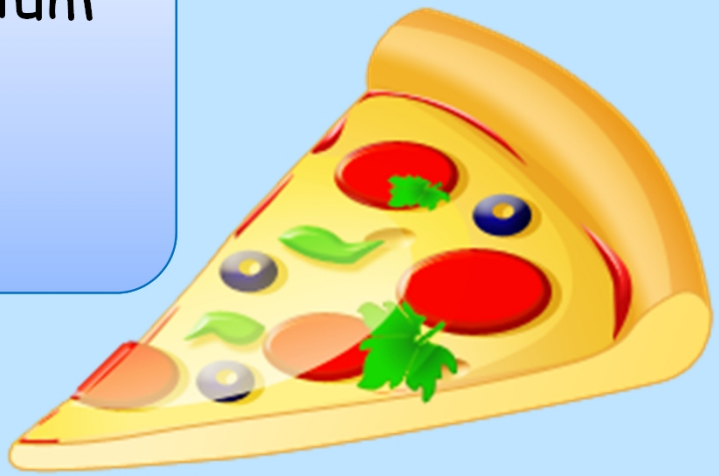
LO: Solve problems by calculating the area of a circle.

12" family-sized pizza

£5.99

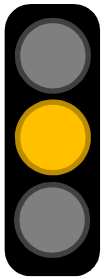
Two 8" medium pizzas

£5.99



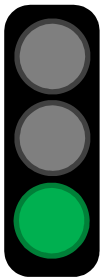
Task

By calculating the area of each pizza, work out which deal is best value for money.



Challenge

The family-sized pizza is cut into 12 slices. Which gets you more pizza, $\frac{1}{2}$ of a medium pizza or 3 slices of the family-sized pizza?



LO: Solve problems by calculating the area of a circle.

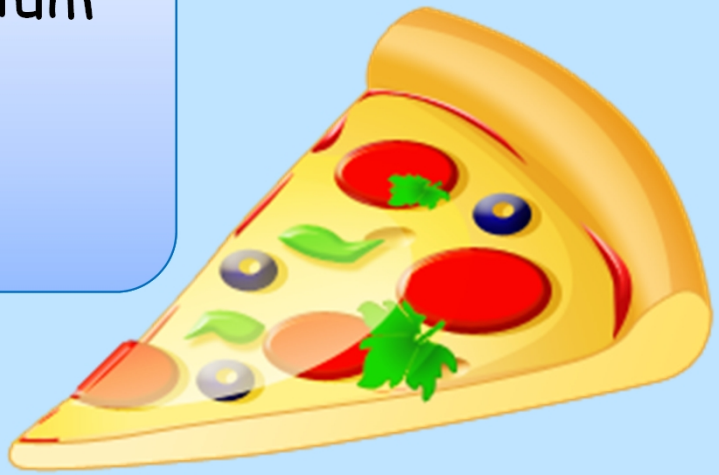
12" family-sized pizza

Best deal!

£5.99

Two 8" medium pizzas

£5.99



Diameter = 12in
Radius = 6in

Area = $\pi \times 6 \times 6 = 113in^2$

Diameter = 8in
Radius = 4in

Area = $\pi \times 4 \times 4 = 50.26...in^2$
So area of 2 pizzas = $101in^2$

LO: Solve problems by calculating the area of a circle.

12" family-sized pizza

Best deal!

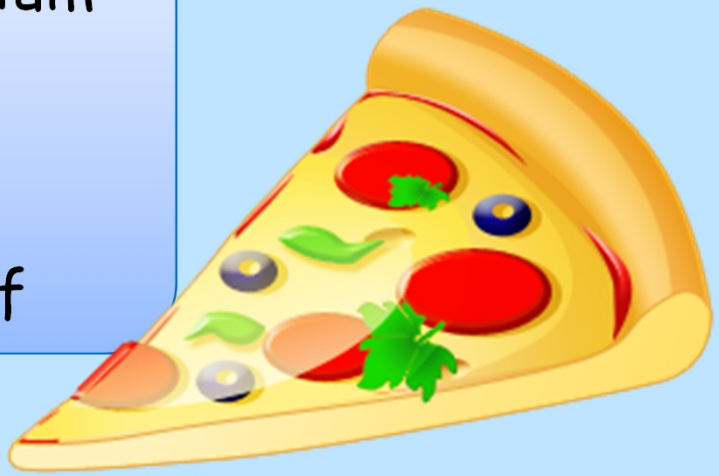
£5.99

Cut into 12 slices

Two 8" medium pizzas

£5.99

Cut in half



2 slices = 1/6 of the pizza

Area = 113 ÷ 6 = 18.8in²

Area of 1 pizza = 50.3in²

Area of $\frac{1}{2}$ pizza = 12.6in²