

March 24th

The sums of four numbers, omitting each of the numbers in turn are 22, 24, 27 and 20.

$$a + b + c = 22$$

$$b + c + d = 24$$

$$c + d + a = 27$$

$$d + a + b = 20$$

Adding all 4 equations gives

$$3a + 3b + 3c + 3d = 93$$

Hence

$$a + b + c + d = 31$$

Comparing this to each equation in turn:

$$\mathbf{a = 7}$$

$$\mathbf{b = 4}$$

$$\mathbf{c = 11}$$

$$\mathbf{d = 9}$$