2003 Q11

11. Business is a little slow at Lou's Fine Shoes, so Lou decides to have a sale. On Friday, Lou increases all of Thursday's prices by 10%. Over the weekend, Lou advertises the sale: "Ten percent off the listed price. Sale starts Monday." How much does a pair of shoes cost on Monday that cost $40 on Thursday?

(A) $36 (B) $39.60 (C) $40 (D) $40.40 (E) $44

2005 Q11

11. The sales tax rate in Bergville is 6%. During a sale at the Bergville Coat Closet, the price of a coat is discounted 20% from its $90.00 price. Two clerks, Jack and Jill, calculate the bill independently. Jack rings up $90.00 and adds 6% sales tax, then subtracts 20% from this total. Jill rings up $90.00, subtracts 20% of the price, then adds 6% of the discounted price for sales tax. What is Jack's total minus Jill's total?

(A) −$1.06 (B) −$0.53 (C) $0 (D) $0.53 (E) $1.06

2006 Q12

12. Antonette gets 70% on a 10-problem test, 80% on a 20-problem test and 90% on a 30-problem test. If the three tests are combined into one 60-problem test, which percent is closest to her overall score?

(A) 40 (B) 77 (C) 80 (D) 83 (E) 87

2010 Q12

12. Of the 500 balls in a large bag, 80% are red and the rest are blue. How many of the red balls must be removed from the bag so that 75% of the remaining balls are red?

(A) 25   (B) 50   (C) 75   (D) 100   (E) 150

2013 Q12

12. At the 2013 Winnebago County Fair a vendor is offering a "fair special" on sandals. If you buy one pair of sandals at the regular price of $50, you get a second pair at a 40% discount, and a third pair at half the regular price. Javier took advantage of the "fair special" to buy three pairs of sandals. What percentage of the $150 regular price did he save?

(A) 25   (B) 30   (C) 33   (D) 40   (E) 45

1996 Q13

13. In the fall of 1996, a total of 800 students participated in an annual school clean-up day. The organizers of the event expect that in each of the years 1997, 1998, and 1999, participation will increase by 50% over the previous year. The number of participants the organizers expect in the fall of 1999 is

(A) 1200   (B) 1500   (C) 2000   (D) 2400   (E) 2700

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1997 Q13

13. Three bags of jelly beans contain 26, 28, and 30 beans. The ratios of yellow beans to all beans in each of these bags are 50%, 25%, and 20%, respectively. All three bags of candy are dumped into one bowl. Which of the following is closest to the ratio of yellow jelly beans to all beans in the bowl?

(A) 31% (B) 32% (C) 33% (D) 35% (E) 95%

1985 Q14

14. The difference between a 6.5% sales tax and a 6% sales tax on an item priced at $20 before tax is

A) $.01   B) $.10   C) $.50   D) $1   E) $10

1995 Q14

14. A team won 40 of its first 50 games. How many of the remaining 40 games must this team win so it will have won exactly 70% of its games for the season?

(A) 20   (B) 23   (C) 28   (D) 30   (E) 35

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2002 Q14

14. A merchant offers a large group of items at 30% off. Later, the merchant takes 20% off these sale prices and claims that the final price of these items is 50% off the original price. The total discount is

(A) 35% (B) 44% (C) 50% (D) 56% (E) 60%

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2017 Q14

14. Chloe and Zoe are both students in Ms. Demeanor's math class. Last night they each solved half of the problems in their homework assignment alone and then solved the other half together. Chloe had correct answers to only 80% of the problems she solved alone, but overall 88% of her answers were correct. Zoe had correct answers to 90% of the problems she solved alone. What was Zoe's overall percentage of correct answers?

(A) 89 (B) 92 (C) 93 (D) 96 (E) 98

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1986 Q15

15. Sale prices at the Ajax Outlet Store are 50% below original prices. On Saturdays an additional discount of 20% off the sale price is given. What is the Saturday price of a coat whose original price is $180?

A) $54 B) $72 C) $90 D) $108 E) $110

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2010 Q15

15. A jar contains five different colors of gum drops: 30% are blue, 20% are brown, 15% are red, 10% are yellow, and the other 30 gum drops are green. If half of the blue gum drops are replaced by brown gum drops, how many of the gum drops will be brown?

(A) 35   (B) 36   (C) 42   (D) 48   (E) 64

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