Dividing fractions

Keep the first fraction, turn the second upside down and multiply. Simplest form.

Name _____ Date _____

1. $\frac{5}{8} \div \frac{1}{5} =$
2. $\frac{1}{6} \div \frac{1}{4} =$
3. $\frac{3}{5} \div \frac{1}{5} =$
4. $\frac{1}{5} \div \frac{1}{10} =$
5. $\frac{5}{6} \div \frac{5}{12} =$
6. $\frac{5}{6} \div \frac{7}{10} =$
7. $\frac{1}{3} \div \frac{5}{6} =$
8. $\frac{2}{3} \div \frac{3}{10} =$
9. $\frac{8}{9} \div \frac{4}{9} =$
10. $\frac{1}{6} \div \frac{1}{2} =$
11. $\frac{3}{4} \div \frac{1}{8} =$
12. $\frac{2}{3} \div \frac{1}{2} =$
13. $\frac{1}{2} \div \frac{1}{6} =$
14. $\frac{3}{4} \div \frac{1}{4} =$
15. $\frac{5}{8} \div \frac{1}{6} =$
16. $\frac{2}{9} \div \frac{3}{4} =$
17. $\frac{5}{9} \div \frac{4}{9} =$
18. $\frac{1}{3} \div \frac{4}{9} =$
19. $\frac{1}{4} \div \frac{1}{3} =$
20. $\frac{8}{9} \div \frac{1}{2} =$

Dividing fractions: answer key

Each answer in colour, with the working before it.

1. $\frac{5}{8} \div \frac{1}{5} = \frac{5}{8} \times \frac{5}{1} = \frac{25}{8} = 3\frac{1}{8}$

2. $\frac{1}{6} \div \frac{1}{4} = \frac{1}{6} \times \frac{4}{1} = \frac{4}{6} = \frac{2}{3}$

3. $\frac{3}{5} \div \frac{1}{5} = \frac{3}{5} \times \frac{5}{1} = \frac{15}{5} = 3$

4. $\frac{1}{5} \div \frac{1}{10} = \frac{1}{5} \times \frac{10}{1} = \frac{10}{5} = 2$

5. $\frac{5}{6} \div \frac{5}{12} = \frac{5}{6} \times \frac{12}{5} = \frac{60}{30} = 2$

6. $\frac{5}{6} \div \frac{7}{10} = \frac{5}{6} \times \frac{10}{7} = \frac{50}{42} = \frac{25}{21} = 1\frac{4}{21}$

7. $\frac{1}{3} \div \frac{5}{6} = \frac{1}{3} \times \frac{6}{5} = \frac{6}{15} = \frac{2}{5}$

8. $\frac{2}{3} \div \frac{3}{10} = \frac{2}{3} \times \frac{10}{3} = \frac{20}{9} = 2\frac{2}{9}$

9. $\frac{8}{9} \div \frac{4}{9} = \frac{8}{9} \times \frac{9}{4} = \frac{72}{36} = 2$

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

11. $\frac{3}{4} \div \frac{1}{8} = \frac{3}{4} \times \frac{8}{1} = \frac{24}{4} = 6$

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

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

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

15. $\frac{5}{8} \div \frac{1}{6} = \frac{5}{8} \times \frac{6}{1} = \frac{30}{8} = \frac{15}{4} = 3\frac{3}{4}$

16. $\frac{2}{9} \div \frac{3}{4} = \frac{2}{9} \times \frac{4}{3} = \frac{8}{27}$

17. $\frac{5}{9} \div \frac{4}{9} = \frac{5}{9} \times \frac{9}{4} = \frac{45}{36} = \frac{5}{4} = 1\frac{1}{4}$

18. $\frac{1}{3} \div \frac{4}{9} = \frac{1}{3} \times \frac{9}{4} = \frac{9}{12} = \frac{3}{4}$

19. $\frac{1}{4} \div \frac{1}{3} = \frac{1}{4} \times \frac{3}{1} = \frac{3}{4}$

20. $\frac{8}{9} \div \frac{1}{2} = \frac{8}{9} \times \frac{2}{1} = \frac{16}{9} = 1\frac{7}{9}$