26th September

Corbettmaths

Work out

$$5\frac{1}{2} \times 1\frac{2}{3}$$

Give your answer as a mixed number.

$\frac{11}{2} \times \frac{5}{3} = \frac{55}{6}$

$9\frac{1}{6}$

Calculate the density of block of metal with volume 40cm³ and mass 220g

$d = \frac{m}{v} = \frac{220}{40}$

$5.5\ g/cm^3$

Solve the inequality $3(x - 4) \leq 18$

$3x - 12 \leq 18$

$3x \leq 30$

$x \leq 10$

A line has equation $y = 3x - 12$

Write down the point where the line crosses the y-axis.

$(0, -12)$

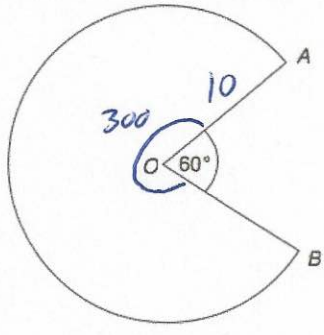
Write down the point where the line crosses the x-axis.

$0 = 3x - 12$

$3x = 12$

$x = 4$

$(4, 0)$



$\frac{300}{360} = \frac{5}{6}$

Angle AOB is 60° and OA is 10cm.
Find the perimeter of the sector.

$\frac{5}{6}(\pi \times d)$

$\frac{5}{6}(\pi \times 20) = 52.359...$

$52.359 + 10 + 10 = 72.36cm$