

AMC 8, 2020, Problem 1

Luka is making lemonade to sell at a school fundraiser. His recipe requires 4 times as much water as sugar and twice as much sugar as lemon juice. He uses 3 cups of lemon juice. How many cups of water does he need?

- (A) 6 (B) 8 (C) 12 (D) 18 (E) 24

AMC 8, 2020, Problem 2

Four friends do yardwork for their neighbors over the weekend, earning \$15, \$20, \$25, and \$40, respectively. They decide to split their earnings equally among themselves. In total how much will the friend who earned \$40 give to the others?

- (A) \$5
(B) \$10
(C) \$15
(D) \$20
(E) \$25

AMC 8, 2020, Problem 3

Carrie has a rectangular garden that measures 6 feet by 8 feet. She plants the entire garden with strawberry plants. Carrie is able to plant 4 strawberry plants per square foot, and she harvests an average of 10 strawberries per plant. How many strawberries can she expect to harvest?

- (A) 560
(B) 960
(C) 1120
(D) 1920
(E) 3840

AMC 8, 2020, Problem 5

Three fourths of a pitcher is filled with pineapple juice. The pitcher is emptied by pouring an equal amount of juice into each of 5 cups. What percent of the total capacity of the pitcher did each cup receive?

- (A) 5
(B) 10
(C) 15
(D) 20
(E) 25

AMC 8, 2020, Problem 7

How many integers between 2020 and 2400 have four distinct digits arranged in increasing order? (For example, 2347 is one integer.)

- (A) 9
- (B) 10
- (C) 15
- (D) 21
- (E) 28

AMC 8, 2020, Problem 13

Jamal has a drawer containing 6 green socks, 18 purple socks, and 12 orange socks. After adding more purple socks, Jamal noticed that there is now a 60% chance that a sock randomly selected from the drawer is purple. How many purple socks did Jamal add?

- (A) 6
- (B) 9
- (C) 12
- (D) 18
- (E) 24

AMC 8, 2020, Problem 15

Suppose 15% of x equals 20% of y . What percentage of x is y ?



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