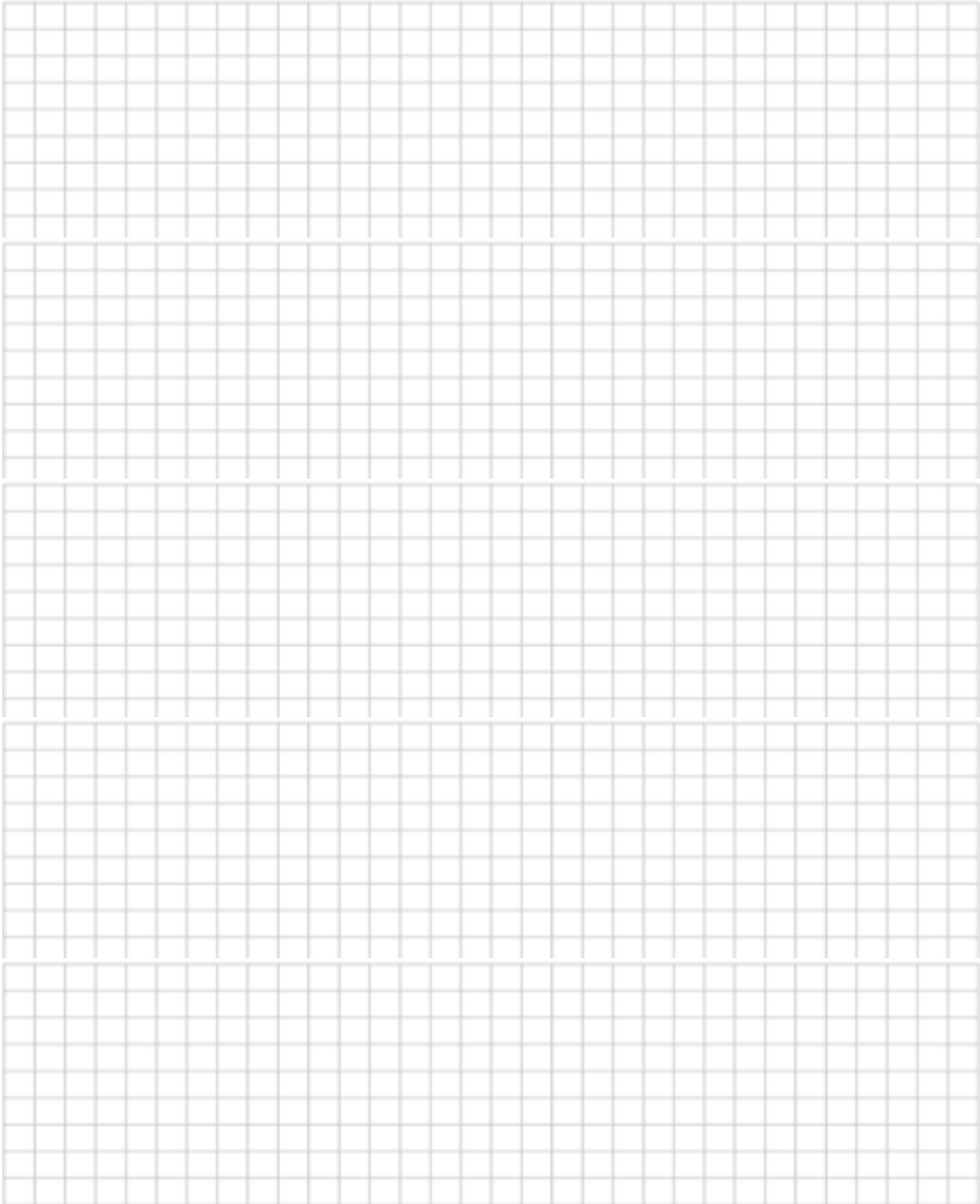






- 3.) The circle  $x^2 + y^2 + ax + by + c = 0$  passes through the points  $(1, 0)$ ,  $(1, 2)$  and  $(2, 1)$ . Find the values of  $a$ ,  $b$ , and  $c$ .

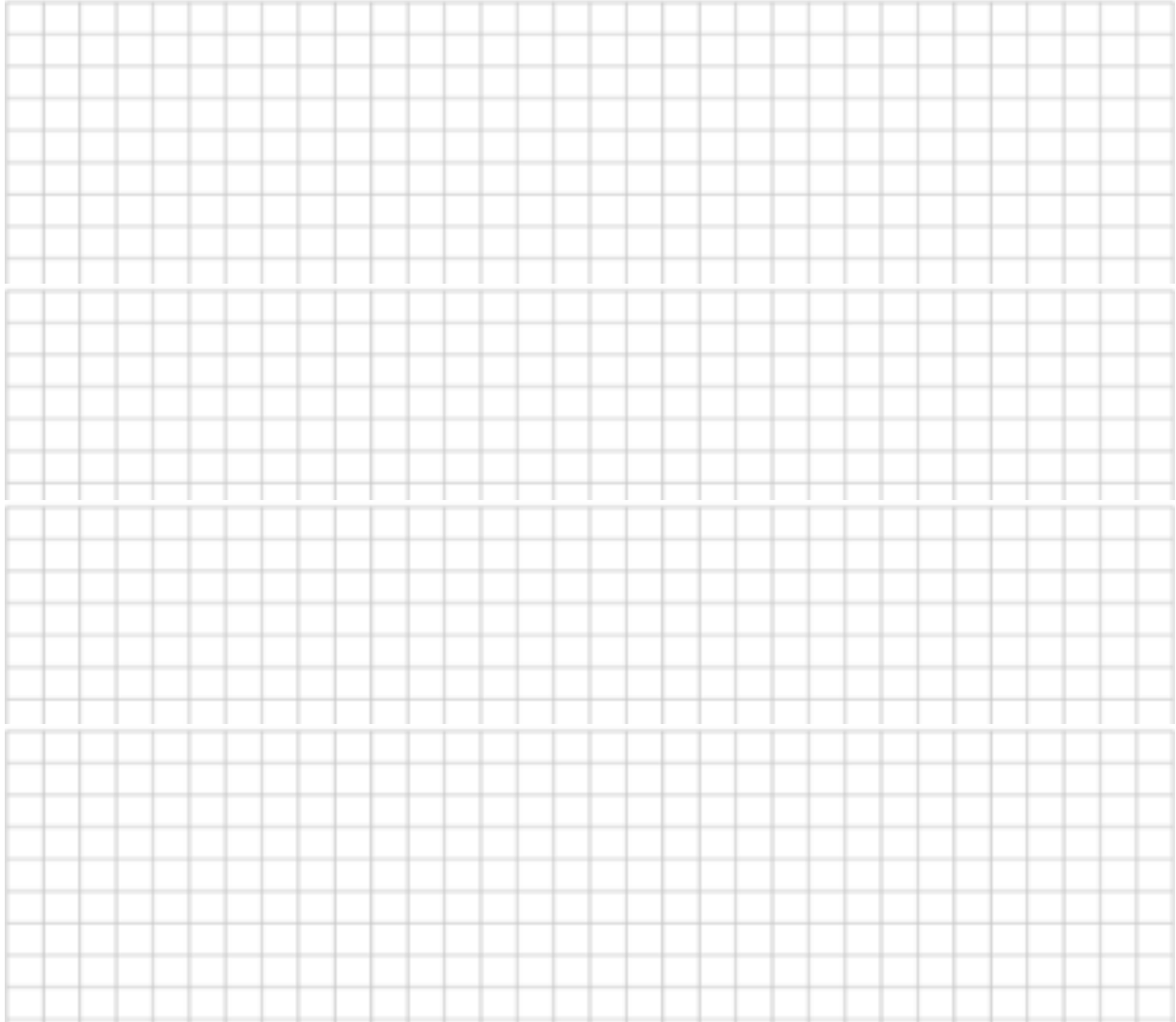


4.) Solve to find x, y, z :

$$\frac{x}{3} + \frac{y}{2} - z = 7$$

$$\frac{x}{4} - \frac{3y}{2} + \frac{z}{2} = -6$$

$$\frac{x}{6} - \frac{y}{4} - \frac{z}{3} = 1$$



5.) 44 000 people attended a match in Croke Park. The two ticket prices on the day were €30 and €20. The total receipts for the game came to €1.2 million.  
How many people paid the higher ticket price?

