

CIRCLES

$$1) \frac{40}{360} \times \pi \times 7^2 = \frac{49\pi}{9} = 17.1 \text{ cm}^2 \quad (3 \text{ st}),$$

$$2) \frac{150}{360} \times 20\pi + \frac{20\pi}{3} = 46.2 \text{ cm} \quad (3 \text{ st}).$$

$$3) \frac{90}{360} \times \pi \times 4^2 - \frac{1}{2} \times 4^2 = 4\pi - 8 = 4.57 \text{ cm}^2 \quad (3 \text{ st}).$$

$$4) 26 + 3\pi = 35.4 \text{ cm} \quad (3 \text{ st}).$$

$$5) a) 0.5 \text{ m}.$$

$$b) 2 + \frac{\pi}{2} \times 0.5^2 = 2.39 \text{ m}^2 \quad (3 \text{ st})$$

$$6) \frac{192}{\pi} = 61.1 \text{ m} \quad (3 \text{ st}).$$

$$7) 36^2 - \pi \times 18^2 = 278 \text{ cm}^2 \quad (3 \text{ st})$$

$$8) a) \frac{40}{360} \times \pi \times 7^2 = \frac{49\pi}{9} = 17.1 \text{ cm}^2 \quad (3 \text{ st})$$

$$b) 14 + \frac{40}{360} \times 14\pi = 18.9 \text{ cm} \quad (3 \text{ st})$$

