Dividing mixed numbers

Write each mixed number as a fraction, then keep, turn the second upside down and multiply.

Name _____ Date _____

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

2. $2 \div 3\frac{5}{6} =$

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

4. $4\frac{1}{2} \div \frac{5}{6} =$

5. $2\frac{3}{5} \div \frac{5}{6} =$

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

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

8. $3 \div 2\frac{1}{3} =$

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

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

11. $3\frac{4}{5} \div 5 =$

12. $3\frac{1}{4} \div \frac{1}{5} =$

13. $8 \div 2\frac{1}{5} =$

14. $1\frac{1}{3} \div 3\frac{4}{5} =$

15. $5\frac{2}{3} \div 2\frac{3}{4} =$

16. $2\frac{1}{3} \div 2\frac{1}{4} =$

17. $3\frac{1}{4} \div \frac{1}{3} =$

18. $4\frac{1}{6} \div \frac{1}{3} =$

19. $1\frac{1}{6} \div 2 =$

20. $6 \div 3\frac{3}{5} =$

Dividing mixed numbers: answer key

Each answer in colour, with the working before it.

1. $3\frac{4}{5} \div 2\frac{1}{2} = \frac{19}{5} \div \frac{5}{2} = \frac{19}{5} \times \frac{2}{5} = \frac{38}{25}$
   $= 1\frac{13}{25}$

2. $2 \div 3\frac{5}{6} = 2 \div \frac{23}{6} = 2 \times \frac{6}{23} = \frac{12}{23}$

3. $4\frac{3}{4} \div 1\frac{1}{4} = \frac{19}{4} \div \frac{5}{4} = \frac{19}{4} \times \frac{4}{5} = \frac{76}{20}$
   $= \frac{19}{5} = 3\frac{4}{5}$

4. $4\frac{1}{2} \div \frac{5}{6} = \frac{9}{2} \div \frac{5}{6} = \frac{9}{2} \times \frac{6}{5} = \frac{54}{10} = \frac{27}{5}$
   $= 5\frac{2}{5}$

5. $2\frac{3}{5} \div \frac{5}{6} = \frac{13}{5} \div \frac{5}{6} = \frac{13}{5} \times \frac{6}{5} = \frac{78}{25}$
   $= 3\frac{3}{25}$

6. $4\frac{1}{3} \div 5 = \frac{13}{3} \div 5 = \frac{13}{3} \times \frac{1}{5} = \frac{13}{15}$

7. $3\frac{5}{6} \div 2\frac{1}{2} = \frac{23}{6} \div \frac{5}{2} = \frac{23}{6} \times \frac{2}{5} = \frac{46}{30}$
   $= \frac{23}{15} = 1\frac{8}{15}$

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

9. $3\frac{1}{3} \div \frac{3}{4} = \frac{10}{3} \div \frac{3}{4} = \frac{10}{3} \times \frac{4}{3} = \frac{40}{9}$
   $= 4\frac{4}{9}$

10. $1\frac{2}{5} \div 4 = \frac{7}{5} \div 4 = \frac{7}{5} \times \frac{1}{4} = \frac{7}{20}$

11. $3\frac{4}{5} \div 5 = \frac{19}{5} \div 5 = \frac{19}{5} \times \frac{1}{5} = \frac{19}{25}$

12. $3\frac{1}{4} \div \frac{1}{5} = \frac{13}{4} \div \frac{1}{5} = \frac{13}{4} \times \frac{5}{1} = \frac{65}{4}$
   $= 16\frac{1}{4}$

13. $8 \div 2\frac{1}{5} = 8 \div \frac{11}{5} = 8 \times \frac{5}{11} = \frac{40}{11} = 3\frac{7}{11}$

14. $1\frac{1}{3} \div 3\frac{4}{5} = \frac{4}{3} \div \frac{19}{5} = \frac{4}{3} \times \frac{5}{19} = \frac{20}{57}$

15. $5\frac{2}{3} \div 2\frac{3}{4} = \frac{17}{3} \div \frac{11}{4} = \frac{17}{3} \times \frac{4}{11} = \frac{68}{33}$
   $= 2\frac{2}{33}$

16. $2\frac{1}{3} \div 2\frac{1}{4} = \frac{7}{3} \div \frac{9}{4} = \frac{7}{3} \times \frac{4}{9} = \frac{28}{27}$
   $= 1\frac{1}{27}$

17. $3\frac{1}{4} \div \frac{1}{3} = \frac{13}{4} \div \frac{1}{3} = \frac{13}{4} \times \frac{3}{1} = \frac{39}{4}$
   $= 9\frac{3}{4}$

18. $4\frac{1}{6} \div \frac{1}{3} = \frac{25}{6} \div \frac{1}{3} = \frac{25}{6} \times \frac{3}{1} = \frac{75}{6}$
   $= \frac{25}{2} = 12\frac{1}{2}$

19. $1\frac{1}{6} \div 2 = \frac{7}{6} \div 2 = \frac{7}{6} \times \frac{1}{2} = \frac{7}{12}$

20. $6 \div 3\frac{3}{5} = 6 \div \frac{18}{5} = 6 \times \frac{5}{18} = \frac{30}{18} = \frac{5}{3}$
   $= 1\frac{2}{3}$