SAMPLE 2

ENTRANCE EXAM IN MATHEMATICS
I YEAR

1. The angles of a triangle are $32°, x°$ and $(4x + 3)°$. Find the value of $x°$.

[20]

2. A straight line l crosses the $x - axis$ at $(2,0)$ and the $y - axis$ at $(0,4)$. Write down the equation of the line l, in the form $y = mx + c$.

[20]

3. Solve inequality

$$\frac{2-x}{2} - \frac{3}{4} - \frac{x}{4} > \frac{2x-3}{2}$$

[20]

4. Work out without calculator

$$\frac{\left[\frac{1}{3} \cdot \left(2.5 - \frac{7}{4}\right)\right] \cdot 2}{\left[\left(1 - \frac{3}{4}\right) : 0.75\right] \cdot 3}$$

[20]

5. A coat originally cost $\$24$. Calculate the new price after a 5% reduction.

[20]