

21. (1) 1440 sq. in., $p=40$ in.; (2) 264 sq. cm., $p=12$ cm.
 22. 37.5 sq. ft. 23. 120 sq. in. 24. 1080 sq. in. 25. 2088
 sq. ft. 26. 12.917 in. 27. 38.5 ft. 28. 408 mi. 29. 4.472 in.
 30. 140.296 sq. in. 31. 381.713 ft. 32. 60 rd. 33. \$451.
 34. 30 rd. by 25 rd. 35. \$5457.60. 36. 360 sq. m., $CM=21m$.

EXERCISES. Pages 107-110.

1. (1) $50\frac{1}{2}$ in. or 50.29 in., 22m., 88 yd., $56\frac{1}{2}$ dm. or 56.57 dm.; (2) 50.27 in., 21.99m., 87.96 yd., 56.55 dm. 2. (1) $3\frac{1}{4}$ m. or 3.5m., $1\frac{1}{10}$ yd. or 1.23 yd., $10\frac{1}{10}$ dm. or 10.23 dm., $11\frac{1}{10}$ in. or 11.95 in.; (2) 3.50m., 1.23 yd., 10.23 dm., 11.95 in.; (3) 3.50m., 1.23 yd., 10.23 dm., 11.95 in. 3. Twice as great; implied in formula $c=2\pi r$. 4. 1.5708m. 5. 420. 6. $318\frac{1}{2}$ ft. 7. 5 mi. 112 yd. 8. 27.925 in. 9. 18,041.8 mi. 10. 4.1888m. 11. 7 mi. 739.2 ft. 12. $9\frac{1}{2}$ in. 13. 1.16m. 14. (1) 154 sq. m., $38\frac{1}{2}$ sq. in. or 38.5 sq. in., $113\frac{1}{2}$ sq. yd. or 113.1 sq. yd.; (2) 153.94 sq. m., 38.48 sq. in., 113.20 sq. yd. 15. 161.14 sq. in. 16. 8.68m., 54.60m. 18. 96250 sq. yd. or 96288.5 sq. yd. as $\frac{22}{7}$ or 3.1416 is taken for π . 19. 542.08 sq. dm. 20. 43.07 sq. cm. 22. 7857.1 or 7862.8 as $\frac{22}{7}$ or 3.1416 is taken for π . 23. \$706.86. 24. 19.092 in. 25. 87.7 ft. 27. 0.36 sq. ft. 28. 143.36 sq. in. 29. $r^2(\pi-2)$. 30. 81.06. 31. 86.03. 32. $r^2(\pi-1.5\sqrt{3})$.

EXERCISES. Pages 114-116.

1. (1) 1001 c.ft.; (2) 5175 c.in.; (3) 79.971 c.m.; (4) 6727.995 c.cm.; (5) 3727.284 c.cm. 2. 63.25 sq. ft. 3. 13 ft., 494 sq. ft., 64 ft. 4. 7 ft. by 14 ft. by 21 ft. 5. 35.79 ft. 6. The diagonal of a cube whose side measures 1. 7. 6 cm. 8. 472.83 c. ft., 31.17 c. ft. 9. 506.88 c. ft. 10. 19.94%. 11. 231.22 ft. 12. 7794.2 c. in. 13. 7140 c. cm. 14. 31,176.9 c. in. 15. 7.69 in. 16. \$641.67. 17. 3418.06 sq. ft., 12,063.74 c. ft. 18. 879.648 sq. cm., 1806.42 c. cm. 19. 3.19 ft. 20. 339.29 sq. in. 21. 978.14 gal. 22. 6.476 in., 9.714 in. 23. $\frac{1}{4}$ in., taking $\frac{22}{7}$ for π . 24. 322.3 c. cm. 25. 350.5 c. ft. 26. 2.418 c. dm. 27. 3.992 in., say 4 in. 28. 1732. 29. 22020.7 g.