

1. $\frac{5}{48}$ 2. $\frac{2}{15}$ 3. $\frac{5}{12}$
4. $\frac{3}{56}$ 5. $\frac{1}{6}$ 6. $\frac{4}{21}$
7. $\frac{3}{28}$ 8. $\frac{5}{63}$ 9. $\frac{15}{16}$
10. 1 11. $4\frac{4}{9}$ 12. 4
13. $\frac{1}{2}$ 14. $\frac{2}{3}$ 15. $2\frac{3}{16}$
16. $7\frac{1}{2}$ 17. 3 18. $-\frac{1}{7}$
19. $-\frac{4}{27}$ 20. -12
21. $\frac{3}{4}s = 9$; 12 sheets
22. 2 23. $\frac{4}{25}$ 24. $\frac{1}{4}$
25. $\frac{7}{15}$ 26. $-\frac{2}{33}$ 27. $3\frac{5}{17}$
28. $2\frac{8}{27}$ 29. $7\frac{7}{15}$
30. Negative; a negative product means the two factors have opposite signs.
31. Positive; a positive product means the two factors have the same sign.
32. Zero; a zero product means one of the two factors must be zero.
33. Zero; a zero product means one of the two factors must be zero.
34. 10 weeks 35. 20 weeks
36. $-1\frac{13}{50}$ 37. $-1\frac{7}{26}$ 38. $-\frac{2}{9}$
39. $3\frac{9}{13}$ 40. $\frac{27}{196}$ 41. $-\frac{5}{12}$

42. $1\frac{1}{6}$

43. $-1\frac{19}{81}$

44. 2

45. 6

46. $2\frac{1}{3}$

47. 4

48. 261,000 mi

49. The student multiplied each side by $\frac{10}{7}$ and lost track of the negative sign.

50. Answers may vary. Sample: Multiply each side by $\frac{3}{2}$. This gives $x = \frac{9}{2}$, or $4\frac{1}{2}$. To check, substitute $\frac{9}{2}$ for x : $\frac{2}{3}\left(\frac{9}{2}\right) \stackrel{?}{=} 3$. $3 = 3$ ✓

51. 10 min

52. 12

53. $-\frac{6}{23}$

54. $-1\frac{1}{6}$

55. $\frac{1}{a}$; a

56. $1\frac{2}{15}$ mi; 100 ft