Volume of Cuboids and Prisms *fluency*

Find the volume of the cuboid. The lengths are in centimetres.

1. 3 by 4 by 5
2. 2 by 6 by 10
3. 5 by 5 by 5
4. 7 by 3 by 2
5. 8 by 4 by 6
6. 10 by 10 by 3

Find the volume of the cuboid. The lengths are in centimetres.

7. 2.5 by 4 by 6
8. 1.5 by 2 by 8
9. 0.5 by 12 by 3
10. 3.2 by 5 by 2
11. 4.5 by 4.5 by 2
12. 1.2 by 1.5 by 10

Find the volume of the prism. A is the area of its cross section.

13. $A = 12$ cm^2, length 8 cm
14. $A = 20$ cm^2, length 5 cm
15. $A = 7.5$ cm^2, length 4 cm
16. $A = 15$ cm^2, length 12 cm
17. $A = 9$ cm^2, length 2.5 cm
18. $A = 36$ cm^2, length 10 cm

Find the volume of the triangular prism. The triangle has base b and perpendicular height h. Lengths are in cm.

19. $b = 6, h = 4$, length 10
20. $b = 5, h = 8$, length 7
21. $b = 3, h = 4$, length 12
22. $b = 9, h = 2$, length 15
23. $b = 7, h = 6$, length 5
24. $b = 4.5, h = 4$, length 9

Find the missing length of the cuboid. Lengths are in cm, volumes in cm^3.

25. $5 \times 4 \times ? = 120$
26. $3 \times 6 \times ? = 90$
27. $10 \times 4 \times ? = 200$
28. $7 \times 4 \times ? = 84$
29. $2.5 \times 6 \times ? = 150$
30. $4 \times 1.5 \times ? = 36$