

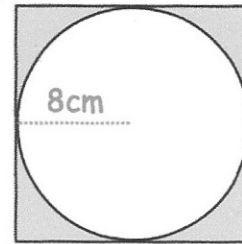


Calculate the shaded area

$$16 \times 16 = 256$$

$$\pi \times 8^2 = 201.06\dots$$

$$54.94 \text{ cm}^2$$



Solve

$$x^2 + 8x + 16 = 0$$

$$(x + 4)(x + 4) = 0$$

$$x = -4$$

Shop A
50% extra free



Only £40

Shop B
Buy one get the second
HALF PRICE



Normal price £40
for 100ml

£60 for 200ml

Two shops sell the same type of perfume.

A 100ml bottle of perfume normally costs £40.

Shop A offer 50% extra free.

In Shop B, a customer can buy one and get the second half price.

Olivia says that both offers give the same value for money.

Is she correct? Show your working.

Shop A

$$4000 \div 150 = 26.6 \text{ p per ml}$$

Shop B

$$6000 \div 200 = 30 \text{ p per ml}$$

Shop A is better value

Find the size of angle ABC.

$$\sin x = \frac{36}{40}$$

$$x = 64.158^\circ$$

