Multiplying and dividing fractions

Watch the sign. To divide, keep the first fraction, turn the second upside down and multiply.

Name _____ Date _____

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

2. $\frac{4}{5} \div \frac{11}{12} =$

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

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

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

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

7. $\frac{7}{9} \times \frac{9}{10} =$

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

9. $\frac{4}{5} \div \frac{2}{9} =$

10. $\frac{1}{3} \div \frac{4}{9} =$

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

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

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

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

15. $\frac{1}{2} \div \frac{2}{5} =$

16. $\frac{2}{3} \times \frac{7}{10} =$

17. $\frac{7}{12} \div \frac{1}{8} =$

18. $\frac{2}{3} \times \frac{11}{12} =$

19. $\frac{7}{10} \times \frac{1}{4} =$

20. $\frac{1}{2} \div \frac{1}{6} =$

Multiplying and dividing fractions: answer key

Each answer in colour, with the working before it.

1. $\frac{7}{8} \div \frac{2}{9} = \frac{7}{8} \times \frac{9}{2} = \frac{63}{16} = 3\frac{15}{16}$

2. $\frac{4}{5} \div \frac{11}{12} = \frac{4}{5} \times \frac{12}{11} = \frac{48}{55}$

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

4. $\frac{5}{9} \times \frac{1}{3} = \frac{5}{27}$

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

6. $\frac{1}{4} \times \frac{1}{8} = \frac{1}{32}$

7. $\frac{7}{9} \times \frac{9}{10} = \frac{63}{90} = \frac{7}{10}$

8. $\frac{3}{4} \times \frac{1}{5} = \frac{3}{20}$

9. $\frac{4}{5} \div \frac{2}{9} = \frac{4}{5} \times \frac{9}{2} = \frac{36}{10} = \frac{18}{5} = 3\frac{3}{5}$

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

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

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

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

14. $\frac{1}{9} \times \frac{2}{3} = \frac{2}{27}$

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

16. $\frac{2}{3} \times \frac{7}{10} = \frac{14}{30} = \frac{7}{15}$

17. $\frac{7}{12} \div \frac{1}{8} = \frac{7}{12} \times \frac{8}{1} = \frac{56}{12} = \frac{14}{3} = 4\frac{2}{3}$

18. $\frac{2}{3} \times \frac{11}{12} = \frac{22}{36} = \frac{11}{18}$

19. $\frac{7}{10} \times \frac{1}{4} = \frac{7}{40}$

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