

F Michaelmas Intro Sheet

A selection of questions based on material you will (hopefully) have covered for common entrance. Everything *without a calculator*.

1. Evaluate (work out)

(a) $5.3 - 1.097$.

(b) 1.1×0.012 .

(c) $3.8 + 5 \times 3.1$.

(d) $\frac{4}{5} \times \frac{5}{7} \times 1\frac{3}{4}$.

(e) $(1 - (2 - (3 - 4)))$.

2. If $a = -2$, $b = 0.3$ and $c = 4$, evaluate

(a) ab .

(b) $-\frac{a}{c}$.

(c) $b - a^2$.

(d) $2c^2$.

3. Round 0.003567 to two significant figures.

4. Solve

(a) $3x + 7 = 6x - 9$.

(b) $x - \frac{x-1}{2} = 3$.

5. An isosceles triangle has side lengths of 10cm, 12cm, 10cm. Find its area.

6. A circle has area 200cm^2 . Find its radius. (You can use a calculator here.)

7. Find the distance between the points (2,3) and (1,1) to two decimal places. (You can use a calculator here.)