Multiplying mixed numbers

Write each mixed number as a fraction first, then multiply. Simplest form.

Name _____ Date _____

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

Multiplying mixed numbers: answer key

Each answer in colour, with the working before it.

1. $2\frac{2}{3} \times 1\frac{1}{2} = \frac{8}{3} \times \frac{3}{2} = \frac{24}{6} = 4$

2. $2\frac{2}{3} \times 2\frac{3}{5} = \frac{8}{3} \times \frac{13}{5} = \frac{104}{15} = 6\frac{14}{15}$

3. $1\frac{1}{5} \times 2\frac{1}{2} = \frac{6}{5} \times \frac{5}{2} = \frac{30}{10} = 3$

4. $1\frac{1}{3} \times \frac{5}{6} = \frac{4}{3} \times \frac{5}{6} = \frac{20}{18} = \frac{10}{9} = 1\frac{1}{9}$

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

6. $2\frac{3}{5} \times 1\frac{2}{3} = \frac{13}{5} \times \frac{5}{3} = \frac{65}{15} = \frac{13}{3} = 4\frac{1}{3}$

7. $2\frac{1}{5} \times \frac{2}{3} = \frac{11}{5} \times \frac{2}{3} = \frac{22}{15} = 1\frac{7}{15}$

8. $2\frac{1}{5} \times 3\frac{2}{3} = \frac{11}{5} \times \frac{11}{3} = \frac{121}{15} = 8\frac{1}{15}$

9. $3\frac{5}{6} \times \frac{2}{3} = \frac{23}{6} \times \frac{2}{3} = \frac{46}{18} = \frac{23}{9} = 2\frac{5}{9}$

10. $3\frac{2}{5} \times 1\frac{2}{3} = \frac{17}{5} \times \frac{5}{3} = \frac{85}{15} = \frac{17}{3} = 5\frac{2}{3}$

11. $3\frac{1}{5} \times 2\frac{1}{2} = \frac{16}{5} \times \frac{5}{2} = \frac{80}{10} = 8$

12. $3\frac{1}{2} \times 1\frac{1}{4} = \frac{7}{2} \times \frac{5}{4} = \frac{35}{8} = 4\frac{3}{8}$

13. $3\frac{1}{3} \times 2\frac{1}{3} = \frac{10}{3} \times \frac{7}{3} = \frac{70}{9} = 7\frac{7}{9}$

14. $1\frac{1}{3} \times \frac{2}{3} = \frac{4}{3} \times \frac{2}{3} = \frac{8}{9}$

15. $2\frac{2}{3} \times 2\frac{1}{4} = \frac{8}{3} \times \frac{9}{4} = \frac{72}{12} = 6$

16. $3\frac{1}{3} \times \frac{1}{6} = \frac{10}{3} \times \frac{1}{6} = \frac{10}{18} = \frac{5}{9}$

17. $3\frac{2}{5} \times 3\frac{1}{2} = \frac{17}{5} \times \frac{7}{2} = \frac{119}{10} = 11\frac{9}{10}$

18. $2\frac{1}{5} \times \frac{5}{6} = \frac{11}{5} \times \frac{5}{6} = \frac{55}{30} = \frac{11}{6} = 1\frac{5}{6}$

19. $2\frac{1}{2} \times 1\frac{5}{6} = \frac{5}{2} \times \frac{11}{6} = \frac{55}{12} = 4\frac{7}{12}$

20. $1\frac{1}{3} \times \frac{2}{5} = \frac{4}{3} \times \frac{2}{5} = \frac{8}{15}$