

Fraction Multiplication Problems Answers

Please note that these answers have not simplified any of the fractions for the answer.

1a) $2/9 \times 7/13 = 14/117$

1b) $7/9 \times 7/13 = 49/117$

2a) $1/2 \times 49/117 = 49/234$

2b) $1/2 \times 49/117 = 49/234$

3) $7/13 - 49/234 = 126/234 - 49/234 = 77/234$

4a) Quiche: $2/5 \times 2/5 = 4/25$

Carton of juice: $2/5 \times 3/7 = 6/35$

Chocolate bar: $2/5 \times 4/9 = 8/45$

Cucumber: $2/5 \times 2/3 = 4/15$

4b) Quiche: $1/2 \times 2/5 = 2/10$

Carton of juice: $1/2 \times 3/7 = 3/14$

Chocolate bar: $1/2 \times 4/9 = 4/18$

Cucumber: $1/2 \times 2/3 = 2/6$

4c) Quiche: $5/7 \times 2/5 = 10/35$

Carton of juice: $5/7 \times 3/7 = 15/49$

Chocolate bar: $5/7 \times 4/9 = 20/63$

Cucumber: $5/7 \times 2/3 = 10/21$

5) Flour: $3/7 \times 2/3 = 6/21$

Sugar: $3/7 \times 6/8 = 18/56$

Butter: $3/7 \times 5/10 = 15/70$

Salt: $3/7 \times 3/9 = 9/63$

6) Check own questions

$$7) \quad 6/8 \div 5 = 6/8 \div 5/1 = 6/8 \times 1/5 = 6/40$$

$$8) \quad 5/7 \div 4 = 5/7 \div 4/1 = 5/7 \times 1/4 = 5/28$$

$$9) \quad 5/7 \div 5 = 5/7 \div 5/1 = 5/7 \times 1/5 = 5/35$$

Mr Wrighton gets 10/35

Everyone else gets 5/35

$$10a) \quad 1/2 \div 6 = 1/2 \div 6/1 = 1/2 \times 1/6 = 1/12$$

$$10b) \quad 3/4 \div 6 = 3/4 \div 6/1 = 3/4 \times 1/6 = 3/24$$

$$11) \quad 1/2 \div 5 = 1/2 \div 5/1 = 1/2 \times 1/5 = 1/10$$

$$12a) \quad 3/8 \div 5 = 3/8 \div 5/1 = 3/8 \times 1/5 = 3/40$$

$$12b) \quad 3/40 \text{ of } 1000\text{g} = 75\text{g}$$

$$13a) \quad 0.7 = 7/10$$

$$4/5 \times 7/10 = 28/50$$

$$28/50 \div 8 = 28/50 \div 8/1 = 28/50 \times 1/8 = 28/400$$

$$13b) \quad 4/5 \text{ of } 0.7 = 0.56$$

$$0.56 \div 8 = 0.07$$

$$0.07\text{kg} = 70\text{g}$$