

## Prisms and Cylinders – Answers

### Prisms and Cylinders

- 1) (a) (i)  $60\text{cm}^2$  (ii)  $1500\text{cm}^3$  (b) (i)  $120\text{cm}^2$  (ii)  $4800\text{cm}^3$   
(c) (i)  $2700\text{cm}^2$  (ii)  $675000\text{cm}^3$  (d) (i)  $600\text{cm}^2$  (ii)  $72000\text{cm}^3$
- 2) (a)  $4021.2\text{cm}^3$  (b)  $3392.9\text{cm}^3$  (c)  $188495.6\text{cm}^3$
- 3)  $25\text{cm}$
- 4)  $20\text{cm}^2$
- 5) (a)  $78.5\text{cm}^2$  (b)  $12.7\text{cm}$

### Cylinders

- 1) (a)  $13571.7\text{cm}^3$  (b)  $353429.2\text{cm}^3$
- 2) (a)  $2261.9\text{cm}^2$  (b)  $28274.3\text{cm}^2$
- 3) (a)  $3166.7\text{cm}^2$  (b)  $32201.3\text{cm}^2$
- 4) (a) (i)  $11.9\text{cm}$  (ii)  $2400\text{cm}^3$   
(b) (i)  $7.16\text{cm}$  (ii)  $9000\text{cm}^3$   
(c) (i)  $10.6\text{cm}$  (ii)  $4244.1\text{cm}^3$
- 5) (a) (i)  $7.64\text{cm}$  (ii)  $240\text{cm}^2$   
(b) (i)  $125\text{cm}^2$  (ii)  $6.31\text{cm}$  (iii)  $317.1\text{cm}^2$
- 6) (a)  $603.2$  litres (b)  $33.8\text{cm}$  (c) (i)  $35185\text{cm}^2$  (ii)  $3.5185\text{m}^2$  (d) 3 cans
- 7) (a)  $339.3\text{cm}^3$  (b)  $3.393$  litres (c)  $17.7$  seconds
- 8)  $11309.7\text{cm}^3$
- 9) (a)  $9236.3\text{cm}^3$  (b)  $6785.8\text{cm}^3$  (c)  $2450\text{cm}^3$