Estimating Products

Estimate each product.

1. \(2\frac{3}{8} \times \frac{1}{3}\)   
2. \(6 \times 2\frac{1}{5}\)   
3. \(\frac{6}{10} \times 5\frac{3}{4}\)   
4. \(3\frac{7}{9} \times 6\frac{2}{5}\)   
5. \(2\frac{1}{2} \times 2\frac{1}{3}\)   
6. \(\frac{7}{8} \times 4\frac{3}{8}\)   
7. \(27 \times \frac{3}{8}\)   
8. \(\frac{1}{4} \times 17\)   
9. \(\frac{3}{5} \times 51\)   
10. \(8\frac{4}{9} \times 3\frac{6}{7}\)   
11. \(\frac{12}{15} \times 8\)   
12. \(17 \times \frac{1}{2}\)   
13. \(\frac{1}{3} \times 2\frac{4}{10}\)   
14. \(7\frac{5}{8} \times 2\frac{2}{3}\)   
15. \(\frac{5}{12} \times 12\)   

16. Show three ways to estimate \(\frac{3}{5} \times 9\frac{1}{2}\). Identify each method you use.

17. Jenna lives \(4\frac{3}{10}\) miles from school. She estimates that she travels \(4 \times 2 \times 5\), or 40 miles each week. Is her estimate an overestimate or an underestimate? Explain.

18. Which benchmark fraction could you use to estimate the product of \(36 \times \frac{11}{16}\)?

19. Estimation Which is the best estimate for the area of a square with sides equal to \(4\frac{1}{8}\) inches?

   A 6 sq in.   
   B 12 sq in.   
   C 16 sq in.   
   D 20 sq in.

20. Bryce has 24 baseball trophies. Matt has \(\frac{3}{4}\) as many trophies as Bryce. How many trophies does Matt have?

   A 6 trophies   
   B 12 trophies   
   C 18 trophies   
   D 24 trophies