Name: .... Class: ....

Multiply three or more fractions and whole numbers

Multiply the following and symplify the product to either its lowest terms, mixed number or whole number.

1. Example:

$$6 \times \frac{1}{12} \times \frac{3}{15} = \frac{6}{1} \times \frac{1}{12} \times \frac{3}{15} = \frac{6 \times 1 \times 3}{1 \times 12 \times 15} = \frac{\overset{1}{\cancel{18}}}{\underset{10}{\cancel{180}}} = \frac{1}{10}$$

Therefore, $6 \times \frac{3}{15} \times \frac{3}{15} = \frac{1}{10}$

2. $\dfrac{4}{5} \times \dfrac{7}{10} \times \dfrac{1}{12} =$

3. $10 \times \dfrac{1}{3} \times \dfrac{1}{2} \times \dfrac{1}{4} =$

4. $2 \times \dfrac{5}{9} \times \dfrac{3}{4} \times \dfrac{1}{10} =$

5. $5 \times \dfrac{5}{10} \times 9 =$

6. $8 \times \dfrac{11}{10} \times \dfrac{1}{2} =$

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

8. $7 \times \dfrac{5}{8} \times 6 =$

9. $\dfrac{1}{4} \times \dfrac{7}{8} \times \dfrac{2}{5} \times 4 =$

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Therefore, $6 \times \frac{3}{15} \times \frac{3}{15} = \frac{1}{10}$

2. $\dfrac{4}{5} \times \dfrac{7}{10} \times \dfrac{1}{12} = \dfrac{4 \times 7 \times 1}{5 \times 10 \times 12} = \dfrac{\overset{7}{\cancel{28}}}{\underset{150}{\cancel{600}}} = \dfrac{7}{150}$

3. $10 \times \dfrac{1}{3} \times \dfrac{1}{2} \times \dfrac{1}{4} = \dfrac{10 \times 1 \times 1 \times 1}{3 \times 2 \times 4} = \dfrac{\overset{5}{\cancel{10}}}{\underset{12}{\cancel{24}}} = \dfrac{5}{12}$

4. $2 \times \dfrac{5}{9} \times \dfrac{3}{4} \times \dfrac{1}{10} = \dfrac{2 \times 5 \times 3 \times 1}{9 \times 4 \times 10} = \dfrac{\overset{1}{\cancel{30}}}{\underset{12}{\cancel{360}}} = \dfrac{1}{12}$

5. $5 \times \dfrac{5}{10} \times 9 = \dfrac{5 \times 5 \times 9}{10} = \dfrac{\overset{45}{\cancel{225}}}{\underset{2}{\cancel{10}}} = \dfrac{45}{2} = 22\dfrac{1}{2}$

6. $8 \times \dfrac{11}{10} \times \dfrac{1}{2} = \dfrac{8 \times 11 \times 1}{10 \times 2} = \dfrac{\overset{22}{\cancel{88}}}{\underset{5}{\cancel{20}}} = \dfrac{22}{5} = 4\dfrac{2}{5}$

7. $\dfrac{4}{12} \times \dfrac{3}{8} \times \dfrac{2}{5} \times \dfrac{1}{7} = \dfrac{4 \times 3 \times 2 \times 1}{12 \times 8 \times 5 \times 7} = \dfrac{\overset{1}{\cancel{24}}}{\underset{140}{\cancel{3,360}}} = \dfrac{1}{140}$

8. $7 \times \dfrac{5}{8} \times 6 = \dfrac{7 \times 5 \times 6}{8} = \dfrac{\overset{105}{\cancel{210}}}{\underset{4}{\cancel{8}}} = \dfrac{105}{4} = 26\dfrac{1}{4}$

9. $\dfrac{1}{4} \times \dfrac{7}{8} \times \dfrac{2}{5} \times 4 = \dfrac{1 \times 7 \times 2 \times 4}{4 \times 8 \times 5} = \dfrac{\overset{7}{\cancel{56}}}{\underset{20}{\cancel{100}}} = \dfrac{7}{20}$