

Answers for Lesson 4-4, pp. 198-199

1. $\frac{1}{4}, \frac{4}{16}$

2. $\frac{4}{5}, \frac{16}{20}$

3. $\frac{1}{3}, \frac{2}{6}$

4. $\frac{2}{9}, \frac{16}{72}$

5. $\frac{1}{3}, \frac{12}{36}$

6. $\frac{10}{11}, \frac{40}{44}$

7. $\frac{1}{3}$

8. $\frac{2}{5}$

9. $\frac{1}{4}$

10. $\frac{1}{5}$

11. $\frac{1}{3}$

12. $\frac{2}{5}$

13. $\frac{1}{3}$

14. $\frac{2}{3}$

15. $\frac{m^2}{3}$

16. $\frac{1}{c}$

17. $\frac{3x}{2}$

18. $\frac{2r}{3}$

19. $\frac{7a}{12}$

20. $\frac{c}{4}$

21. $8b$

22-26. Answers may vary. Samples are given.

22. $\frac{1}{2}, \frac{2}{4}$

23. $\frac{2}{5}, \frac{8}{20}$

24. $\frac{1}{4}, \frac{2}{8}$

25. $\frac{5}{8}, \frac{20}{32}$

26. $\frac{1}{4}, \frac{2}{8}$

27. No; the GCF of 65 and 91 is 13. The fraction can be simplified to $\frac{5}{7}$.

28. $\frac{4}{7}$

29. $\frac{9}{16}$

30. $\frac{2}{3}$

31. $\frac{3}{4}$

32. 15

33. 8

34. $\frac{cd}{3}$

35. $\frac{r^3}{9t}$

36. $\frac{1}{2t}$

37. $\frac{x^2}{3z}$

38. $\frac{3}{2gh}$

39. $\frac{2m}{3}$

40. a. $\frac{3}{5}$

b. In order to show the total number surveyed, using the fraction $\frac{27}{45}$ is better.

41. Answers may vary. Sample: $\frac{6x}{10}, \frac{3xy}{5y}$

42. Answers may vary. Sample: Yes, as long as the pizzas are the same size and weight.

43. $\frac{18}{35}$

44. $\frac{22}{27}$

45. a. $\frac{11}{12}$

b. 2001; $\frac{11}{12}$ is about 1, while $\frac{22}{27}$ is about $\frac{3}{4}$.

46. $\frac{2 \cdot 2 \cdot 2 \cdot 3}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2} = \frac{3}{2 \cdot 2} = \frac{3}{4}$