the boys went on a field trip. What fraction of the students on the field trip were girls?

- (A)  $\frac{1}{2}$       (B)  $\frac{9}{17}$       (C)  $\frac{7}{13}$       (D)  $\frac{2}{3}$       (E)  $\frac{14}{15}$

**7 / 12**

13. Which of the following fractions has the largest value?

- A)  $\frac{3}{7}$     B)  $\frac{4}{9}$     C)  $\frac{17}{35}$     D)  $\frac{100}{201}$     E)  $\frac{151}{301}$

1987 Q13

## 8 / 12

1989 Q13

13.  $\frac{9}{7 \times 53} =$

- A)  $\frac{.9}{.7 \times 53}$     B)  $\frac{.9}{.7 \times .53}$     C)  $\frac{.9}{.7 \times 5.3}$     D)  $\frac{.9}{7 \times .53}$     E)  $\frac{.09}{.07 \times .53}$

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1994 Q13

13. The number halfway between  $\frac{1}{6}$  and  $\frac{1}{4}$  is

- (A)  $\frac{1}{10}$     (B)  $\frac{1}{5}$     (C)  $\frac{5}{24}$     (D)  $\frac{7}{24}$     (E)  $\frac{5}{12}$

## 10 / 12

1992 Q14

14. When four gallons are added to a tank that is one-third full, the tank is then one-half full. The capacity of the tank in gallons is

- (A) 8    (B) 12    (C) 20    (D) 24    (E) 48

# 11 / 12

15. The reciprocal of  $(\frac{1}{2} + \frac{1}{3})$  is

- A)  $\frac{1}{6}$     B)  $\frac{2}{5}$     C)  $\frac{6}{5}$     D)  $\frac{5}{2}$     E) 5

1988 Q15

# 12 / 12

1995 Q15

15. What is the 100<sup>th</sup> digit to the right of the decimal point in the decimal form of  $4/37$ ?

- (A) 0    (B) 1    (C) 2    (D) 7    (E) 8