

ARTICLE 49.

Promiscuous Examples.

1. How much more will 143 horses cost, at \$77 each, than 367 cows, at \$30 each?
2. If 3750 bu. of wheat cost 480000 cts., how many cents will 987 bu. cost?
3. The sum of two numbers is 378, and the greater is 253. What is the product of the two numbers?
4. A has 216 acres, and B 162 acres. If A sells one eighth of his to B, how many will each then have?
5. If a certain number be divided by 592 the quotient will be 468, and the remainder 345. What is the number?
6. Sold 276 cords of wood for 122820 cts., thereby losing 8280 cts. For how much per cord should I have sold it to gain 6900 cts.?
7. A has 168 sheep; B has 3 times as many, less 247; C has 149 more than A and B together. How many have all?
8. A cistern will hold 9900 gal. If it receives 945 gal. per hour by one pipe, and discharges 670 gal. per hour by another, in what time will it be filled?
9. If a certain number be multiplied by 56, and 632 subtracted from the product, the remainder divided by 562 will give 48 for the quotient. What is the number?
10. 296 men have provisions for 152 days. How many men could consume them in 145 days?
11. Two vessels are on opposite sides of the Pacific Ocean, 9936 miles apart. They sail towards each other, one at the rate of 264 miles per day, and the other 288 miles per day. In how many days will they meet?
12. A drover bought an equal number of horses and mules for \$14504. He paid \$85 for a horse and \$63 for a mule. How many of each did he buy?

13. The product of three numbers is 24993360. Two of them are 203 and 304. What is the third?
14. A speculator sold a quantity of pork for \$16416, thereby gaining \$2592. If he received \$19 a barrel for it, what was the cost per barrel?
15. A contractor agreed to construct a building which would employ 104 men 147 days; 13 of the men failed to come. How long were the others employed?
16. How many sacks of coffee, each weighing 250 lb., at 17 cts. a pound, are equal in value to 68 chests of tea, of 35 lb. each, at 75 cts. a pound?
17. A vessel sailed 12288 miles in 64 days. At that rate, how far could it sail in 75 days?
18. 956 bls. of flour, each containing 196 lb., were emptied into 28-pound sacks, and sold at \$1 per sack. How much was received?
19. A drover paid \$11232 for Texas cattle at \$13 per head; 35 strayed away, and 46 were drowned in crossing a stream. At what price per head must he sell the remainder to clear \$2862 on the cost of all?
20. What was the cost of 256 acres of land, if \$3336 was gained by selling 139 acres for \$13761?
21. Divide the product of 2304 and 1296 by the difference between 10000 and 98272.
22. A planter sold 468 hhds. of tobacco at \$127 each. He then borrowed enough money to enable him to buy 796 bales of cotton at \$82 a bale. How much did he borrow?
23. If 287 bls. of wine cost \$13776, how many could be bought for \$12912?
24. Paid \$15232 for horses at \$64 each; 14 were stolen, and the others were sold at \$68 apiece. What was my gain or loss?
25. Two men engaged in business, each with \$10750.

One gained \$2250 a year for three years; the other lost \$250 a year for the same time. How much more was one then worth than the other?

26. If 109 be added to a certain number, the sum multiplied by 513, 3591 subtracted from the product, and the remainder divided by 912, the result will be 432. What is the number?

27. A market gardener planted 539 rows of cabbages with 396 to each row. Had he planted 462 in a row, how many rows would there have been?

28. A street whose area is 31680 sq. yds. was paved with granite blocks costing 12 cts. apiece. If the entire cost was 17107200 cts., how many blocks were there in each square yard?

29. If 63 men can husk 114219 bu. of corn in 49 days, how many bushels can 56 men husk in 48 days?

30. 200000 lemons were packed in boxes, and sold for 550000 cts., at the rate of 440 cts. per box. How many lemons were in each box?

31. Five brothers inherited a fortune. A's share was \$22750; B's, \$3125 less than A's; C's, \$1250 more than B's; D's, \$3125 less than C's; E's, \$1250 more than D's. What was the entire fortune?

32. John graduated from college at the age of 22. His mother was born in 1842, and his father is four years older than his mother. If the father was 27 years old when John was born, in what year did he graduate?

33. A speculator exchanged 245 acres of farm land, worth \$75 an acre, for 356 acres of woodland and \$1287 in money. What was the value of the woodland per acre?

34. A race-track 5280 ft. in circumference is surrounded by a fence containing 42240 sq. ft. of boards. The boards were sawn from a certain number of logs, each measuring 768 sq. ft. How many logs were used?

35. A company of 64 men mined 1125000 oz. of silver during a certain year. It was taken to the mint and made into dollars, each weighing one ounce. If one ninth the entire amount was charged for coining, what did each man realize?

36. Sold 2048 bu. of wheat for 249856 cts., thereby losing 3 cts. per bushel. If I had sold it at a gain of 20480 cts., how much per bushel would I have received?

37. A trader paid \$32760 for horses at \$78 apiece. He sold a part of them for \$23205 at \$85 each, and the remainder at \$65 each. What did he gain or lose by the transaction?

38. What was the cost of 296 acres of land, if \$1435 was gained by selling 247 acres for \$19219?

39. A dealer bought 26 carloads of coal, of 285 bu. each, at 9 cts. a bushel. The expense for freight was 550 cts. per car, and one cent per bushel for hauling. If he sold it all at 15 cts. per bushel, what was his profit?

40. How many boxes of eggs, each containing 13 doz., worth 18 cts. a dozen, should be exchanged for 27 bls. of coal oil, each holding 39 gals., at 14 cts. a gallon?

41. Thirty-six acres of land yielded 125 bu. of potatoes per acre. The crop was sold at 48 cts. a bushel, and the money invested in land at 27 cts. a square rod. Allowing 160 sq. rods to the acre, how many acres were bought?

42. Four men formed a partnership with a capital of \$25000. A's share was \$5625; B's was \$1625 more than A's, and C's \$375 less than B's. What was D's share?

43. Bought 64 bls. of wine, and sold it at a profit of 25 cts. a gallon, thereby gaining 72000 cts. How many gallons were in each barrel?

44. A speculator sold 34 village lots at \$570 each,

and invested the money in an equal number of horses at \$69, and mules at \$45 apiece. How many of each did he buy?

45. A gambler lost \$2750. He then won \$3470, spent \$4895, borrowed \$2550, and found that he had \$10000. What had he at first?

46. If 27 men can dig a mill-race in '49 days, by working 10 hours a day, how many more men could do the same work in 35 days, by working 9 hours a day?

47. Three brothers, A, B, and C, inherited respectively \$12500, \$15375, and \$11500. B gave \$4750 to C, who gave \$3125 to A, who gave \$2500 to B. How much had each then?

48. There are 2000 lb. in a ton. Allowing 56 horseshoe nails to a pound, how many companies of cavalry would require five tons of nails for shoeing their horses, allowing 100 men to each company, and 32 nails to each horse?

49. If 13988 be added to a certain number, 429 will be contained in the sum 375 times, with a remainder; and if this remainder be multiplied by 456, the product will be 142272. What is the original number?

50. Twenty-five men built a factory in 52 days, each laying 1800 bricks per day. If the bricks were hauled by 16 teams, and there were 975 bricks in each load, how many loads did each team haul?

ANSWERS.

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| 1. \$1. | 18. \$6692. | 35. \$15625. |
| 2. 126336 cts. | 19. \$18. | 36. 135 cts. |
| 3. 31625. | 20. \$19200. | 37. Nothing. |
| 4. 189 acres. | 21. 1728. | 38. \$21312. |
| 5. 267401. | 22. \$5836. | 39. 22750 cts. |
| 6. 500 cts. | 23. 269 bls. | 40. 63 boxes. |
| 7. 999 sheep. | 24. Nothing. | 41. 50 acres. |
| 8. 36 hrs. | 25. \$7500 | 42. \$5250. |
| 9. 493. | 26. 666. | 43. 45 gal. |
| 10. 232 men. | 27. 462 rows. | 44. 170. |
| 11. 18 days. | 28. 45 blocks. | 45. \$11625. |
| 12. 98. | 29. 99456 bu. | 46. 15 men. |
| 13. 405. | 30. 160 lemons. | 47. \$13125. |
| 14. \$16. | 31. \$100000 | 48. 175 compan's. |
| 15. 168 days. | 32. 1887. | 49. 147199. |
| 16. 42 sacks. | 33. \$48. | 50. 150 loads. |
| 17. 14400 miles. | 34. 55 logs. | |