

# AREA OF A CIRCLE

## SKILLS QUESTIONS



Q1. A pizzeria makes pizzas of three sizes – small, regular and large. The radius of each size is:  
 Small - 10 cm  
 Regular - 12 cm  
 Large - 14 cm  
 What is the area (in  $\text{cm}^2$ ) of each so the chef can estimate the amount of tomato sauce used?

Q2. A round garden with a diameter of 20 metres requires fertilizer. One packet of fertilizer covers 300 square metres. How many packets will be needed?

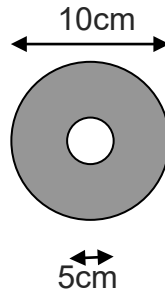
Q3. A ship has 25 portholes (round glass windows). Each porthole has a radius of 6 cm. What is the total cost of the glass if the price per square metre is \$30?



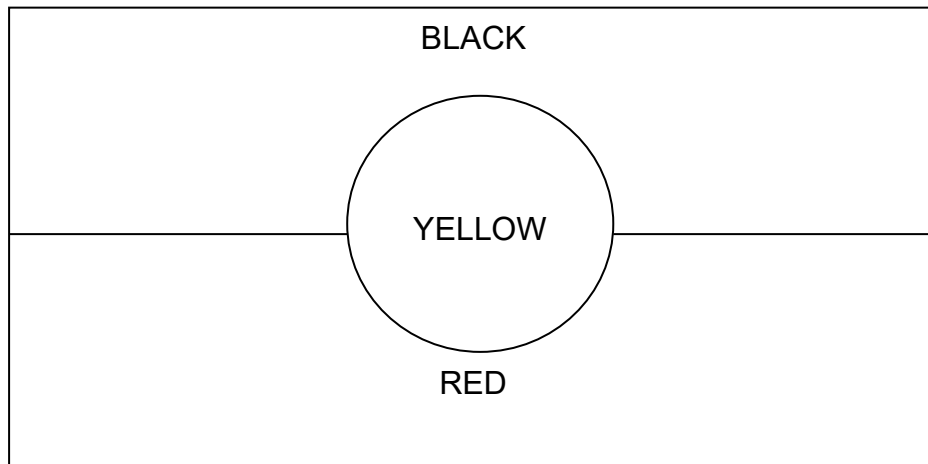
← 34 m →

Q4. A semi-circular timber dance stage has a diameter of 34 metres. What is the total timber flooring cost at \$76.80 per square metre?

Q5. A metal washer has an outer diameter of 10cm and an inner diameter of 5 cm. What is the area of metal in one washer?



Q6. Calculate the area of each colour in this flag.  
 The dimensions of the rectangular flag are 12 metres by 6.2 metres.  
 The diameter of the circle is 3.8 metres.



# ANSWERS

Q1. Small = 314  
Regular = 452.16  
Large = 615.44

Q2. 1.05 rounded up to 2 packets

Q3. \$8.48

Q4. \$34846.46

Q5.  $58.88\text{cm}^2$

Q6. Yellow =  $11.34\text{m}^2$   
Black, Red =  $31.53\text{m}^2$