2004 Q6

6. After Sally takes 20 shots, she has made 55% of her shots. After she takes 5 more shots, she raises her percentage to 56%. How many of the last 5 shots did she make?

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

2004 Q7

7. An athlete's target heart rate, in beats per minute, is 80% of the theoretical maximum heart rate. The maximum heart rate is found by subtracting the athlete's age, in years, from 220. To the nearest whole number, what is the target heart rate of an athlete who is 26 years old?

(A) 134   (B) 155   (C) 176   (D) 194   (E) 243

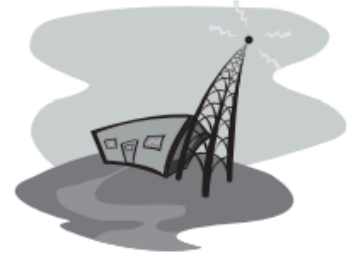## 1990 Q8

8. A dress originally priced at $80 was put on sale at 25% off. If 10% tax was added to the sale price, then the total selling price of the dress was

A) $45   B) $52   C) $54   D) $66   E) $68

2006 Q8

8. The table shows some of the results of a survey by radio station KAMC. What percentage of the males surveyed listen to the station?

	Listen	Don't Listen	Total
Male	?	26	?
Female	58	?	96
Total	136	64	200

(A) 39   (B) 48   (C) 52   (D) 55   (E) 75

2008 Q9

9. In 2005 Tycoon Tammy invested $100 for two years. During the first year her investment suffered a 15% loss, but during the second year the remaining investment showed a 20% gain. Over the two-year period, what was the change in Tammy's investment?

(A) 5% loss   (B) 2% loss   (C) 1% gain   (D) 2% gain   (E) 5% gain

2009 Q8

8. The length of a rectangle is increased by 10% and the width is decreased by 10%. What percent of the old area is the new area?

(A) 90   (B) 99   (C) 100   (D) 101   (E) 110

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2012 Q8

8. A shop advertises that everything is "half price in today's sale." In addition, a coupon gives a 20% discount on sale prices. Using the coupon, the price today represents what percentage discount off the original price?

(A) 10   (B) 33   (C) 40   (D) 60   (E) 70

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1989 Q9

9. There are 2 boys for every 3 girls in Ms. Johnson's math class. If there are 30 students in her class, what percent of them are boys?

A) 12%   B) 20%   C) 40%   D) 60%   E) $66\frac{2}{3}\%$

3

1990 Q9

9. The grading scale shown is used at Jones Junior High. The fifteen scores in Mr. Freeman's class were: 89, 72, 54, 97, 77, 92, 85, 74, 75, 63, 84, 78, 71, 80, 90.

In Mr. Freeman's class, what percent of the students received a grade of C?

A) 20%   B) 25%   C) 30%   D) $33\frac{1}{3}$%   E) 40%

A:	93 -100
B:	85 - 92
C:	75 - 84
D:	70 - 74
F:	0 - 69

1994 Q9

9. A shopper buys a $100 coat on sale for 20% off. An additional $5 is taken off the sale price by using a discount coupon. A sales tax of 8% is paid on the final selling price. The total amount the shopper pays for the coat is

(A) $81.00   (B) $81.40   (C) $82.00   (D) $82.08   (E) $82.40

1998 Q9

9. For a sale, a store owner reduces the price of a $10 scarf by 20%. Later the price is lowered again, this time by one-half the reduced price. The price is now

(A) $2.00   (B) $3.75   (C) $4.00   (D) $4.90   (E) $6.40

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2010 Q9

9. Ryan got 80% of the problems correct on a 25-problem test, 90% on a 40-problem test, and 70% on a 10-problem test. What percent of all the problems did Ryan answer correctly?

(A) 63   (B) 75   (C) 80   (D) 84   (E) 86

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1995 Q10

10. A jacket and a shirt originally sold for $80 and $40, respectively. During a sale Chris bought the $80 jacket at a 40% discount and the $40 shirt at a 55% discount. The total amount saved was what percent of the total of the original prices?

(A) 45%   (B) $47\frac{1}{2}$%   (C) 50%   (D) $79\frac{1}{6}$%   (E) 95%

2000 Q10

10. Ara and Shea were once the same height. Since then Shea has grown 20% while Ara has grown half as many inches as Shea. Shea is now 60 inches tall. How tall, in inches, is Ara now?

   (A) 48   **(B)** 51   **(C)** 52   **(D)** 54   **(E)** 55

2001 Q10

10. A collector offers to buy state quarters for 2000% of their face value. At that rate how much will Bryden get for his four state quarters?

   (A) $20   (B) $50   (C) $200   (D) $500   (E) $2000