Multiplying Fractions with Cancelling

Multiply the following fractions. Show ALL working.

1) $\dfrac{5}{6} \times \dfrac{2}{3} =$

2) $\dfrac{3}{5} \times \dfrac{2}{9} =$

3) $\dfrac{14}{20} \times \dfrac{7}{21} =$

4) $\dfrac{18}{21} \times \dfrac{7}{9} =$

5) $\dfrac{5}{32} \times \dfrac{16}{45} =$

6) $\dfrac{10}{11} \times \dfrac{1}{5} =$

7) $\dfrac{3}{7} \times \dfrac{2}{6} \times \dfrac{14}{20} =$

8) $\dfrac{20}{45} \times \dfrac{9}{10} \times \dfrac{5}{8} =$

9) $\dfrac{1}{4} \times \dfrac{4}{5} \times \dfrac{5}{6} =$

10) $\dfrac{12}{21} \times \dfrac{7}{8} \times \dfrac{3}{4} =$

11) $\dfrac{10}{13} \times \dfrac{3}{50} \times \dfrac{26}{27} =$

12) $\dfrac{7}{9} \times \dfrac{5}{14} \times \dfrac{18}{25} =$

Multiply the following fractions. Some should first be re-written as improper fractions. Show ALL working.

Example 1: $2\dfrac{4}{5} \times \dfrac{5}{7} = \dfrac{\overset{2}{\cancel{14}}}{\underset{1}{\cancel{5}}} \times \dfrac{\overset{1}{\cancel{5}}}{\underset{1}{\cancel{7}}} = \dfrac{2}{1} = 2$

Example 2: $1\dfrac{2}{15} \times 3 = \dfrac{17}{\underset{5}{\cancel{15}}} \times \dfrac{\overset{1}{\cancel{3}}}{1} = \dfrac{17}{5} = 3\dfrac{2}{5}$

13) $1\dfrac{2}{3} \times \dfrac{12}{15} =$

14) $2\dfrac{1}{7} \times \dfrac{14}{15} =$

15) $3\dfrac{1}{4} \times 8 =$

16) $2\dfrac{1}{5} \times 15 =$

I affirm that this test was done under test conditions. Parent signature: _____

Multiplying Fractions with Cancelling - Answers

1) $\dfrac{5}{\cancel{6}^{\,3}} \times \dfrac{\cancel{2}^{\,1}}{3} = \dfrac{5}{9}$

2) $\dfrac{\cancel{3}^{\,1}}{5} \times \dfrac{2}{\cancel{9}_{\,3}} = \dfrac{2}{15}$

3) $\dfrac{\cancel{14}^{\,7}}{\cancel{20}_{\,10}} \times \dfrac{\cancel{7}^{\,1}}{\cancel{21}_{\,3}} = \dfrac{7}{30}$

4) $\dfrac{\cancel{18}^{\,2}}{\cancel{21}_{\,3}} \times \dfrac{\cancel{7}^{\,1}}{\cancel{9}_{\,1}} = \dfrac{2}{3}$

5) $\dfrac{\cancel{5}^{\,1}}{\cancel{32}_{\,2}} \times \dfrac{\cancel{16}^{\,1}}{\cancel{45}_{\,9}} = \dfrac{1}{18}$

6) $\dfrac{\cancel{10}^{\,2}}{11} \times \dfrac{1}{\cancel{5}_{\,1}} = \dfrac{2}{11}$

7) $\dfrac{\cancel{3}^{\,1}}{\cancel{7}_{\,1}} \times \dfrac{\cancel{2}^{\,1}}{\cancel{6}_{\,2}} \times \dfrac{\cancel{14}^{\,2}}{\cancel{20}_{\,10}} = \dfrac{1}{10}$

8) $\dfrac{\cancel{20}^{\,2}}{\cancel{45}_{\,5}} \times \dfrac{\cancel{9}^{\,1}}{\cancel{10}_{\,1}} \times \dfrac{\cancel{5}^{\,1}}{\cancel{8}_{\,4}} = \dfrac{1}{4}$

9) $\dfrac{1}{\cancel{4}_{\,1}} \times \dfrac{\cancel{4}^{\,1}}{\cancel{5}_{\,1}} \times \dfrac{\cancel{5}^{\,1}}{6} = \dfrac{1}{6}$

10) $\dfrac{\cancel{12}^{\,3}}{\cancel{21}_{\,3}} \times \dfrac{\cancel{7}^{\,1}}{8} \times \dfrac{\cancel{3}^{\,1}}{\cancel{4}_{\,1}} = \dfrac{3}{8}$

11) $\dfrac{\cancel{10}^{\,1}}{\cancel{13}_{\,1}} \times \dfrac{\cancel{3}^{\,1}}{\cancel{50}_{\,5}} \times \dfrac{\cancel{26}^{\,2}}{27} = \dfrac{2}{45}$

12) $\dfrac{\cancel{7}^{\,1}}{\cancel{9}_{\,1}} \times \dfrac{\cancel{5}^{\,1}}{\cancel{14}_{\,1}} \times \dfrac{\cancel{18}^{\,2}}{\cancel{25}_{\,5}} = \dfrac{1}{5}$

13) $1\dfrac{2}{3} \times \dfrac{12}{15} = \dfrac{\cancel{5}^{\,1}}{\cancel{3}_{\,1}} \times \dfrac{\cancel{12}^{\,4}}{\cancel{15}_{\,3}} = \dfrac{4}{3} = 1\dfrac{1}{3}$

14) $2\dfrac{1}{7} \times \dfrac{14}{15} = \dfrac{\cancel{15}^{\,1}}{\cancel{7}_{\,1}} \times \dfrac{\cancel{14}^{\,2}}{\cancel{15}_{\,1}} = \dfrac{2}{1} = 2$

15) $3\dfrac{1}{4} \times 8 = \dfrac{13}{\cancel{4}_{\,1}} \times \dfrac{\cancel{8}^{\,2}}{1} = \dfrac{26}{1} = 26$

16) $2\dfrac{1}{5} \times 15 = \dfrac{11}{\cancel{5}_{\,1}} \times \dfrac{\cancel{15}^{\,3}}{1} = \dfrac{33}{1} = 33$

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