Outcome 2 - Multiplying Fractions

Bronze examples...

Examples...

To multiply fractions, multiply the numerators and multiply the denominators!

$$\frac{1}{5} \times \frac{1}{6} = \frac{1}{30}$$

$$\frac{2}{3} \times \frac{5}{7} = \frac{10}{21} \qquad \frac{3}{8} \times \frac{3}{5} = \frac{9}{40}$$

Silver examples

Examples...

1. Multiply the numerators!
2. Multiply the denominators!
3. Simplify!

$$\frac{1}{3} \times \frac{3}{5} = \frac{3}{15} = \frac{1}{5}$$

$$\frac{4}{5} \times \frac{1}{4} = \frac{4}{20} = \frac{1}{5}$$

$$\frac{8}{9} \times \frac{1}{6} = \frac{8}{54} = \frac{4}{27}$$

Gold examples

Examples...

1. Change to "Top Heavy"!
2. Multiply the numerators!
3. Multiply the denominators!
4. Write as mixed number and simplify! (if required)

$$2\frac{1}{5} \times 1\frac{3}{8} = \frac{11}{5} \times \frac{11}{8} = \frac{121}{40} = 3\frac{1}{40}$$

$$1\frac{1}{5} \times 3\frac{1}{2} = \frac{6}{5} \times \frac{7}{2} = \frac{42}{10} = 4\frac{2}{10} = 4\frac{1}{5}$$

Bronze Questions

Multiply the following fractions...

1. $\frac{1}{4} \times \frac{1}{5}$
2. $\frac{1}{2} \times \frac{1}{2}$

3. $\frac{1}{9} \times \frac{2}{11}$
4. $\frac{5}{6} \times \frac{1}{7}$

5. $\frac{3}{5} \times \frac{3}{4}$
6. $\frac{7}{9} \times \frac{5}{6}$

7. $\frac{7}{9} \times \frac{10}{11}$
8. $\frac{3}{5} \times \frac{7}{11}$

Silver Questions

Multiply the following fractions...

1. $\frac{1}{2} \times \frac{4}{7}$
2. $\frac{2}{3} \times \frac{1}{12}$

3. $\frac{8}{9} \times \frac{3}{4}$
4. $\frac{4}{7} \times \frac{5}{12}$

5. $\frac{7}{11} \times \frac{3}{10}$
6. $\frac{11}{12} \times \frac{6}{7}$

7. $\frac{4}{9} \times \frac{3}{5}$
8. $\frac{3}{10} \times \frac{5}{12}$

Gold Questions

Multiply the following fractions...

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

3. $3\frac{2}{9} \times 1\frac{1}{6}$
4. $1\frac{4}{7} \times 1\frac{2}{3}$

5. $4\frac{1}{2} \times 3\frac{1}{10}$
6. $2\frac{1}{5} \times 3\frac{1}{3}$

7. $1\frac{1}{2} \times 4\frac{1}{5}$
8. $1\frac{7}{10} \times 2\frac{1}{3}$

Bronze Answers

1. $\frac{1}{20}$ 2. $\frac{1}{4}$

3. $\frac{2}{99}$ 4. $\frac{5}{42}$

5. $\frac{9}{20}$ 6. $\frac{35}{54}$

7. $\frac{70}{99}$ 8. $\frac{21}{55}$

Silver Answers

1. $\frac{2}{7}$ 2. $\frac{1}{18}$

3. $\frac{2}{3}$ 4. $\frac{5}{21}$

5. $\frac{21}{110}$ 6. $\frac{11}{14}$

7. $\frac{4}{15}$ 8. $\frac{1}{8}$

Gold Answers

1. $2\frac{32}{35}$ 2. $16\frac{8}{9}$

3. $3\frac{41}{54}$ 4. $2\frac{13}{21}$

5. $13\frac{19}{20}$ 6. $7\frac{1}{3}$

7. $6\frac{3}{10}$ 8. $3\frac{29}{30}$