

Name: Class:

Multiply three or more fractions and whole numbers

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

1. Example :

$$\frac{1}{3} \times \frac{9}{10} \times \frac{3}{11} \times \frac{1}{2} = \frac{1 \times 9 \times 3 \times 1}{3 \times 10 \times 11 \times 2} = \frac{\cancel{27}}{\cancel{660}} = \frac{9}{220}$$

Therefore, $\frac{1}{3} \times \frac{9}{10} \times \frac{3}{11} \times \frac{1}{2} = \frac{9}{220}$

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

3. $\frac{7}{13} \times \frac{2}{9} \times \frac{11}{22} \times \frac{1}{3} \times 2 =$

4. $\frac{1}{4} \times \frac{2}{3} \times \frac{4}{7} \times \frac{1}{2} \times \frac{9}{10} =$

5. $210 \times \frac{1}{10} \times 2 =$

6. $\frac{6}{14} \times \frac{2}{11} \times \frac{1}{15} \times \frac{1}{2} \times \frac{2}{5} =$

7. $15 \times \frac{1}{19} \times \frac{3}{12} =$

8. $\frac{9}{10} \times 9 \times \frac{3}{4} =$

9. $\frac{2}{11} \times \frac{2}{5} \times 17 \times \frac{1}{2} =$

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Therefore, $\frac{1}{3} \times \frac{9}{10} \times \frac{3}{11} \times \frac{1}{2} = \frac{9}{220}$

$$2. \quad \frac{3}{8} \times 20 \times \frac{1}{15} \times 4 = \frac{3 \times 20 \times 1 \times 4}{8 \times 1 \times 15 \times 4} = \frac{\cancel{240}}{\cancel{480}} = \frac{1}{2}$$

$$3. \quad \frac{7}{13} \times \frac{2}{9} \times \frac{11}{22} \times \frac{1}{3} \times 2 = \frac{7 \times 2 \times 11 \times 1 \times 2}{13 \times 9 \times 22 \times 3} = \frac{\cancel{308}}{\cancel{7,722}} = \frac{154}{3,861}$$

$$4. \quad \frac{1}{4} \times \frac{2}{3} \times \frac{4}{7} \times \frac{1}{2} \times \frac{9}{10} = \frac{1 \times 2 \times 4 \times 1 \times 9}{4 \times 3 \times 7 \times 2 \times 10} = \frac{\cancel{72}}{\cancel{1,680}} = \frac{3}{70}$$

$$5. \quad 210 \times \frac{1}{10} \times 2 = \frac{210 \times 1 \times 2}{10} = \frac{\cancel{420}}{\cancel{10}} = \frac{42}{1} = 42$$

$$6. \quad \frac{6}{14} \times \frac{2}{11} \times \frac{1}{15} \times \frac{1}{2} \times \frac{2}{5} = \frac{6 \times 2 \times 1 \times 1 \times 2}{14 \times 11 \times 15 \times 2 \times 5} = \frac{\cancel{24}}{\cancel{23,100}} = \frac{6}{5,775}$$

$$7. \quad 15 \times \frac{1}{19} \times \frac{3}{12} = \frac{15 \times 1 \times 3}{1 \times 19 \times 12} = \frac{\cancel{45}}{\cancel{228}} = \frac{15}{76}$$

$$8. \quad \frac{9}{10} \times 9 \times \frac{3}{4} = \frac{9 \times 9 \times 3}{10 \times 1 \times 4} = \frac{243}{40} = 6 \frac{3}{4}$$

$$9. \quad \frac{2}{11} \times \frac{2}{5} \times 17 \times \frac{1}{2} = \frac{2 \times 2 \times 17 \times 1}{11 \times 5 \times 1 \times 2} = \frac{\cancel{68}}{\cancel{110}} = \frac{34}{55}$$