

ARTICLE 74.

Promiscuous Examples.

1. Reduce 25 bu. 3 pks. to pints.
2. Reduce 94 gal. 2 qts. to gills.
3. Reduce 10 tons 10 lb. to ounces.
4. Reduce 999 yds. 2 ft. 11 in. to inches.
5. Reduce 9 sq. miles 490 acres to square rods.
6. Reduce 5 cords 3 cu. ft. 7 cu. in. to cubic inches.
7. Reduce 7 weeks 6 days 23 hrs. to seconds.
8. Reduce 33 lb. 4 oz. to grains.
9. Reduce 11 lb. 11 $\frac{3}{4}$ 1 $\frac{1}{2}$ 11 gr. to grains.
10. Reduce 21 reams 21 sheets to sheets.
11. Reduce 18625 pts. to bushels.
12. Reduce 3565 gills to gallons.
13. Reduce 150000 oz. to tons.
14. Reduce 63359 in. to yards.
15. Reduce 128304 sq. in. to square yards.
16. Reduce 483850 cu. in. to cubic yards.
17. Reduce 5529600 cu. in. to cords.
18. Reduce 694861 sec. to weeks.
19. Reduce 444444 gr. to pounds Troy.
20. Reduce 30941 gr. to pounds Apoth.
21. Reduce 60000 sheets of paper to reams.
22. Reduce 313600 oz. of flour to barrels.
23. Reduce 1000 bu. 1 pt. to pints.
24. Reduce 987 gal. 1 pt. to gills.
25. Reduce 20 tons 19 cwt. 99 lb. 15 oz. to ounces.
26. Reduce 100 miles 100 rods to rods.
27. Reduce 6 sq. miles 70 acres 25 sq. rods to square rods.
28. Reduce 4 cords 66 cu. ft. 1216 cu. in. to cubic inches.
29. Reduce 365 days 5 hrs. 48 min. 46 sec. to seconds.
30. Reduce 100 lb. 10 pwt. 1 gr. to grains.
31. Reduce 75 lb. 7 $\frac{3}{4}$ 5 gr. to grains.

32. Reduce 99 reams 19 quires 23 sheets to sheets.
33. Reduce 175 bls. 75 lb. of flour to ounces.
34. Reduce 1010001 pts. to bushels.
35. Reduce 987654 gills to hogsheads.
36. Reduce 5000000 oz. to tons.
37. Reduce 54030 in. to yards.
38. Reduce 10137600 sq. rods to square miles.
39. Reduce 2433023 cu. in. to cords.
40. Reduce 262974 min. to weeks.
41. Reduce 777777 gr. to pounds Troy.
42. Reduce 639360 gr. to pounds Apoth.
43. Reduce 440044 sheets to reams.
44. Reduce 1000000 oz. of flour to barrels.
45. Reduce 1616161 sq. rods to square miles.
46. Reduce 319 cords 73 cu. ft. to cubic yards.
47. Reduce 496 hhds. 2 gal. to gills.
48. Reduce 9 tons 9 cwt. 90 lb. 9 oz. to ounces.
49. Reduce 3240 score to gross.
50. Reduce 3168000 in. to miles.

Find the cost of

51. 10 bu. of plums, at 5 cts. a quart.
52. 10 gal. of wine, at 10 cts. a gill.
53. 3 tons of hay, at 5 mills a pound.
54. 25 yds. of lace, at 4 cts. an inch.
55. A lot 100 yds. square, at 1 ct. a square foot.
56. A cubic yard of granite, at 5 mills a cubic inch.
57. 30 days' house rent, at 2 mills a minute
58. 5 lb. of silver bullion, at 4 cts. a pwt.
59. 4 lb. of opium, at 3 cts. a scruple.
60. 50 bls. of flour, at 3 cts. a pound.
61. 100 reams of foolscap, at 5 mills a sheet.
62. 15 gross of lead pencils, at 25 cts. a dozen.
63. 75 bls. of beef, at \$8 per hundred pounds.
64. A quarter-section of land, at \$0.375 a square rod.
65. 10 lb. of refined gold, at 5 cts. a grain.

66. A wholesale jeweler made 2 lb. 8 oz. of gold into rings, weighing four pennyweights each, and sold them at \$4.50 apiece. What did he receive for them?

67. How many dozen pint bottles would be required to hold 10 hhd. of wine?

68. How many cards 2 in. wide and 4 in. long could be cut from five square yards of cardboard?

69. If a man's income were one mill per second, what would it be for the month of February, 1892?

70. How many two-inch cubes can be placed in a box 3 ft. long, 2 ft. wide, and 1 ft. deep, inside measurements?

71. 1000 pounds of iron was made into wire weighing 2 ounces to the yard. What was the total length?

72. A druggist made 1 lb. 8 $\frac{3}{4}$ 6 $\frac{3}{4}$ 2 $\frac{3}{4}$ of medicines into four-grain pills, which he sold at two cents each. What did he receive for them?

73. A grocer exchanged 3 bu. 4 qts. of strawberries, at \$0.075 a quart, for eggs at 15 cts. a dozen. How many dozen did he receive?

74. What will it cost to paper the walls of a room 21 ft. long, 15 ft. wide, and 10 ft. high, at 12 cts. 5 mills a square yard?

75. A barrel of flour was made into loaves, at the rate of seven ounces to the loaf. What was their value at five cents each?

76. How much silver would be required to make 25 dozen spoons, each weighing 12 pwts?

77. A cistern whose capacity is 1875 gal. is filled by a pipe discharging 3 gal. 1 pt. per minute. How long will it take to fill it?

78. How many tons of anthracite coal can be stored in a bin 16 ft. long, 8 ft. wide, and 5 ft. deep, allowing 32 cu. ft. to the ton?

79. A merchant bought 75 gal. of cider at 20 cts. a gallon, and sold it at \$0.035 a pint. What was his profit?

80. A section of land was divided into farms 40 rods square. How many farms were there?
81. Find the value of a fence surrounding a quarter-section of land at 75 cts. a rod.
82. 150 bu. of peaches were packed in baskets, each containing 2 pks. 4 qts., and sold at \$.875 per basket. How much was received for them?
83. A block of granite is 8 ft. long, 4 ft. wide, and 4 ft. thick. How many tons will it weigh, at the rate of 250 lb. to the cubic foot?
84. A railroad train runs two rods in a second. In what time will it run 50 miles?
85. A field 40 rods long and 32 rods wide produced 75 bu. of potatoes to the acre. What was the value of the crop, at 62 cts. 5 mills per bushel?
86. How many bricks, each 8 in. long, 4 in. wide, and 2 in. thick, can be piled in a box car 32 ft. long, 7 ft. wide, and 2 ft. deep, inside measurement?
87. A log 24 ft. long, and 2 ft. square at the ends, was sawn into posts 4 in. square and 8 ft. long. What was their value, at 22 cts. 5 mills apiece?
88. If the velocity of sound be 1100 ft. per second, what time would elapse between seeing the flash and hearing the report of a cannon five miles distant?
89. 12 bu. of cherries cost \$19.20. How much was that per pint?
90. If a man's income is two cents a minute, what will it be in the year 1896?
91. A block of marble 6 ft. long, 4 ft. wide, and 3 ft. thick, was sawn into tiles one foot square and one inch thick. How many square yards would they cover?
92. A rick of hay was sold at eight mills a pound, and \$80 was received for it. How many tons did it weigh?
93. \$24 was paid for five-grain pills at two cents each. What was the total weight?

94. If steel rails weigh 55 lb. per yard, how many tons would be required to lay a railroad track 60 miles in length?

95. If the driving-wheels of a locomotive are 16 ft. in circumference, how many revolutions would each make in a trip over the above road?

96. 390 sheets of cardboard, each two feet wide and three feet long, were cut into packs of 52 cards, each three inches wide and four inches long. How many dozen packs were made?

97. A vintner put 999 gallons of wine into bottles containing 1 pt. 2 gills each, which he packed into baskets, each holding two dozen bottles. What was the total value, at \$12 per basket?

98. A woodcutter earned \$90 in six weeks, at the rate of \$1.25 for each cord. How much wood did he chop per day?

99. 50 bu. of peanuts cost \$1.10 a bushel, and were retailed at five cents a quart. How much was gained?

100. If a cubic inch of gold weighs 10 oz., what will be the value of an ingot 5 in. long, 3 in. wide, and 2 in. thick, at four cents a grain?

101. One pound of gold was manufactured into watch-seals weighing five pennyweights apiece, which were sold for \$264. What was the value of each?

102. What quantity of medicine will be required for the number of five-grain pills that will realize \$12.36, when sold at \$0.015 each?

103. One day's rations of bread for a regiment cost \$112, at 10 cts. a loaf. If each loaf weighed 14 oz., how many barrels were required?

104. A carpenter agreed to work 10 hrs. a day, at the rate of four mills per minute. If his wages amounted to \$72, how many days did he work?

105. A reservoir was filled in 12 hrs. by a pipe which discharged 1 pt. 1. gill per second. How many gallons did it hold?

106. A fruiterer bought cranberries at 56 cts. a peck, and sold them at five cents a pint, thereby gaining \$14.40. How many bushels did he have?

107. A crop of pears was packed in baskets, each holding 1 pk. 4 qts., and sold at \$.625 per basket. The total value was \$75. What was the number of baskets?

108. An express train ran a certain distance in 2 hrs. 56 min., at the rate of three rods per second. What was the distance?

109. A crop of corn from a field 64 rods long and 45 rods wide was sold for \$360, at the rate of 50 cts. per bushel. How many bushels did each acre yield?

110. A carload of Florida oranges was sold for \$1250, at the rate of 25 cts. a dozen. If there were 10 doz. in a box, how many boxes were there?

111. How much iron would be required to shoe 1000 cavalry horses, allowing eight ounces to each shoe?

112. A hound running 64 rods per minute is chasing a fox whose speed is 56 rods per minute. If the fox has one mile the start, in what time will the hound catch him?

113. A poulterer has 600 turkeys. If he feed each a pint of corn daily for 40 days, what would be the cost of the corn at 40 cts. a bushel?

114. A pound avoirdupois contains 7000 grs. How many pounds of iron will be equal in weight to 175 lb. of silver?

115. If the distance from Boston to San Francisco is 3000 miles, in what time could a carrier-pigeon make the flight at the rate of five rods per second?

116. Fifty planks, each 15 ft. long and 16 in. wide, were cut into palings 3 ft. long by 2 in. wide, and sold for \$2.50 per hundred. What was their value?

117. The fore wheel of a carriage is 12 ft. in circumference, and the hind wheel 15 ft. How many more revolutions will the former make than the latter in going a distance of 10 miles?

118. A farmer exchanged 35 bu. of wheat at \$0.015 per pint for five tons of anthracite coal at \$0.003 per pound, and the balance in money. How much money did he receive?

119. A box 1 ft. 4 in. wide, 2 ft. 6 in. long, and 1 ft. deep was packed with law-books, 10 in. long, 8 in. wide, and 2 in. thick. What was their value, at \$2.75 each?

120. 150 gross of colored crayons, at three cents a score, were exchanged for 3900 steel pens, at eight cents a dozen, and 160 pencils. What was one pencil worth?

121. How many sheets of cardboard, each 2 ft. wide and 3 ft. long, would be required to make 1800 photograph cards, each 4 by 6 in.?

122. A cask of wine was bought for \$1.60 per gallon, and sold at \$0.275 a pint, thereby yielding a profit of \$36. How many gallons were in the cask?

123. A quantity of gold was made into sleeve-buttons, weighing 2 pwt. 12 gr. each, and the entire lot was sold for \$300, at \$7.50 a pair. How much gold was in them?

124. A box of glass contains 100 sq. ft. How many boxes would be required to glaze a factory containing 40 windows, with two sash to the frame, and nine panes of glass, each 12 in. long and 10 in. wide, to the sash?

125. A company of 80 men consumed 14 oz. of flour apiece daily during the first six months of the year 1892. How many barrels were required?

ANSWERS.

ARTICLE 74.

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| 1. | 1468 pts. | 31. | 432425 gr. |
| 2. | 3024 gills. | 32. | 47976 sheets. |
| 3. | 320160 oz. | 33. | 550000 oz. |
| 4. | 35999 in. | 34. | 15781 bu. 1 pk. 1 pt. |
| 5. | 1000000 sq. rds. | 35. | 489 hhds. 57 gal. 1 pt. 2 gills. |
| 6. | 1111111 cu. in. | 36. | 156 tons 5 cwt. |
| 7. | 4834800 sec. | 37. | 1500 yds. 2 ft. 6 in. |
| 8. | 192000 gr. | 38. | 99 sq. miles. |
| 9. | 68671 gr. | 39. | 10 cords 127 cu.ft. 1727 cu. in. |
| 10. | 10101 sheets. | 40. | 26 wks. 14 hrs. 54 min. |
| 11. | 291 bu. 1 pt. | 41. | 135 lb. 7 pwt. 9 gr. |
| 12. | 111 gal. 1 qt. 1 pt. 1 gi. | 42. | 111 lb. |
| 13. | 4 tons 13 cwt. 75 lb. | 43. | 500 reams 1 quire 20 sheets |
| 14. | 1759 yds. 2 ft. 11 in. | 44. | 318 bls. 172 lb. |
| 15. | 99 sq. yds. | 45. | 15 sq. miles 501 acres 1 sq. rod. |
| 16. | 10 cu. yds. 10 cu. ft. 10 cu. in. | 46. | 1515 cu. yds. |
| 17. | 25 cords. | 47. | 1000000 gills. |
| 18. | 1 wk. 1 day 1 hr. 1 min. 1 sec. | 48. | 303849 oz. |
| 19. | 77 lb. 1 oz. 18 pwt. 12 gr. | 49. | 450 gross. |
| 20. | 5 lb. 4 $\frac{3}{4}$ 3 $\frac{3}{4}$ 2 $\frac{3}{4}$ 1 gr. | 50. | 50 miles. |
| 21. | 125 reams. | 51. | \$16. |
| 22. | 100 bls. | 52. | \$32. |
| 23. | 64001 pts. | 53. | \$30. |
| 24. | 31588 gills. | 54. | \$36. |
| 25. | 671984 oz. | 55. | \$900. |
| 26. | 32100 rods. | 56. | \$233.28. |
| 27. | 625625 sq. rods. | 57. | \$86.40. |
| 28. | 1000000 cu. in. | 58. | \$48. |
| 29. | 31556926 sec. | 59. | \$34.56. |
| 30. | 576241 gr. | 60. | \$294. |

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|-----|---------------------------|------|-------------------------------------|
| 61. | \$240. | 95. | 19800 rev. |
| 62. | \$45. | 96. | 45 doz. |
| 63. | \$1200. | 97. | \$2664. |
| 64. | \$9600. | 98. | 2 cords. |
| 65. | \$2880. | 99. | \$25. |
| 66. | \$720. | 100. | \$5760. |
| 67. | 420 doz. | 101. | \$5.50. |
| 68. | 810 cards. | 102. | 8 $\frac{3}{4}$ 4 3 2 $\frac{1}{2}$ |
| 69. | \$2505.60. | 103. | 5 bls. |
| 70. | 1296 cubes. | 104. | 30 days. |
| 71. | 8000 yds. | 105. | 6750 gal. |
| 72. | \$50. | 106. | 15 bu. |
| 73. | 50 doz. | 107. | 120 baskets. |
| 74. | \$10. | 108. | 99 miles. |
| 75. | \$22.40. | 109. | 40 bu. |
| 76. | 15 lb. | 110. | 500 boxes. |
| 77. | 10 hrs. | 111. | 1 ton. |
| 78. | 20 T. | 112. | 40 min. |
| 79. | \$6. | 113. | \$150. |
| 80. | 64 farms. | 114. | 144 lb. |
| 81. | \$480. | 115. | 2 days 5 hrs. 20 min. |
| 82. | \$210. | 116. | \$50. |
| 83. | 16 tons. | 117. | 880 rev. |
| 84. | 2 hrs. 13 min. 20 sec. | 118. | \$3.60. |
| 85. | \$375. | 119. | \$99. |
| 86. | 12096 bricks. | 120. | 4 cts. |
| 87. | \$24.30. | 121. | 50 sheets. |
| 88. | 24 sec. | 122. | 60 gal. |
| 89. | \$0.025. | 123. | 10 oz. |
| 90. | \$10540.80. | 124. | 6 boxes. |
| 91. | 96 sq. yds. | 125. | 65 bls. |
| 92. | 5 tons. | | |
| 93. | 1 lb. 4 3. | | |
| 94. | 5808 tons. | | |