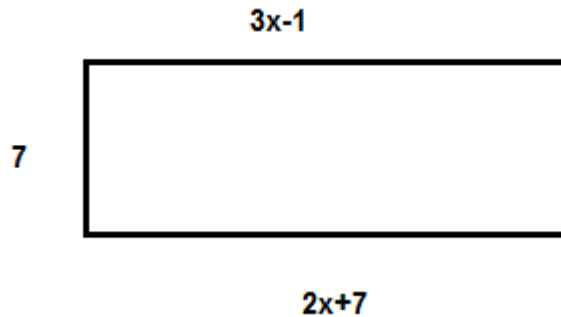


SAMPLE 1

**ENTRANCE EXAM IN MATHEMATICS
I YEAR**

1. This is a rectangle. Work out x and hence find the perimeter of the rectangle.



[20]

2. Write down the equation of the straight line through $(0,3)$ which is parallel to $y = 2x + 3$.

[20]

3. Solve inequality

$$\frac{4-x}{3} + \frac{x-1}{2} - \frac{1}{6} > 0$$

[20]

4. Work out without calculator

$$\left[\left(\frac{3}{4} + 0.25 \right) : 2 - \frac{1}{8} : 0.5 \right] \cdot \frac{13}{4} + \frac{19}{16}$$

[20]

5. In a sale a shop reduces all its prices by 20%. Find the sale price of a sari which previously cost \$44.

[20]