

Value of 12 things = $13s. + 6d. = 13s. 6d.$

Value of 144 things = $13s. \times 12 + 6s. = 156s. + 6s. = £8. 2s.$

154. The following general Rule may be given "for finding the value of any number of things, the value of one thing being given."

RULE. Reckon how many dozens are contained in the given number, and how many single things remain over. Then by Rule 150, find the value of one dozen, which value multiply by the number of dozens, and add to the result the price of the single things which remained over.

Ex. Find the value of 38 things at $4s. 7d.$ each.

$$38 = 3 \times 12 + 2,$$

$$\text{value of 12 things} = £2. 8s. + 7s. = £2. 15s.$$

$$\therefore \dots\dots 12 \times 3 \dots\dots = £2. 15s. \times 3 = £8. 5s.$$

$$\therefore \dots\dots 2 \dots\dots = 4s. 7d. \times 2 = 9s. 2d.$$

$$\therefore \dots\dots 38 \dots\dots = £8. 5s. + 9s. 2d. = £8. 14s. 2d.$$

Ex. LXXX.

1. Find the value of 12 articles at the following prices for a single article. (1) $\frac{1}{2}d.$ (2) $2d.$ (3) $5d.$ (4) $7d.$

(5) $11d.$ (6) $1\frac{1}{2}d.$ (7) $2\frac{1}{2}d.$ (8) $3\frac{1}{2}d.$ (9) $6\frac{1}{2}d.$ (10) $8\frac{1}{2}d.$

(11) $10\frac{1}{2}d.$ (12) $1s. 0\frac{1}{2}d.$ (13) $1s. 4d.$ (14) $1s. 6\frac{1}{2}d.$

(15) $1s. 9\frac{1}{2}d.$ (16) $1s. 8d.$ (17) $1s. 11\frac{1}{2}d.$ (18) $1s. 2\frac{1}{2}d.$

(19) $2s. 7d.$ (20) $3s. 0\frac{1}{2}d.$ (21) $4s. 4d.$ (22) $6s. 1\frac{1}{2}d.$

(23) $7s. 9d.$ (24) $8s. 5\frac{1}{2}d.$ (25) $11s. 7\frac{1}{2}d.$ (26) $13s. 2d.$

(27) $16s. 3\frac{1}{2}d.$ (28) $18s. 1\frac{1}{2}d.$ (29) $19s. 9d.$ (30) $19s. 6\frac{1}{2}d.$

2. At the prices named as the value of a single article in (1) to (12) inclusive in the last question find the value of 24 articles; at the prices named in (13) to (20) inclusive find the value of 48 articles; and at the prices named in (21) to (30) inclusive find the value of 144 articles.

3. At the prices named as the value of one article in questⁿ. 1. (6) to (20) inclusive, find the value of (1) 13; (2) 21; (3) 28; (4) 35; (5) 41; (6) 44; (7) 57; (8) 72; (9) 153; (10) 182 articles.

155. To find the value of 20 things, the value of one thing being given.

RULE. Reckon each shilling in the given value as £1, and if there be pence, reckon each penny as the twelfth of £1, thus $1d.$ as $1s. 8d.$, and if there be farthings, each farthing as one-fourth the value of each penny, or $1q.$ as $5d.$ &c.

Ex. Find the value of 20 things at $2s. 8\frac{1}{2}d.$ each.