

2025 June AMC 10 Week 2 Day 3 - Word Problems 2

- (1分) Alex and Sam are discussing their ages. Alex states, "When I was your current age, you were only 4 years old!" Sam responds, "And when I reach your current age, you will be 61!"

 What are their current ages?
 - A. 42,23
- B. **42**, **43**
- C. 30,60
- D. 21, 32
- E. 4,61
- 2 (1分) Harold baked a colossal blueberry pie for a barbecue. He first ate $\frac{1}{6}$ of it, then divided the remainder equally among his 4 friends. Each friend ate $\frac{1}{3}$ of their portion. Later, a raccoon arrived and devoured $\frac{1}{5}$ of the remaining pie. Finally, a fox consumed $\frac{2}{9}$ of the raccoon's remaining pie. What fraction of the original pie remains intact?
 - A. $\frac{1}{5}$
- B. $\frac{2}{9}$
- C. $\frac{9}{28}$
- D. $\frac{28}{81}$
- E. $\frac{34}{81}$
- (1分) Three cups, Cup A, B, and C, contain 10 grams, 20 grams, and 30 grams of water respectively. A 10-gram solution of sugar water is poured into Cup A. After mixing thoroughly, 10 grams of the mixture is transferred to Cup B. This process is repeated: 10 grams from Cup B is then transferred to Cup C. The final concentration of sugar in Cup C is 0.5%. What was the initial concentration of the sugar water poured into Cup A?
 - A. 9%
- B. 10%
- C. 11%
- D. 12%
- E. 13%
- (1分) A retail store sells a product at its original price, earning a profit of 25% of the cost price.

 Later, the store reduces the price to 90% of the original price. Despite this reduction, the total profit increases by 25% compared to the original profit. What is the multiple of the new sales quantity relative to the original sales quantity?
 - A. 1
- B. 1.5
- C. 2
- D. 2.5
- E. 3

(1分) Tom took a rope, folded it once, then cut it at the midpoint, resulting in 3 pieces. When he folded the rope twice and cut once at the midpoint, it became 5 pieces. If Tom folds the rope 4 times and cuts 3 times, how many pieces will the rope be cut into?

A. 46

B. 47

C. 48

D. 49

E. 50

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