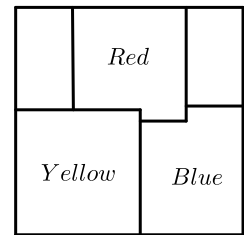


2025 August AMC 8 Week 2 Day 2 - Word Problems with Equation

- 1 In a large square with side length not exceeding 8 cm , as shown in the figure, three square sheets of paper, each with an area of 20 cm^2 , are placed inside. The total area covered by these three sheets is 44 cm^2 . What is the area of the large square in square centimeters?



- 2 Amy is reading a novel. She read 1 page on the first day, 2 pages on the second day, 3 pages on the third day, etc, until the total of pages she has read is a multiple of 90. How many pages does she read in total by then?

- 3 When computing $m - n$, Yannie mistakenly read the '-' sign as a '+' sign. As a result, her answer differed from the correct answer by 2016. If n is positive, What is the value of n ?

- 4 In a kindergarten, there are three classes. Class A has 4 more students than Class B , and Class B has 4 more students than Class C . When distributing dates to the children: Each child in Class A receives 3 fewer dates than each child in Class B ; each child in Class B receives 5 fewer dates than each child in Class C . As a result: Class A , in total, receives 3 more dates than Class B ; Class B , in total, receives 5 more dates than Class C . How many dates were distributed to the three classes in total?

A. 44 B. 47 C. 49.8 D. 51.2 E. 53.4

A. 580 B. 600 C. 630 D. 650 E. 680

A. 1005 B. 1006 C. 1007 D. 1008 E. 1009

A. 670 B. 673 C. 676 D. 680 E. 682

5

On a certain bus route, there are **10** intermediate stops. There are two types of buses: express and local. The express bus travels at **1.2** times the speed of the local bus. The local bus stops at every station, while the express bus stops only at **1** intermediate station. The stop time at each station is **3** minutes. On one occasion, the local bus departs first. Forty minutes later, the express bus departs from the same starting station, and the two buses arrive at the terminal at the same time. How much time does the express bus take from the starting point to the terminal?

A. 68

B. 67

C. 66

D. 65

E. 64