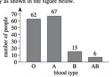


## ACT Boot Camp 1-10

Score:

- 1.

- 2



If 1 person from this study is randomly selected, what is the probability that this person has either Type A or Type AB blood?

- A.  $\frac{62}{150}$
- B. 66/150
- C.  $\frac{68}{150}$
- **D.**  $\frac{73}{150}$
- E.  $\frac{84}{150}$
- 2. The monthly fees for single rooms at 5 colleges are \$370, \$310, \$380, \$340, and \$310, respectively. What is the mean of these monthly fees?
  - F. \$310 G. \$340 H. \$342 J. \$350 K. \$380

- 3. On a particular road map,  $\frac{1}{2}$  inch represents 18 miles. About how many miles apart are 2 towns that are  $2\frac{1}{2}$  inches apart on this map?
  - A. 18
  - B.  $22\frac{1}{2}$
  - C. 36
  - D. 45
  - E. 90
- **4.** Given  $f = cd^3$ , f = 450, and d = 10, what is c?
  - F. 0.45 G. 4.5 H. 15 J. 45 K. 150

- 5. 5
- В

- 6. 6
- G

- 7
- В
- D D
- 8. 8
- G

- 9

- Ε

- 5. If  $f(x) = (3x + 7)^2$ , then f(1) = ?
- 16 58 79 B. C. D. 100
- 6. 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
- 7. The first term is 1 in the geometric sequence 1, -3, 9, -27, .... What is the SEVENTH term of the geometric sequence?

  - A. -243 B. -30 C. 81 D. 189 E. 729

8. The shipping rate for customers of Ship Quick consists of a fee per box and a price per pound for each box. The table below gives the fee and the price per pound for customers shipping boxes of various weights.

Weight of box (pounds)	Fee	Price per pound
Less than 10	\$ 5.00	\$1.00
10-25	\$10.00	\$0.65
More than 25	\$20.00	\$0.30

- Gregg wants Ship Quick to ship 1 box that weighs 15 pounds. What is the shipping rate for this box?

  F. \$ 9.75
  G. \$16.50
  H. \$19.75
  J. \$20.00
  K. \$24.50

- 9. A computer chip 0.32 cm thick is made up of layers of silicon. If the top and bottom layers are each 0.03 cm thick and the inner layers are each 0.02 cm thick, how many inner layers are there?

- 10. 10
- $\bigcirc$ A
- (B) (
- (c) H
- (E) K

10. The table below shows the number of cars Jing sold each month last year. What is the median of the data in the table?

Month	Number of cars sold
January	25
February	15
March	22
April	19
	16
June	13
July	19
	25
	26
October	27
November	28
December	29
	February March April May June July August September October November

F. G. H. J. K.