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2007 Q6

6. The average cost of a long-distance call in the USA in 1985 was 41 cents per minute, and the average cost of a long-distance call in the USA in 2005 was 7 cents per minute. Find the approximate percent decrease in the cost per minute of a long-distance call.

(A) 7 (B) 17 (C) 34 (D) 41 (E) 80



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1989 Q7

7. If the value of 20 quarters and 10 dimes equals the value of 10 quarters and n dimes, then $n =$

A) 10 B) 20 C) 30 D) 35 E) 45

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2010 Q7

7. Using only pennies, nickels, dimes, and quarters, what is the smallest number of coins Freddie would need so he could pay any amount of money less than a dollar?

(A) 6 (B) 10 (C) 15 (D) 25 (E) 99



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1992 Q8

8. A store owner bought 1500 pencils at \$0.10 each. If he sells them for \$0.25 each, how many of them must he sell to make a profit of exactly \$100.00?
- (A) 400 (B) 667 (C) 1000 (D) 1500 (E) 1900

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1995 Q8

8. An American traveling in Italy wishes to exchange American money (dollars) for Italian money (lire). If 3000 lire = \$1.60, how many lire will the traveler receive in exchange for \$1.00?
- (A) 180 (B) 480 (C) 1800 (D) 1875 (E) 4875

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1996 Q10

10. When Walter drove up to the gasoline pump, he noticed that his gasoline tank was $\frac{1}{8}$ full. He purchased 7.5 gallons of gasoline for \$10. With this additional gasoline, his gasoline tank was then $\frac{5}{8}$ full. The number of gallons of gasoline his tank holds when it is full is
- (A) 8.75 (B) 10 (C) 11.5 (D) 15 (E) 22.5

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Problems 8,9 and 10 use the data found in the accompanying paragraph and table:

Juan's Old Stamping Grounds

Juan organizes the stamps in his collection by country and by the decade in which they were issued. The prices he paid for them at a stamp shop were: Brazil and France, 6¢ each, Peru 4¢ each, and Spain 5¢ each. (Brazil and Peru are South American countries and France and Spain are in Europe.)

Number of Stamps by Decade

Country	'50s	'60s	'70s	'80s
Brazil	4	7	12	8
France	8	4	12	15
Peru	6	4	6	10
Spain	3	9	13	9

Juan's Stamp Collection

8. How many of his European stamps were issued in the '80s?

- (A) 9 (B) 15 (C) 18 (D) 24 (E) 42

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Juan's Stamp Collection

9. His South American stamps issued before the '70s cost him
(A) \$0.40 (B) \$1.06 (C) \$1.80 (D) \$2.38 (E) \$2.64

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Juan's Stamp Collection

10. **(E)** The '70s stamps cost: Brazil, $12(\$0.06) = \0.72 ; Peru, $6(\$0.04) = \0.24 ; France, $12(\$0.06) = \0.72 ; Spain, $13(\$0.05) = \0.65 . The total is \$2.33 for the 43 stamps and the average price is $\frac{\$2.33}{43} \approx \$0.054 \approx 5.5\text{¢}$.