

Multiplication and Division of Fractions Practice

1. Multiply and divide the following; simplify where applicable.

$$\text{a) } \frac{3}{7} \times \frac{1}{2}$$

$$= \frac{3}{14}$$

$$\text{b) } \frac{5}{3} \times \frac{2}{7}$$

$$= \frac{10}{21}$$

$$\text{c) } 5 \times \frac{3}{4}$$

$$= \frac{5}{1} \times \frac{3}{4}$$
$$= \frac{15}{4}$$

$$\text{d) } -\frac{5}{3} \times \frac{11}{2}$$

$$= -\frac{55}{6}$$

$$\text{e) } \frac{3}{4} \times -\frac{2}{7}$$

$$= -\frac{6}{28}$$
$$= -\frac{3}{14}$$

$$\text{f) } \frac{3}{2} \div \frac{1}{5}$$

$$= \frac{3}{2} \times \frac{5}{1}$$
$$= \frac{15}{2}$$

$$\text{g) } \frac{1}{8} \div 3$$

$$= \frac{1}{8} \div \frac{3}{1}$$
$$= \frac{1}{8} \times \frac{1}{3}$$
$$= \frac{1}{24}$$

$$\text{h) } \frac{2}{7} \div -\frac{3}{5}$$

$$= \frac{2}{7} \times -\frac{5}{3}$$
$$= -\frac{10}{21}$$

$$\text{i) } -\frac{2}{9} \div -\frac{3}{8}$$

$$= -\frac{2}{9} \times -\frac{8}{3}$$
$$= \frac{16}{27}$$

$$\text{k) } 2\frac{1}{3} \times \frac{2}{4}$$

$$= \frac{7}{3} \times \frac{2}{4}$$
$$= \frac{14}{12}$$
$$= \frac{7}{6}$$

$$\text{l) } \frac{3}{5} \div 3\frac{1}{2}$$

$$= \frac{3}{5} \div \frac{7}{2}$$
$$= \frac{3}{5} \times \frac{2}{7}$$
$$= \frac{6}{35}$$

$$\text{m) } -1\frac{1}{3} \times \frac{2}{5}$$

$$= -\frac{4}{3} \times \frac{2}{5}$$
$$= -\frac{8}{15}$$

Riddle Me This

Evaluate each of the following then turn your calculator upside down to reveal the answers to the riddles. Remember your *BEDMAS* rules!

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|--|--|
| 1. Your car's favourite restaurant. | $(45 \times 356 + 14 \times 87) \div 2 + 2726$ |
| 11345
(Shell) | |
| 2. You might find him in a gaggle. | $186^2 + 19 \times 3 - 24 \times 8 + 545$ |
| 35006
(goose) | |
| 3. Cable and phone. | $4522 + 6(11258 - 25 \times 96 + 8)$ |
| 57718
(bills) | |
| 4. Plump man's ride. | $668^2 + 3(4901 + 200) - 152$ |
| 461375
(sleigh) | |
| 5. To tie the legs of a horse together. | $(524 \times 956 \div 2) + 56 \times 956 + 7(10000) + 3796 + 10^3$ |
| 378804
(hobble) | |
| 6. Central American country that borders Guatemala and Mexico. | $568 \times 587 - 2(56 + 8)^2 - (581 \times 6)$ |
| 321738
(Belize) | |
| 7. H ₂ O at 100°C | $485 \times 96 \div 6 - (7 \times 3 + 8)^2 + 189$ |
| 7108
(Boil) | |
| 8. Artificial precipitation device. | $4(26 \times 35 - 58 \div 2) - 5 \times 4$ |
| 3504
(hose) | |
| 9. Fish have no use for them. | $5(25^3) - 25 \times 8 - 2^{15} + 7888$ |
| 53045
(shoes) | |
| 10. Where Daisy and Rose live. | $(3^2 + 8 \times 10)^2 - 29^2 + 5^2$ |
| 7105
(SOIL) | |

