1985 Q6

6. A ream of paper containing 500 sheets is 5 cm thick. Approximately how many sheets of this type of paper would there be in a stack 7.5 cm high?

A) 250 B) 550 C) 667 D) 750 E) 1250

2 / 13

1990 Q6

6. Which of these five numbers is the largest?

A) $13579 + \frac{1}{2468}$ B) $13579 - \frac{1}{2468}$ C) $13579 \times \frac{1}{2468}$

D) $13579 \div \frac{1}{2468}$ E) 13579.2468

3 / 13

1997 Q6

6. In the number 74982.1035 the value of the *place* occupied by the digit 9 is how many times as great as the value of the *place* occupied by the digit 3?

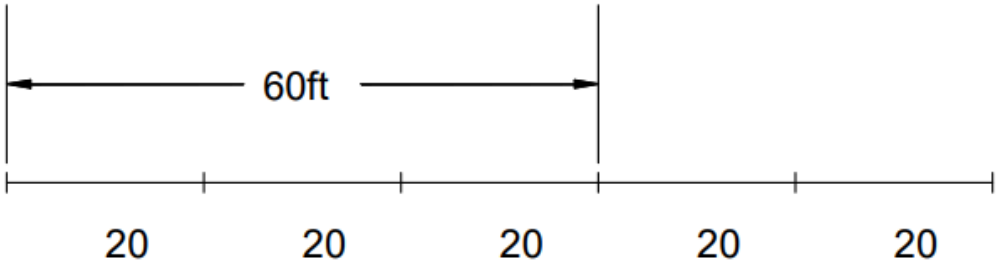
(A) 1,000 **(B)** 10,000 **(C)** 100,000 **(D)** 1,000,000 **(E)** 10,000,000

2001 Q6

6. Six trees are equally spaced along one side of a straight road. The distance from the first tree to the fourth is 60 feet. What is the distance in feet between the first and last trees?

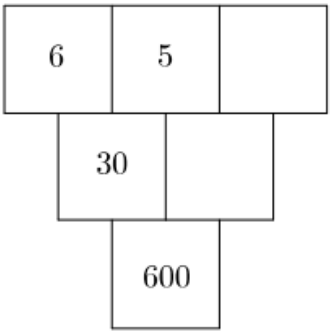
(A) 90 (B) 100 (C) 105 (D) 120 (E) 140

6. (B) There are three spaces between the first tree and the fourth tree, so the distance between adjacent trees is 20 feet. There are 6 trees with five of these 20-foot spaces, so the distance between the first and last trees is 100 feet.



2013 Q6

6. The number in each box below is the product of the numbers in the two boxes that touch it in the row above. For example, $30 = 6 \times 5$. What is the missing number in the top row?



(A) 2 **(B)** 3 **(C)** 4 **(D)** 5 **(E)** 6

7. 2.46 x 8.163 x (5.17 + 4.829) is closest to

A) 100 B) 200 C) 300 D) 400 E) 500

1988 Q7

1992 Q7

7. The digit-sum of 998 is $9+9+8=26$. How many 3-digit whole numbers, whose digit-sum is 26, are even?

(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

8 / 13

7. $3^3+3^3+3^3=$

(A) 3^4 (B) 9^3 (C) 3^9 (D) 27^3 (E) 3^{27}

1993 Q7

9 / 13

1998 Q7

7. $100 \times 19.98 \times 1.998 \times 1000 =$

(A) $(1.998)^2$ (B) $(19.98)^2$ (C) $(199.8)^2$ (D) $(1998)^2$ (E) $(19980)^2$

7. **Answer (D):** Use the associative property to group as follows: $(100 \times 19.98) \times (1.998 \times 1000) = 1998 \times 1998 = (1998)^2$.

1986 Q8

8. In the product shown, B is a digit. The value of B is

$$\begin{array}{r} B2 \\ \times 7B \\ \hline 6396 \end{array}$$

A) 3 B) 5 C) 6 D) 7 E) 8

1988 Q8

8. Betty used a calculator to find the product 0.075 x 2.56. She forgot to enter the decimal points. The calculator showed 19200. If Betty had entered the decimal points correctly, the answer would have been

A) .0192 B) .192 C) 1.92 D) 19.2 E) 192

1991 Q9

9. How many whole numbers from 1 through 46 are divisible by either 3 or 5 or both?

(A) 18 (B) 21 (C) 24 (D) 25 (E) 27

13 / 13

10. 4(299) + 3(299) + 2(299) + 298 =

A) 2889 B) 2989 C) 2991 D) 2999 E) 3009

1987 Q10