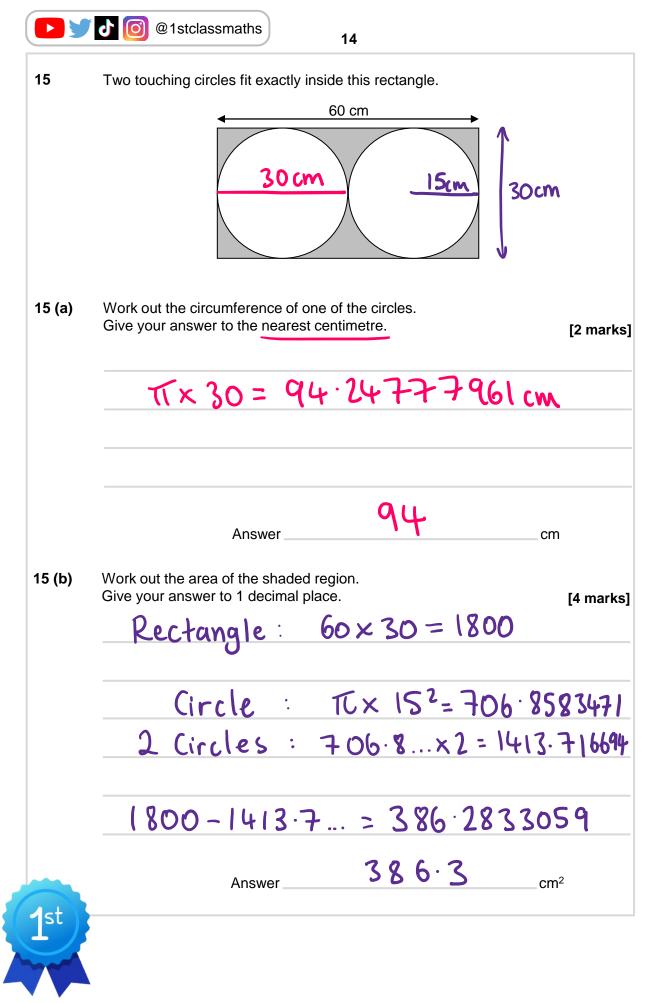


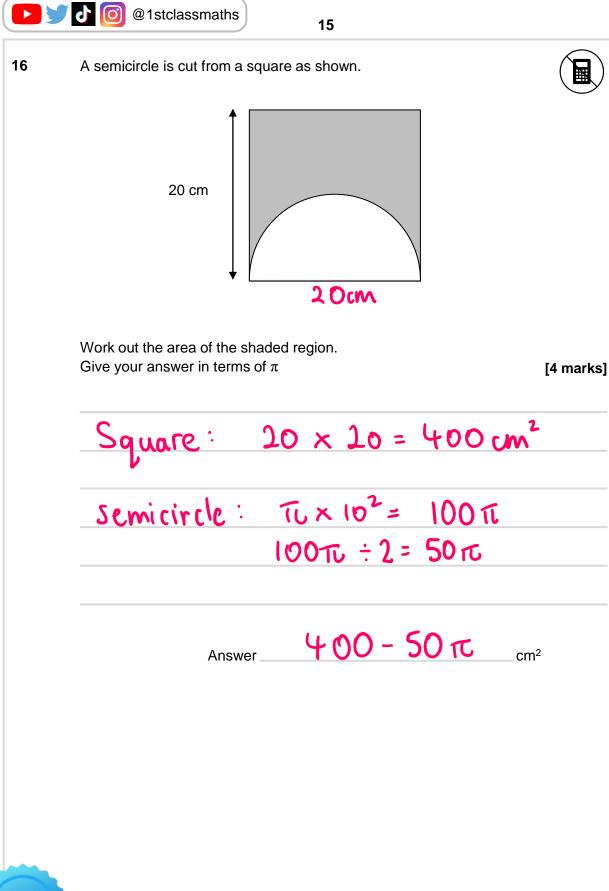


13 A running track is made from two straight sections and two semicircles. 80 m 60 m The straight sections are 80 m long. The semicircles both have a diameter of 60 m. Work out the total length of the running track. 13 (a) Give your answer to the nearest metre. [3 marks] gives and $TT \times 60 = 188.4955592$ 88.4... +80+80 = 348.495... 348 Answer m 13 (b) The inside of the running track is covered with grass. Work out the area of the grass on the inside of the running track. Give your answer to 1 decimal place. [3 marks] Circle: $\pi \times 30^2 = 2827.433388$ Rectangle: 60 x 80 = 4800 4800 + 2827.4... = 7627.433887627.4 Answer m² 1st



13 14 The diameter of Lenny's bike wheel is 62 cm. 62 cm Lenny rides his bike 800 metres. Work out how many complete revolutions his bike wheel will complete. [4 marks] (one revolution) TC x 62 = 194.7787445 cm 800 m = 80000 cm $80000 \div 194.7... = 410.7224338$ 410 Answer 10 1st Turn over ►

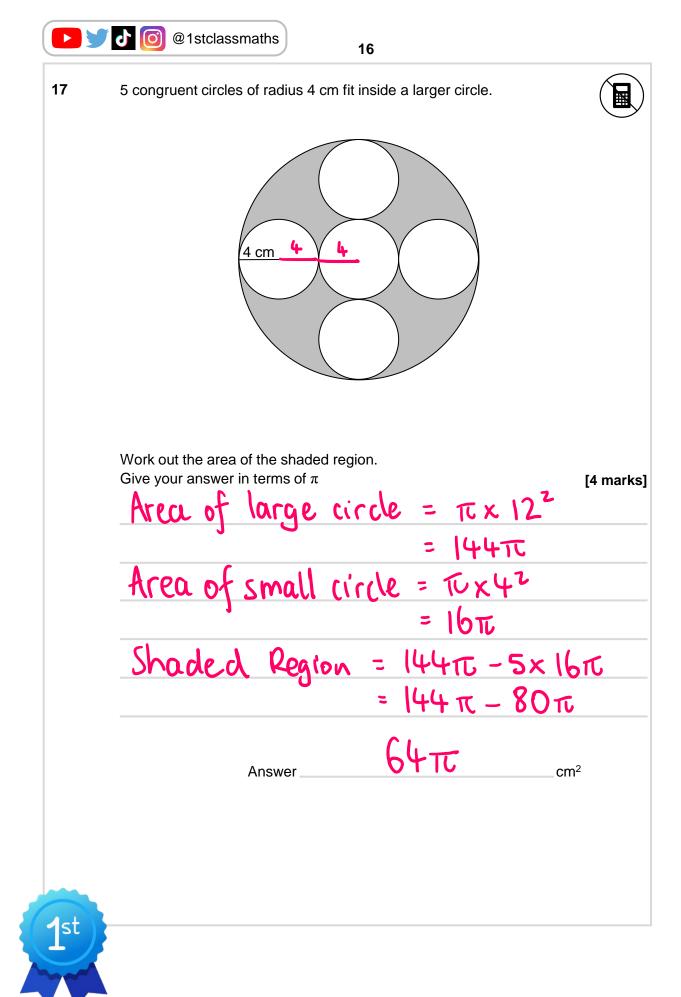






10

Turn over ►





r

A design is made by placing a semicircle on top of a square. 18

$$48 \text{ cm} \qquad 2r \qquad 12r$$
The total height of the design is 48 cm.
Work out the total area of the design.
Give your answer to 1 decimal place. [4 marks]

$$3r = 48 \qquad radius = 16 \qquad [4 marks]$$

$$3r = 16 \qquad diameter = 32$$

$$32 \times 32 = 1024$$
Semicircle : $T \times 16^2 = 804 \cdot 1477193$

$$804 \cdot 2 \qquad \div 2 = 402 \cdot 1238591$$

- 14.19.15.386 10 24 + 40 1.16...

1426.1

Answer



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8

cm²