1. Which Figure could be assembled from the cutout below?



2. If Gear A turns in the direction indicated by the arrow, which way will gear C turn?



- A. Clockwise
- B. Counterclockwise
- C. Same direction as gear A
- D. Opposite direction as gear B

- 3. A dimension on a print is shown as 0.545/0.535. What is the upper limit of the given dimension?
  - A. 0.535
  - B. 0.545
  - C. 0.540
  - D. 0.550
- 4. What is the largest diameter on this aluminum bar?



- A. 0.575
- B. 0.9
- C. 1.4
- D. 0.4

5. According to this Print Title block. What is the material required for this part?



- A. TBD
- B. Steel
- C. CRS
- D. Copper
- 6. Express 9/7 as a mixed number
  - A. 7/9
    B. 1 1/9
    C. 1 1/7
    D. 1 2/7
- 7. 7/8 1/4 =
  - A. 1/4
    B. 3/8
    C. 1/2
    D. 5/8



- 8. In the accompanying figure, what is the length of dimension E? All dimensions are in inches.
  - A. 1.603
  - B. 1.306
  - C. 1.357
  - D. 1.426
- 9. Express 1/5 as a percent
  - A. 20%
  - B. 25%
  - C. 40%
  - D. 50%
- 10. 1/2 + 3/8 1/5 =
  - A. 1/20B. 9/10C. 4/5D. 27/40

11. What is the lowest common denominator of 1/2, 3/4, and 2/5?

- A. 2
- B. 13
- C. 11
- D. 20

12. Solve and round to four decimal places, 4.699 x 1.011 =

- A. 4.1123
- B. 4.7506
- C. 4.7507
- D. 4.3827

13.The \_\_\_\_\_\_ denominator is the smallest denomination that is evenly divisible by each of the denominators of the fractions being added.

- A. Lowest common
- B. Whole number
- C. Mixed number
- D. None of the above



- 14.Read measurement M on the fractional-inch rule shown in the accompanying figure.
  - A. 3/4
  - B. 49/64
  - C. 25/32
  - D. 51/64