

Exercise 190. Page 210

2. 84 l.
3. 17.54 l.
4. 2c.
5. \$10.55 (\$10.546875).
6. 1000.
7. $4\frac{3}{8}$ gal., nearly. (4 l. = 7 pt.).
8. \$3.67 ... gain. (10 Hl. = 1000 l. = $\frac{1750}{64}$ bu.).
9. 28210 l.
10. 1136 Hl.

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1. 7018 g.
2. 2.77 g.
3. 12.021 g.
4. \$72. (30 $\times$ 400 Kg. = 12000 Kg. = 12 tons).
5. 31 grains.
6. 2.179 ... lb. Avoir. (28 grams = 1 oz. Avoir.).
7. 4459 $\frac{11}{31}$ grams; 5419 $\frac{11}{31}$ grams. (1 lb. Troy = 5760 grains; 1 gram = 15 $\frac{1}{2}$ grains; 1 lb. Avoir. = 7000 grains).
8. 320 $\frac{5}{18}$ grains, if 28 grams = 1 oz.; 321 $\frac{1}{4}$ grains, if 1 gram = 15 $\frac{1}{2}$ grains.
9. 1.039 ... Kg. per sq. cm. { 2 $\frac{1}{5}$ lb. = 1 Kg.; $\therefore$ 14 $\frac{3}{4}$ lb. = $\frac{295}{44}$ Kg. 1 m. = 39.37 in.; $\therefore$ 1 cm. = .3937 in.; $\therefore$ 1 sq. cm. = (.3937)² sq. in. = .155 sq. in., nearly. If pressure on 1 sq. in. = $\frac{295}{44}$ Kg., pressure on 1 sq. cm. = .155 $\times$ $\frac{295}{44}$ Kg. }. 10. 2500 men.

Exercise 192. Page 211

1. 900 sq. dm.
2. 3000 sq. cm.
3. 28.8 sq. dm.
4. 18 m. long; 12 m. broad; area is 216 sq. m.
5. 1.1382 ac. { Area = (72.5 $\times$ 62.8) sq. m. = 4553 sq. m. = .4553 Ha. = (2 $\frac{1}{2}$ $\times$.4553) acres }.
6. 47.61 Km.
7. 80 l. for each person.
8. 74 dm.
9. 11 $\frac{1}{4}$ dm. (1080 Hl. = 108000 l. Depth = $\frac{108000}{120 \times 80}$ dm.).
10. (a) 47.007008 cu. m.; (b) 57.019084 cu. m.; (c) 758.000078 cu. m.
11. 8000 cu. m. (Area of one face = 400 sq. m.; $\therefore$ edge of cube = 20 m.).
12. 1.085 Dl.