1. $\frac{75}{100} = \frac{n}{560}$; 420
2. $\frac{85}{100} = \frac{n}{20}$; 17
3. $\frac{80}{100} = \frac{n}{20}$; 16
4. $\frac{40}{100} = \frac{n}{60}$; 24
5. $\frac{53}{100} = \frac{n}{70}$; 37.1
6. $\frac{18}{100} = \frac{n}{150}$; 27
7. $\frac{16}{100} = \frac{n}{75}$; 12
8. $\frac{92}{100} = \frac{n}{625}$; 575
9. $\frac{n}{100} = \frac{16}{20}$; 80%
10. $\frac{n}{100} = \frac{18}{75}$; 24%
11. $\frac{n}{100} = \frac{30}{40}$; 75
12. $\frac{n}{100} = \frac{4}{20}$; 20
13. $\frac{n}{100} = \frac{13}{25}$; 52
14. $\frac{n}{100} = \frac{75}{250}$; 30
15. $\frac{n}{100} = \frac{17}{92}$; 18.5
16. $\frac{n}{100} = \frac{14}{80}$; 17.5
17. $\frac{25}{100} = \frac{8}{n}$; 32
18. $\frac{35}{100} = \frac{14}{n}$; 40
19. $\frac{49}{100} = \frac{31}{n}$; 63.3
20. $\frac{93}{100} = \frac{45}{n}$; 48.4
21. $\frac{2}{100} = \frac{1}{n}$; 50
22. $\frac{98}{100} = \frac{6}{n}$; 6.1
23. 627,000 people
24. $3,200
25. $\frac{300}{100} = \frac{n}{50}$; 150
26. $\frac{250}{100} = \frac{50}{n}$; 20
27. $\frac{60}{100} = \frac{n}{15}$; 9
28. $\frac{n}{100} = \frac{40{,}571}{76{,}550}$; 53
29. $\frac{35}{100} = \frac{52.5}{n}$; 150
30. $\frac{n}{100} = \frac{121.8}{105}$; 116
31. 80%
32. a. Georgia: $600; Kansas: $795; Pennsylvania: $900; South Carolina: $750; Texas: $937.50

    b. Georgia: $15,600; Kansas: $15,795; Pennsylvania: $15,900; South Carolina: $15,750; Texas: $15,937.50
33. $500
34. 50 members
35. Your friend should have used the ratio $\frac{26}{n}$, comparing class enrollment, 26 (or 5%), to school enrollment, *n* (or 100%).
36. $\frac{33\frac{1}{3}}{100} = \frac{n}{54}$; 18
37. $\frac{12\frac{1}{2}}{100} = \frac{6}{n}$; 48
38. $\frac{n}{100} = \frac{912.5}{36{,}500}$; 2.5
39. $\frac{\frac{5}{4}}{100} = \frac{n}{145}$; 1.8
40. Answers may vary. Sample: Suppose 12% of the species at a zoo can fly. If there are 350 species at the zoo, how many species can fly? 42 species

41. Pacs; $\frac{1}{3} \approx 33.3\%$. Since $33.3 > 30$, $\frac{1}{3}$ is the greater discount rate.

42. Explanations may vary. Sample: Yes; for $a\%$ of b, solve $\frac{a}{100} = \frac{n}{b}$ to get $n = \frac{ab}{100}$. For $b\%$ of a, solve $\frac{b}{100} = \frac{n}{a}$ to get $n = \frac{ab}{100}$.