

Lesson 1-7: Multiply Rational Numbers

1. Sample answer: If the rational numbers have different signs, the product is negative; if the rational numbers have the same sign, the product is positive.
2. Sample answer: Write the numbers in the same form and multiply. Since the signs are different, the product is negative.
3. Sample answer: The number line shows that the negative number, $-\frac{2}{3}$, is multiplied $3\frac{1}{2}$ times and the product, $-2\frac{1}{3}$, is negative.
4. $-4\frac{1}{2}$
5. B, E
6. a. 8.99
b. $-\frac{5}{2}$
c. $-1\frac{3}{4}$ or -1.75
d. $\frac{1}{10}$
7. -48.9582
8. $-11\frac{11}{12}$
9. $4\frac{1}{6}$
10. $22\frac{9}{32}$
11. $20\frac{5}{8}$
12. 0.372
13. $\frac{1}{6}$
14. $-\frac{5}{48}$
15. a. -\$12.71
b. \$36.93
16. a. - 1.45
b. - 7.45
c. \$30.87
17. a. $-\frac{4}{63}$
b. Sample answer: Ming might not have simplified the first factor to be a positive $\frac{4}{9}$. So she ended up with the wrong sign for the product.
18. $5\frac{6}{7} \times (-6\frac{6}{7})$, $-5\frac{1}{8} \times (-2\frac{1}{4})$, $4\frac{4}{7} \times 4\frac{4}{7}$
19. a. $10 \times (-1.3) = -13$
b. A