Multiplying Mixed Numbers

Estimate the product. Then complete the multiplication.

1. \(5\frac{4}{5} \times 7 = \underline{5} \times \frac{7}{1} = \underline{5}\)

2. \(3\frac{2}{3} \times 5\frac{1}{7} = \underline{3} \times \underline{7} = \underline{5}\)

Estimate. Then find each product. Simplify.

3. \(4\frac{3}{5} \times \frac{2}{3} = \underline{4} \times \underline{3} = \underline{5}\)

4. \(6 \times 2\frac{2}{7} = \underline{6} \times \underline{7} = \underline{5}\)

5. \(7\frac{4}{5} \times 2\frac{1}{3} = \underline{7} \times \underline{3} = \underline{5}\)

6. \(3\frac{3}{4} \times 2\frac{4}{5} = \underline{3} \times \underline{7} = \underline{5}\)

7. \(2\frac{1}{5} \times \frac{7}{8} = \underline{2} \times \underline{8} = \underline{5}\)

8. \(6\frac{1}{3} \times 1\frac{5}{6} = \underline{6} \times \underline{6} = \underline{5}\)

9. \(1\frac{4}{5} \times 1\frac{1}{3} \times 1\frac{3}{4} = \underline{1} \times \underline{3} = \underline{5}\)

10. \(3\frac{1}{4} \times 2\frac{2}{3} \times 5\frac{1}{5} = \underline{3} \times \underline{5} = \underline{5}\)

11. Write a mixed number for \(p\) so that \(3\frac{1}{4} \times p\) is more than \(3\frac{1}{4}\).

12. A model house is built on a base that measures \(9\frac{1}{4}\) in. wide and \(8\frac{4}{5}\) in. long. What is the total area of the model house’s base?

13. Which is \(1\frac{3}{4}\) of \(150\frac{1}{2}\)?
   A 263 B 263\(\frac{1}{8}\) C 263\(\frac{3}{8}\) D 264\(\frac{3}{8}\)

14. Megan’s dog Sparky eats \(4\frac{1}{4}\) cups of food each day. Explain how Megan can determine how much food to give Sparky if she needs to feed him only \(\frac{2}{3}\) as much. Solve the problem.