

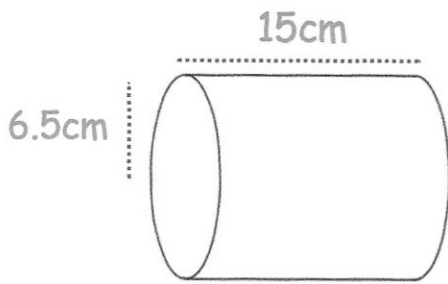


Make m the subject

$$w = \frac{m}{8} + 3c$$

$$8w = m + 24c$$

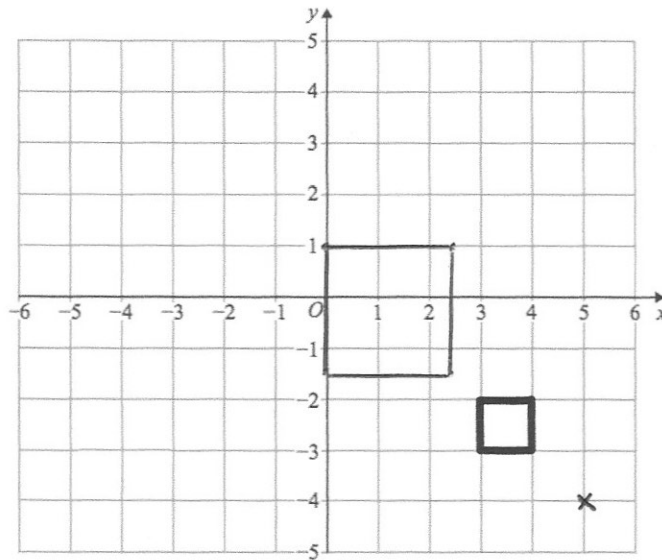
$$m = 8w - 24c$$



Calculate the volume of the cylinder.

$$\pi \times 6.5^2 \times 15$$

$$= 1990.98... \text{ cm}^3$$



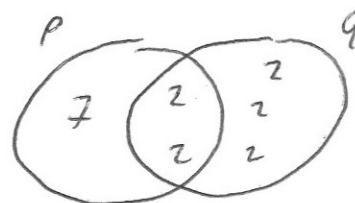
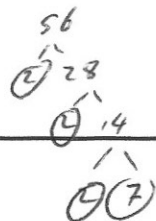
Enlarge the square by scale factor $\frac{5}{2}$ using centre of enlargement (5, -4)

The highest common factor (HCF) of p and q is 4.

The lowest common multiple (LCM) of p and q is 224.

$$224 \div 4 = 56$$

Find p and q.



$$P = 28, Q = 32$$

Other possible answers exist, such as $P = 4, Q = 224$ or $Q = 4, P = 224$