

110 Percent on the ACT

1 -----

1. Bella sells real estate. She is paid 3% of the sale price of every house she sells. What is Bella paid for selling a house at the sale price of \$250,000 ?
- A. \$ 300
 - B. \$ 2,500
 - C. \$ 3,000
 - D. \$ 7,500
 - E. \$75,000

2 -----

2. Disregarding sales tax, how much will you save when you buy a \$12.00 compact disc that is on sale for 25% off?
- F. \$0.30
 - G. \$0.48
 - H. \$3.00
 - J. \$5.00
 - K. \$9.00

3 -----

3. The price of a coat decreased from \$50 to \$40. The price decreased by what percent?
- A. 10%
 - B. 14%
 - C. 15%
 - D. 20%
 - E. 25%

4 -----

4. Jorge's current hourly wage for working at Denti Smiles is \$12.00. Jorge was told that at the beginning of next month, his new hourly wage will be an increase of 6% of his current hourly wage. What will be Jorge's new hourly wage?
- F. \$12.06
 - G. \$12.60
 - H. \$12.72
 - J. \$18.00
 - K. \$19.20

5 -----

5. Simeon ordered graduation announcements from 'Nouncements & Notes. He was charged \$35.00 for his announcements and was charged 8% of that amount for shipping. How much was Simeon charged for his announcements and shipping?
- A. \$35.08
 - B. \$35.70
 - C. \$36.08
 - D. \$37.80
 - E. \$43.00

6 -----

5. Hai has \$100 available to buy USB drives to back up data for his business computers. Each USB drive has a price of \$8, and Hai will pay a sales tax of 7% of the total price of the USB drives. What is the maximum number of USB drives Hai can buy?
- A. 11
 - B. 12
 - C. 13
 - D. 14
 - E. 15

7 -----

7. Dakota bought a pair of shoes that had an original price of \$70.00. The store offered a 20% discount on the original price of the shoes, and Dakota paid 6% sales tax on the discounted price of the shoes. How much did Dakota pay for the shoes, including tax?
- A. \$51.80
 - B. \$52.64
 - C. \$59.36
 - D. \$60.20
 - E. \$79.80

8 -----

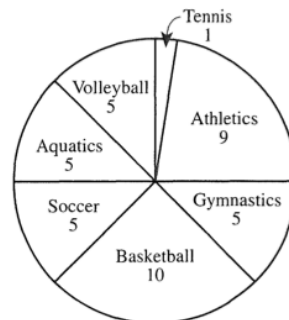
10. At Acme Manufacturing Company, each employee's annual salary for next year will be $3\frac{1}{2}\%$ more than this year's annual salary. An employee whose annual salary this year is \$32,000.00 will have what annual salary next year?
- F. \$32,003.50
 - G. \$32,035.00
 - H. \$32,350.00
 - J. \$33,120.00
 - K. \$41,600.00

9 -----

13. Christopher bought 4 cans of soup for a total of \$3.36, which included sales tax of \$0.16. At the same per-can cost, what is the cost before the sales tax is added for 6 cans of the same soup?
- A. \$0.80
 - B. \$0.84
 - C. \$4.80
 - D. \$5.04
 - E. \$6.40

10 -----

Miriam conducted a survey of the students in her 8th-grade class to determine which of 7 Olympic sports were the most popular. Each student who responded to the survey selected 1 Olympic sport as his or her favorite. The circle graph below shows the number of students who selected each of the 7 Olympic sports. A total of 40 students responded to the survey.



15. To the nearest 0.1%, what percent of the students who responded to the survey selected Basketball?
- A. 10.0%
 - B. 12.5%
 - C. 22.5%
 - D. 25.0%
 - E. 30.0%

11 -----

An organization promoting good nutritional habits collected data on fat calories in foods from 9 fast-food restaurants in Mesa City. The values in the list below represent the number of fat calories in a small order of french fries at each of these fast-food restaurants.

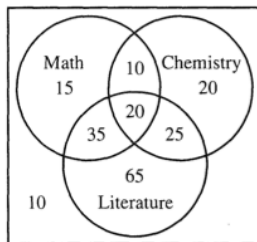
160, 106, 104, 113, 160, 103, 161, 89, 96

19. Of the 9 fast-food restaurants, Hungry Henry's has the lowest number of fat calories in a small order of french fries. At Henry's, 43% of the total number of calories in french fries are fat calories. Which of the following values is closest to the total number of calories in a small order of Henry's french fries?
- A. 127
 - B. 132
 - C. 139
 - D. 207
 - E. 223

12 -----

19. The counselors at Lakewood High School interviewed 200 students to determine placement in 3 different honors courses: Math, Chemistry, and Literature. The numbers of these students placed in these honors courses are shown in the Venn diagram below. Of these 200 students, 10% were placed into all 3 honors courses, and 35% were placed into exactly 2 honors courses. What percent of the students were placed into exactly 1 honors course?

Lakewood High School
Honors Course Placement



- A. 7.5%
- B. 10%
- C. 32.5%
- D. 45%
- E. 50%

13 -----

28. 40% of 250 is equal to 60% of what number?

- F. 150
- G. 160
- H. $166\frac{2}{3}$
- J. 270
- K. 375

Answers:

1. D	2. H	3. D	4. H
5. D	6. A	7. C	8. J
9. C	10. D	11. D	12. E
13. H	14. K	15. D	16. F

14 -----

The table below gives the prices for dog grooming at Pretty Pooches.

Size of dog	Shampoo	Haircut
Small	\$20	\$30
Large	\$35	\$55

34. Jim took his large dog to Pretty Pooches for a haircut 3 times. Jim paid full price for the first 2 haircuts, and had a coupon for the 3rd haircut, giving him a 15% discount on the 3rd haircut. How much did Jim pay for the 3 haircuts?
- F. \$ 99.75
 - G. \$118.25
 - H. \$137.50
 - J. \$150.00
 - K. \$156.75

15 -----

Jin's Office Supply sells different styles of notebooks. The sale price and number of sheets per notebook for 3 styles of notebooks are given in the table below. The sale price is the amount a customer pays for that notebook.

Style of notebook	Number of sheets per notebook	Sale price per notebook
A	50	\$1.00
B	125	\$1.50
C	200	\$2.00

45. The notebook supplier is offering Jin's a Style D notebook that has 60% more sheets than the Style C notebook has. How many sheets does the Style D notebook have?
- A. 200
 - B. 260
 - C. 275
 - D. 320
 - E. 350

16 -----

A storage facility is currently offering a special rate to customers who sign contracts for 6 months or more. According to this special rate, the first month's rent is \$1, and for each month after the first month, customers pay the regular monthly rental rate. The table below shows the storage unit sizes available, the floor dimensions, and the regular monthly rental rate. All the units have the same height.

Size	Floor dimensions, in meters	Regular monthly rental rate
1	2 × 4	\$ 30
2	4 × 4	\$ 60
3	4 × 8	\$100
4	8 × 8	\$150
5	8 × 16	\$200

54. Daria will sign a contract to rent a Size 3 unit for 12 months at the current special rate. The amount Daria will pay for 12 months at the current special rate represents what percent decrease from the regular rental rate for 12 months?
- F. 8.25%
 - G. 8.33%
 - H. 8.42%
 - J. 9.00%
 - K. 9.09%