

Answers for Lesson 4-3, pp. 176–178 Exercises

1. cross products
2. yes; $\frac{5}{6} = \frac{15}{18}$
3. yes; $\frac{6}{27} = \frac{2}{9}$
4. no; $\frac{3}{13} \neq \frac{4}{14}$
5. no; $\frac{1}{4} \neq \frac{2}{10}$
6. yes; $\frac{30}{4} = \frac{15}{2}$
7. yes; $\frac{7}{6} = \frac{28}{24}$
8. no; $\frac{3}{8} \neq \frac{4}{10}$
9. no; $\frac{11}{18} \neq \frac{22}{32}$
10. yes; $\frac{25}{40} = \frac{5}{8}$
11. yes; $\frac{15}{27} = \frac{5}{9}$
12. yes; $\frac{2}{5} = \frac{40}{100}$
13. 45
14. 7
15. 3
16. 9
17. 12
18. 16
19. 40.5
20. 5.4
21. 6,340 kroons
22. $\frac{3}{4}$ crate
23. 48,387 yen
24. 4,301 yen
25. 22,581 yen
26. 18,817 yen
27. $\frac{x+3}{2} = \frac{5}{4}$
 $(x+3)4 = 5 \cdot 2$ Write the cross products.
 $4x + 12 = 10$ Multiply.
 $4x = -2$ Subtract 12 from each side.
 $\frac{4x}{4} = \frac{-2}{4}$ Divide each side by 4.
 $x = -\frac{1}{2}$ Simplify.
28. $\frac{6}{9} = \frac{x+4}{12}$
 $6 \cdot 12 = 9(x+4)$ Write the cross products.
 $72 = 9x + 36$ Multiply.
 $36 = 9x$ Subtract 36 from each side.
 $\frac{36}{9} = \frac{9x}{9}$ Divide each side by 9.
 $x = 4$ Simplify.
29. h and 25 are reversed.
30. yes
31. About 3 grams; methods may vary.

Answers for Lesson 4-3, pp. 176–178 Exercises (cont.)

32–34. Answers may vary. Samples are given.

32. 5

33. 2

34. 2.5

35. about \$85

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

37. 15

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

39. Answers may vary. Sample: x will only equal $x + z$ when z is 0.

40. 48.3 in.

41. C

42. J

43. A

44. -16

45. -19

46. -27