

Answers for Lesson 4-1, pp. 162–163 Exercises

1. A rate is a ratio that compares quantities measured in different units. The quantities 6 and 23 have the same unit of students.
2. 4 : 7
3. 3 : 4
4. 3 : 7
5. $\frac{2}{1}$
6. $\frac{1}{12}$
7. $\frac{2}{3}$
8. $\frac{5}{3}$
9. $\frac{7}{30}$
10. $\frac{2}{1}$
11. $\frac{11}{18}$
12. $\frac{1}{3}$
13. $\frac{3}{11}$
14. 3 gal/min
15. \$14/book
16. 6.25 ft/s
17. \$1.80/rose
18. 12.5 m/s
19. 52 mi/h
20. 15 gal/min
21. \$.08/oz; \$.09/oz; the 32-oz container
22. 374 mi/h
23. -0.007°C/m
24. $\frac{17}{76}$
25. $\frac{21}{83}$
26. $\frac{114}{121}$
27. 56 mi/h
28. a. 35 : 1
b. about 342 gal/grower
c. \$72
29. The ratio will change from $\frac{16}{12}$ to $\frac{19}{15}$, which is not the same.
30. 25 black and 35 red
31. A
32. G
33. B
34. 15
35. $\frac{1}{25}$
36. $\frac{1}{4}$
37. $\frac{11}{14}$