## Entrance Exam Sample Test

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

(A)
(B)
(c)
(D)

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?

|  |  |  |
| :---: | :---: | :---: |
|  |  |  |
| \%ex : | ${ }^{24}$ Steel | TBD |
|  | Sns | \% |
|  | Angle Plate | A |

A. TBD
B. Steel
C. CRS
D. Copper
6. Express $9 / 7$ as a mixed number
A. $7 / 9$
B. $11 / 9$
C. $11 / 7$
D. $12 / 7$
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. $1 / 20$
B. $9 / 10$
C. $4 / 5$
D. $27 / 40$
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, $4.699 \times 1.011=$
A. 4.1123
B. 4.7506
C. 4.7507
D. 4.3827
13.The $\qquad$ 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. $51 / 64$

