

Answers

1. (a) 3054 cm^3 (b) 505 cm^3 (c) 3820 cm^3 (d) 589 m^3
(e) 26.4 m^3 (f) 407 cm^3 (g) 1150 cm^3 (h) 4055 cm^3
(i) 34.9 m^3

2. (a) 524 cm^3 (b) 20.9 cm^3 (c) 503 cm^3 (d) 75.4 m^3
(e) $33\,510 \text{ m}^3$ (f) 283 m^3 (g) 137 m^3 (h) 192 cm^3
(i) 127 m^3

3. 92 cm^3 4. 20.5 m^3 5. 74.3 m^3

6. 38.8 cm^3 7. 94.2 cm^3 8. $57\,906 \text{ cm}^3$

9. $14\,137 \text{ cm}^3$ 10. 7917 cm^3 11. 55.6 cm^3

12. $11\,310 \text{ mm}^3$ 13. 101 cm^3 14. 2094 m^3

15. $58\,905 \text{ cm}^3$ 16. 268 cm^3

17. $63\,000 \text{ cm}^3$ (to two significant figures)

18. 1100 cm^3

19. $3.6 \times 60 = 216 \text{ cm}^3$

20. 553 cm^3

21. Volume of ice lolly (a) = 151 cm^3 ;
Volume of ice lolly (b) = 157 cm^3 ;
Ice lolly (b) is the better value.

22. Volume of tank (a) = 6.79 m^3 ;
Volume of tank (b) = 7.2 m^3 ;
Tank (b) would hold more oil.

23. Volume of cone = 566 cm^3 ;
Volume of tub = 551 cm^3 ;
The cone is better value for money.