Article 89.

Greatest Common Divisor.

Find the Greatest Common Divisor

1. Of 76 and 133.
2. Of 120 and 216.
3. Of 248 and 465.
4. Of 351 and 567.
5. Of 551 and 1073.
6. Of 612 and 900.
7. Of 702 and 1209.
8. Of 1075 and 1591.
9. Of 1431 and 2809.
10. Of 1472 and 1792.
11. Of 1848 and 2926.
12. Of 1892 and 3096.
13. Of 2405 and 3330.
14. Of 2211 and 3417.
15. Of 5994 and 9657.
16. Of 6783 and 11172.
17. Of 6409 and 14121.
18. Of 7344 and 11664.
19. Of 11583 and 17017.
20. Of 6660 and 10545.
21. Of 57, 95, and 133.
22. Of 96, 144, and 216.
23. Of 111, 296, and 407.
24. Of 224, 392, and 504.
25. Of 459, 765, and 1173.
26. Of 924, 1210, and 1683.
27. Of 1365, 2340, and 3549.
28. Of 1287, 2079, 4488, and 6384.
29. Of 2898, 3588, 3795, and 3910.
30. Of 7020, 8316, 9126, and 10773.

31. What is the capacity of the largest vessel that will exactly measure 2232, 2604, or 2945 gal. of petroleum?

32. A railroad company built three side tracks, 6699, 8671, and 9367 ft. in length. What is the greatest length of rail that could be used in their construction?

33. A grain-dealer wishes to construct a number of bins of equal capacity, which will exactly contain 2079 bu. of wheat, 2673 bu. of oats, and 3465 bu. of barley. How many bins must he have, and how many bushels will each hold?

34. A has 648 eggs, B 864, C 1008. If the largest boxes possible are made in which each can exactly pack his eggs, how many dozen will each box contain?

35. A company of speculators bought three tracts of land containing respectively 1029, 1176, and 1372 acres; which they divided into farms of the largest possible size to contain an equal number of acres. If the farms were sold at $1000 each, how much was realized?

ANSWERS.

ARTICLE 89.

1.	19.	**13.**	185.	**25.**	51.
2.	24.	**14.**	201.	**26.**	11.
3.	31.	**15.**	333.	**27.**	39.
4.	27.	**16.**	399.	**28.**	11.
5.	29.	**17.**	1.	**29.**	23.
6.	36.	**18.**	432.	**30.**	27.
7.	39.	**19.**	143.	**31.**	31 gal.
8.	43.	**20.**	555.	**32.**	29 ft.
9.	53.	**21.**	19.	**33.**	83 bins, 99 bu.
10.	64.	**22.**	24.	**34.**	6 doz.
11.	154.	**23.**	37.	**35.**	$73000.
12.	172.	**24.**	56.		