Multiplying Rational Numbers

fractions

Int.

↓

Rational

Bikini Law

$$\frac{1}{\cancel{2}} \cdot \frac{1}{\cancel{4}_{2}} = \frac{1}{10}$$

$$\frac{1\cancel{3}}{1\cancel{5}} \cdot \frac{\cancel{10}^{2}}{\cancel{21}7} = \frac{2}{7}$$

$$\frac{30}{105}$$

$$\frac{\cancel{40}^{5}}{\cancel{56}_{8}} \cdot \frac{\cancel{7}^{1}}{9} = \frac{5}{9}$$

$$\frac{280}{504} =$$

$$\frac{\cancel{14}^{1}}{\cancel{16}_{8}} \cdot \frac{\cancel{8}^{1}}{\cancel{7}_{1}}$$

$$\frac{1}{1} = 1$$

$\frac{3}{2} \cdot \frac{3}{7}$

$\frac{9}{14}$

$\frac{4}{7} \cdot \frac{5}{7}$

$\frac{20}{49}$

$$\frac{10}{14} \cdot \frac{15}{30} \cdot \frac{6}{5}$$

$$\frac{3}{7}$$

Basic Worksheet for 160 – 163

Multiply. Give each product in simplest form.

1. $\frac{3}{4} \times \frac{5}{6} = \frac{5}{8}$

2. $\frac{2}{9} \times \frac{6}{7} = \frac{4}{21}$

3. $\frac{7}{10} \times \frac{6}{7} = \frac{3}{5}$

4. $\frac{1}{9} \times \frac{3}{8} = \frac{1}{6}$

5. $\frac{5}{8} \times \frac{2}{3} = \frac{5}{8}$

6. $\frac{4}{5} \times \frac{5}{4} = 1$

7. $\frac{3}{4} \times \frac{6}{7} = \frac{9}{14}$

8. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

9. $\frac{1}{2} \times \frac{2}{5} = \frac{1}{5}$

10. $\frac{3}{5} \times \frac{10}{9} = \frac{2}{3}$

11. $\frac{7}{8} \times \frac{0}{7} = \frac{0}{8} = 0$

12. $\frac{1}{3} \times \frac{3}{2} = \frac{1}{2}$

13. $\frac{4}{5} \times \frac{2}{3}$ $\frac{8}{15}$

14. $\frac{3}{4} \times \frac{3}{4}$ $\frac{9}{16}$

15. $\frac{9}{4} \times \frac{3}{8}$ $\frac{27}{32}$

16. $\frac{4}{5} \times \frac{5}{4}$ $\frac{4}{5}$

17. $\frac{1}{3} \times \frac{1}{3}$ $\frac{1}{9}$

18. $\frac{1}{2} \times \frac{7}{2}$ $\frac{7}{4}$ $1\frac{3}{4}$

1. $\frac{1}{2} \times \frac{7}{9} = \frac{7}{18}$

2. $\frac{1}{3} \times \frac{3}{2} = \frac{1}{6}$

3. $\frac{1}{4} \times \frac{2}{3} = \frac{1}{12}$

4. $\frac{2}{3} \times \frac{3}{11} = \frac{-3}{11}$

5. $\frac{2}{11} \times \frac{3}{7} = \frac{6}{77}$

6. $\frac{5}{8} \times \frac{1}{9} = \frac{-5}{18}$

#7-27

7. $\frac{3}{5} \times \frac{3}{4} =$

8. $\frac{3}{4} \times \frac{1}{12} =$

9. $\frac{7}{8} \times \frac{6}{5} =$

10. $\frac{3}{8} \times \frac{2}{3} =$

11. $\frac{7}{12} \times \frac{5}{14} =$

12. $\frac{3}{5} \times \frac{1}{2} =$

13. $\frac{9}{10} \times \frac{5}{9} =$

14. $\frac{11}{12} \times \frac{9}{11} =$

15. $\frac{5}{9} \times \frac{9}{20} =$

16. $\frac{-2}{5} \times \frac{-1}{4} =$

17. $\frac{-12}{18} \times \frac{-3}{4} =$

18. $\frac{11}{12} \times \frac{24}{33} =$

19. $\frac{7}{9} \times \frac{36}{63} =$

20. $\frac{-5}{6} \times \frac{6}{10} =$

21. $\frac{5}{6} \times \frac{18}{23} =$

22. $\frac{-1}{2} \times \frac{14}{15} =$

23. $\frac{3}{8} \times \frac{-5}{6} =$

24. $\frac{-8}{9} \times \frac{-5}{16} =$

25. $\frac{63}{81} \times \frac{9}{7} =$

26. $\frac{20}{21} \times \frac{3}{4} =$

27. $\frac{24}{30} \times \frac{5}{6} =$

9. $\frac{2}{3} \times 1\frac{4}{5} =$

10. $1\frac{3}{4} \times -3\frac{1}{5} =$

11. $\frac{3}{4} \times 1\frac{1}{2} =$

12. $-4\frac{1}{3} \times -2\frac{1}{7} =$

13. $-5\frac{3}{6} \times 2\frac{3}{6} =$

14. $6\frac{2}{7} \times -2\frac{1}{10} =$

15. $3\frac{1}{3} \times 2\frac{1}{4} =$

16. $5\frac{5}{6} \times \frac{1}{14} =$

17. $4\frac{3}{4} \times 2\frac{2}{3} =$

18. $1\frac{7}{9} \times 4\frac{1}{2} \times 2 =$

19. $1\frac{1}{2} \times 2\frac{2}{5} \times 3 =$

20. $\frac{2}{3} \times 5 \times 3\frac{1}{5} =$

21. $\left(\frac{2}{3} - \frac{1}{4}\right) \times 3\frac{1}{3} =$

22. $\left(1\frac{2}{3} + \frac{3}{4}\right) - 1\frac{1}{8} =$

23. $\left(2\frac{1}{5} \times \frac{5}{11}\right) + 5\frac{7}{12} =$