

## 2025 June AMC 10 Week 2 Day 2 - Word Problems 1

1

( 1分 ) A manufacturing plant must produce **2,220** precision components. Three workers have different production rates, with their individual times to complete the task alone in the ratio **4 : 5 : 6**. If they collaborate simultaneously to finish the order, how many components does each worker produce by the time the job is completed?

- A. 800, 720, 700    B. 900, 820, 500    C. 740, 740, 740    D. 960, 660, 600    E. 900, 720, 600

2

( 1分 ) A delivery person needs to transport a package between two towns within a specified timeframe. Riding a motorcycle at **15km/h** allows arrival **24** minutes early, while riding at **12km/h** causes a **15**-minute delay. What is the distance between the two towns?

- A. 15    B. 24    C. 39    D. 48    E. 60

3

( 1分 ) Two alloys contain copper and zinc in the ratios **3 : 4** and **5 : 3** respectively. If equal weights of both alloys are melted together, what is the new ratio of copper to zinc in the combined alloy?

- A. 59 : 53    B. 56 : 53    C. 49 : 53    D. 56 : 43    E. 49 : 43

4

( 1分 ) At a school club, if the number of male members decreases by one-third, the total membership becomes **22**. If the number of female members increases by one-third, the total membership becomes **32**. How many members are in the club?

- A. 24    B. 26    C. 28    D. 30    E. 32

5

( 1分 ) An electronics store offers a promotion: "For every **\$300** spent, receive a **\$50** gift card." Any amount over **\$300** but less than the next **\$300** is ignored. Gift cards can be used like cash for future purchases but cannot be combined with the promotion. A customer first buys a laptop

for \$1000, receives gift cards, then uses those gift cards plus \$280 cash to buy a tablet. What discount percentage did the customer effectively get on both purchases?

A. 9%

B. 10.5%

C. 11.15%

D. 13.7%

E. 15%