

Multiply. Write the answer in simplest form. (Section 2.1)

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

2. $\frac{9}{10} \times \frac{2}{3}$

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

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

Divide. Write the answer in simplest form. (Section 2.2 and Section 2.3)

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

6. $7 \div \frac{5}{8}$

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

8. $7\frac{2}{3} \div 1\frac{1}{9}$

Evaluate the expression. Write the answer in simplest form. (Section 2.2 and Section 2.3)

9. $6 \div \frac{2}{3} + \frac{1}{2}$

10. $\frac{7}{12} \div \frac{1}{4} \times \frac{9}{14}$

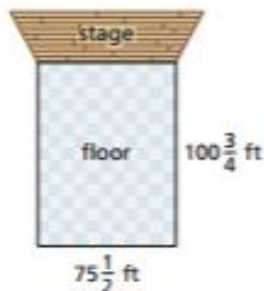
11. $3\frac{1}{3} \times 3\frac{3}{4} \div \frac{5}{6}$

12. $6\frac{2}{9} \div \left(4 \times 1\frac{1}{6}\right)$

Don't DO these

13. **MALL** In a mall, $\frac{1}{15}$ of the stores sell shoes. There are 180 stores in the mall. How many of the stores sell shoes? (Section 2.1)

14. **CONCERT FLOOR** The floor of a concert venue is $100\frac{3}{4}$ feet by $75\frac{1}{2}$ feet. What is the area of the floor? (Section 2.1)



15. **BAND** Band members make $\frac{2}{3}$ of their profit from selling concert tickets. They make $\frac{1}{5}$ of their profit from selling band merchandise at the concerts. How many times more profit do they make from ticket sales than from merchandise sales? (Section 2.2)

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

$\frac{10}{3}$

3 3 more

$$1) \quad \frac{3}{7} * \frac{1}{4} = \frac{3}{28}$$

$$2) \quad \frac{\cancel{3}}{\cancel{9}} * \frac{\cancel{1}}{\cancel{2}} = \frac{3}{5}$$

$$3) \quad \frac{1}{6} * \frac{1}{5} = \frac{1}{30}$$

$$\frac{2}{6} \cdot \frac{2}{5} = \frac{7}{15}$$

$$4) \quad 3\frac{1}{2} * 5\frac{7}{10} = 7\frac{1}{2} * 5\frac{7}{10}$$
$$\frac{399}{20} \text{ or } 19\frac{19}{20}$$

5)

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

$$\frac{1}{3}$$

$$\frac{1}{9} * \frac{3}{1}$$

$$\frac{1}{3}$$

6)

$$7 \div \frac{1}{2}$$

$$14$$

$$7 * \frac{2}{1}$$

$$\frac{56}{5} \text{ or } 11\frac{1}{5}$$

7)

$$4\frac{7}{8} \div \frac{1}{8}$$

$$4\frac{7}{8} * \frac{8}{1}$$

$$39$$

$$39$$

$$39$$

$$8) 7\frac{2}{3} \div 1\frac{1}{9}$$

$$\frac{23}{8} * \frac{39}{10}$$

$$\frac{69}{10} \text{ or } 6\frac{9}{10}$$

$$13) \frac{1}{15} * 180$$

$$\frac{1}{15} * 180$$

$$\frac{1}{15} * 180$$

$$12 \text{ stores}$$

$$14) 100\frac{3}{4} * 75\frac{1}{2}$$

$$\frac{403}{4} * \frac{151}{2}$$

$$\frac{60853}{8}$$

or

$$7606\frac{5}{8}$$