

Outcome 3 - Dividing Fractions

Bronze examples...

Examples...

$$\frac{1}{8} \div \frac{1}{3} = \frac{1}{8} \times \frac{3}{1} = \frac{3}{8}$$

$$\frac{5}{7} \div \frac{4}{3} = \frac{5}{7} \times \frac{3}{4} = \frac{15}{28}$$

$$\frac{3}{5} \div \frac{8}{11} = \frac{3}{5} \times \frac{11}{8} = \frac{33}{40}$$

****To divide fractions, turn the second upside down and multiply! ****

Silver examples

Examples...

1. Turn the second fraction upside down and multiply!
2. Write as mixed number and simplify! (if required)

$$\frac{1}{4} \div \frac{3}{10} = \frac{1}{4} \times \frac{10}{3} = \frac{10}{12} = \frac{5}{6}$$

$$\frac{2}{9} \div \frac{11}{12} = \frac{2}{9} \times \frac{12}{11} = \frac{24}{99} = \frac{8}{33}$$

Gold example

Examples...

1. Change to "Top Heavy"!
2. Turn the second fraction upside down and multiply!
3. Write as mixed number and simplify! (if required)

$$2\frac{3}{4} \div 1\frac{9}{10} = \frac{11}{4} \div \frac{19}{10} = \frac{11}{4} \times \frac{10}{19} = \frac{110}{76}$$

$$= 1\frac{34}{76} = 1\frac{17}{38}$$

Bronze Questions

Divide the following fractions...



$$\frac{1}{7} \div \frac{1}{6}$$



$$\frac{1}{9} \div \frac{1}{4}$$



$$\frac{1}{3} \div \frac{5}{8}$$



$$\frac{1}{2} \div \frac{5}{9}$$



$$\frac{3}{7} \div \frac{7}{8}$$



$$\frac{2}{3} \div \frac{9}{13}$$



$$\frac{4}{9} \div \frac{5}{7}$$



$$\frac{3}{11} \div \frac{5}{12}$$

Silver Questions

Divide the following fractions...



$$\frac{1}{10} \div \frac{1}{2}$$



$$\frac{1}{7} \div \frac{11}{14}$$



$$\frac{3}{5} \div \frac{6}{7}$$



$$\frac{3}{5} \div \frac{7}{10}$$



$$\frac{2}{9} \div \frac{2}{3}$$



$$\frac{5}{6} \div \frac{5}{8}$$



$$\frac{5}{8} \div \frac{5}{6}$$



$$\frac{3}{7} \div \frac{9}{13}$$

Gold Questions

Divide the following fractions...



$$2\frac{1}{9} \div 1\frac{1}{2}$$



$$3\frac{1}{6} \div 1\frac{1}{3}$$



$$4\frac{7}{9} \div 1\frac{2}{3}$$



$$1\frac{4}{5} \div 2\frac{3}{10}$$



$$3\frac{7}{9} \div 1\frac{3}{5}$$



$$2\frac{3}{10} \div 1\frac{1}{5}$$



$$3\frac{7}{8} \div 1\frac{3}{7}$$



$$4\frac{1}{5} \div 1\frac{2}{3}$$

Bronze Answers

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|----|-----------------|----|-----------------|
| 1. | $\frac{6}{7}$ | 2. | $\frac{4}{9}$ |
| 3. | $\frac{8}{15}$ | 4. | $\frac{9}{10}$ |
| 5. | $\frac{24}{49}$ | 6. | $\frac{26}{27}$ |
| 7. | $\frac{28}{45}$ | 8. | $\frac{36}{55}$ |

Silver Answers

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|----|----------------|----|-----------------|
| 1. | $\frac{1}{5}$ | 2. | $\frac{2}{11}$ |
| 3. | $\frac{7}{10}$ | 4. | $\frac{6}{7}$ |
| 5. | $\frac{1}{3}$ | 6. | $1\frac{1}{3}$ |
| 7. | $\frac{3}{4}$ | 8. | $\frac{13}{21}$ |

Gold Answers

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|----|------------------|----|------------------|
| 1. | $1\frac{11}{27}$ | 2. | $2\frac{3}{8}$ |
| 3. | $2\frac{13}{15}$ | 4. | $\frac{18}{23}$ |
| 5. | $2\frac{13}{36}$ | 6. | $1\frac{11}{12}$ |
| 7. | $2\frac{57}{80}$ | 8. | $2\frac{13}{25}$ |