

Dividing Mixed Fractions Extra Practice Worksheets

1.  $6\frac{1}{4} \div 5$

2.  $12 \div 1\frac{3}{5}$

3.  $20 \div 1\frac{1}{5}$

4.  $1\frac{7}{8} \div 12$

5.  $3\frac{3}{4} \div 2\frac{1}{2}$

6.  $1\frac{1}{2} \div 2\frac{1}{3}$

7.  $8\frac{1}{3} \div 5\frac{5}{6}$

8.  $5\frac{7}{9} \div 3\frac{1}{9}$

$$9. 1\frac{3}{10} \div 2\frac{1}{6}$$

$$10. 4\frac{4}{15} \div 3\frac{7}{9}$$

$$11. 2\frac{2}{3} \div 3\frac{1}{9}$$

$$12. \frac{10}{1\frac{1}{4}}$$

$$13. \frac{12\frac{1}{4}}{7}$$

$$14. \frac{5\frac{1}{4}}{2\frac{5}{8}}$$

$$15. \frac{10\frac{1}{2}}{2\frac{1}{4}}$$

## Answers

$$1. \quad 6\frac{1}{4} \div 5 = \frac{25}{4} \div \frac{5}{1} = \frac{25}{4} \times \frac{1}{5} = \frac{25^5}{4} \times \frac{1}{5_1} = \frac{5}{4} = 1\frac{1}{4}$$

$$2. \quad 12 \div 1\frac{3}{5} = \frac{12}{1} \div \frac{8}{5} = \frac{12}{1} \times \frac{5}{8} = \frac{12^3}{1} \times \frac{5}{8_2} = \frac{3 \times 5}{2} = \frac{15}{2} = 7\frac{1}{2}$$

$$3. \quad 20 \div 1\frac{1}{5} = \frac{20}{1} \div \frac{6}{5} = \frac{20}{1} \times \frac{5}{6} = \frac{20^5}{1} \times \frac{5}{6_3} = \frac{5 \times 5}{3} = \frac{25}{3} = 8\frac{1}{3}$$

$$4. \quad 1\frac{7}{8} \div 12 = \frac{15}{8} \div \frac{12}{1} = \frac{15}{8} \times \frac{1}{12} = \frac{15^5}{8} \times \frac{1}{12_4} = \frac{5}{8 \times 4} = \frac{5}{32}$$

$$5. \quad 3\frac{3}{4} \div 2\frac{1}{2} = \frac{15}{4} \div \frac{5}{2} = \frac{15}{4} \times \frac{2}{5} = \frac{15^3}{4_2} \times \frac{2^1}{5_1} = \frac{3}{2} = 1\frac{1}{2}$$

$$6. \quad 1\frac{1}{2} \div 2\frac{1}{3} = \frac{3}{2} \div \frac{7}{3} = \frac{3}{2} \times \frac{3}{7} = \frac{9}{14}$$

$$7. \quad 8\frac{1}{3} \div 5\frac{5}{6} = \frac{25}{3} \div \frac{35}{6} = \frac{25^5}{3} \times \frac{6^2}{35_7} = \frac{5 \times 2}{3} = \frac{10}{3} = 3\frac{1}{3}$$

$$8. \quad 5\frac{7}{9} \div 3\frac{1}{9} = \frac{52}{9} \div \frac{28}{9} = \frac{52}{9} \times \frac{9}{28} = \frac{52^{13}}{9_1} \times \frac{9^1}{28_7} = \frac{13}{7} = 1\frac{6}{7}$$

$$9. \quad 1\frac{3}{10} \div 2\frac{1}{6} = \frac{13}{10} \div \frac{13}{6} = \frac{13}{10} \times \frac{6}{13} = \frac{13^1}{10_5} \times \frac{6^3}{13_1} = \frac{3}{5}$$

$$10. \quad 8\frac{1}{8} \div 2\frac{1}{12} = \frac{65}{8} \div \frac{25}{12} = \frac{65}{8} \times \frac{12}{25} = \frac{65^{13}}{8_2} \times \frac{12^3}{25_5} = \frac{13 \times 3}{2 \times 5} = \frac{39}{10} = 3\frac{9}{10}$$

$$11. \quad 2\frac{2}{3} \div 3\frac{1}{9} = \frac{8}{3} \div \frac{28}{9} = \frac{8}{3} \times \frac{9}{28} = \frac{8^2}{3_1} \times \frac{9^3}{28_7} = \frac{2 \times 3}{7} = \frac{6}{7}$$

$$12. \quad \frac{10}{1\frac{1}{4}} = \frac{10}{\frac{1}{1\frac{1}{4}}} = \frac{10}{1} \div 1\frac{1}{4} = \frac{10}{1} \div \frac{5}{4} = \frac{10}{1} \times \frac{4}{5} = \frac{10^2}{1} \times \frac{4}{5_1} = 2 \times 4 = 8$$

$$13. \quad \frac{12\frac{1}{4}}{7} = \frac{12\frac{1}{4}}{\frac{7}{1}} = 12\frac{1}{4} \div \frac{7}{1} = \frac{49}{4} \div \frac{7}{1} = \frac{49}{4} \times \frac{1}{7} = \frac{49^7}{4} \times \frac{1}{7_1} = \frac{7}{4} = 1\frac{3}{4}$$

$$14. \quad \frac{5\frac{1}{4}}{2\frac{5}{8}} = 5\frac{1}{4} \div 2\frac{5}{8} = \frac{21}{4} \div \frac{21}{8} = \frac{21}{4} \times \frac{8}{21} = \frac{21^1}{4_1} \times \frac{8^2}{21_1} = 2$$

$$15. \quad \frac{10\frac{1}{2}}{2\frac{1}{4}} = 10\frac{1}{2} \div 2\frac{1}{4} = \frac{21}{2} \div \frac{9}{4} = \frac{21}{2} \times \frac{4}{9} = \frac{21^7}{2_1} \times \frac{4^2}{9_3} = \frac{7 \times 2}{3} = \frac{14}{3} = 4\frac{2}{3}$$