

# Multiply Fractions Answers

## 1. Multiply Fractions with Circles

1.

$$\frac{3}{4} \times 2 = 1 \frac{1}{2}$$

2.

$$\frac{3}{4} \times 3 = 2 \frac{1}{4}$$

3.

$$\frac{7}{8} \times 2 = 1 \frac{3}{4}$$

4.

$$\frac{7}{8} \times 3 = 2 \frac{5}{8}$$

5.

$$\frac{4}{9} \times 2 = \frac{8}{9}$$

6.

$$\frac{4}{9} \times 3 = 1 \frac{1}{3}$$

7.

$$1 \frac{3}{10} \times 2 = 2 \frac{3}{5}$$

8.

$$1 \frac{1}{2} \times 3 = 4 \frac{1}{2}$$

9.

$$2 \frac{5}{8} \times 2 = 5 \frac{1}{4}$$

## 2. Multiply Fractions with Lines

1.

$$\frac{1}{4} \times \frac{2}{3} = \frac{1}{6}$$

2.

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

3.

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

4.

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

5.

$$\frac{1}{2} \times 2 = 1$$

6.

$$\frac{3}{4} \times 2 = 1 \frac{1}{2}$$

7.

$$2 \times 1 \frac{5}{8} = 3 \frac{1}{4}$$

8.

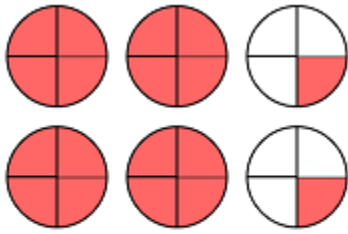
$$1 \frac{5}{8} \times 2 = 3 \frac{1}{4}$$

9.

$$2 \frac{3}{5} \times 1 \frac{1}{2} = 3 \frac{9}{10}$$

### 3. Multiply Fractions with Circles

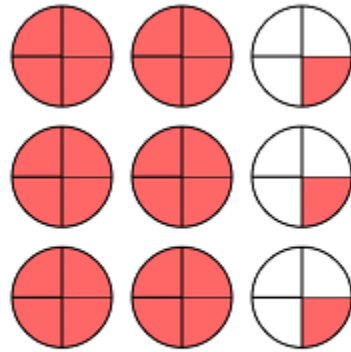
1.



$$2 \frac{1}{4} \times 2 = \frac{9}{2} \times \frac{1}{1} = \frac{9}{2} = 4 \frac{1}{2}$$

first factor (number in each row)    second factor (number of rows)    Write in fraction form, cancel, and multiply.    Simplify.

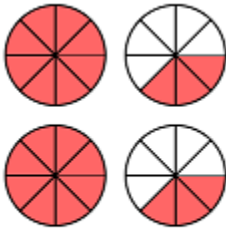
2.



$$2 \frac{1}{4} \times 3 = \frac{9}{4} \times \frac{3}{1} = \frac{27}{4} = 6 \frac{3}{4}$$

first factor (number in each row)    second factor (number of rows)    Write in fraction form and multiply.    Simplify.

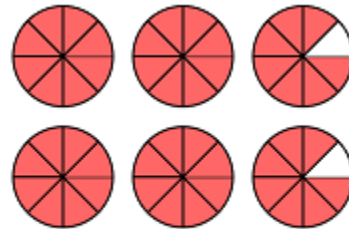
3.



$$1 \frac{3}{8} \times 2 = \frac{11}{4} \times \frac{1}{1} = \frac{11}{4} = 2 \frac{3}{4}$$

first factor (number in each row)    second factor (number of rows)    Write in fraction form, cancel, and multiply.    Simplify.

4.



$$2 \frac{7}{8} \times 2 = \frac{23}{4} \times \frac{1}{1} = \frac{23}{4} = 5 \frac{3}{4}$$

first factor (number in each row)    second factor (number of rows)    Write in fraction form, cancel, and multiply.    Simplify.

5.



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

first factor (number in each row)    second factor (number of rows)    Write in fraction form, cancel, and multiply.    Simplify.

6.



$$\frac{1}{6} \times 3 = \frac{1}{2} \times \frac{1}{1} = \frac{1}{2} = \frac{1}{2}$$

first factor (number in each row)    second factor (number of rows)    Write in fraction form, cancel, and multiply.    Simplify.

# 4. Multiply Fractions with Lines

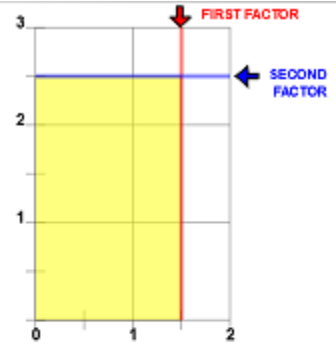
1.



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

first factor (horizontal distance)    second factor (vertical distance)    Write in fraction form, cancel, and multiply. Simplify.

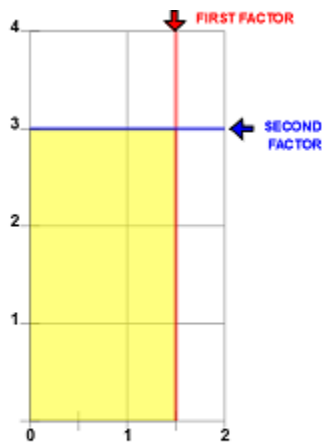
2.



$$1 \frac{1}{2} \times 2 \frac{1}{2} = \frac{3}{2} \times \frac{5}{2} = \frac{15}{4} = 3 \frac{3}{4}$$

first factor (horizontal distance)    second factor (vertical distance)    Write in fraction form and multiply. Simplify.

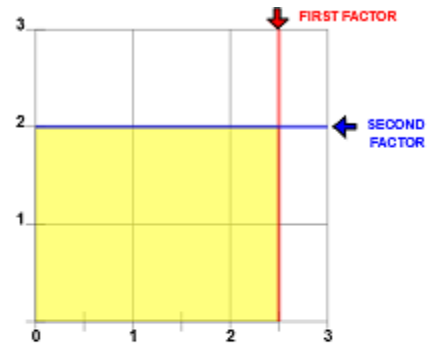
3.



$$1 \frac{1}{2} \times 3 = \frac{3}{2} \times \frac{3}{1} = \frac{9}{2} = 4 \frac{1}{2}$$

first factor (horizontal distance)    second factor (vertical distance)    Write in fraction form and multiply. Simplify.

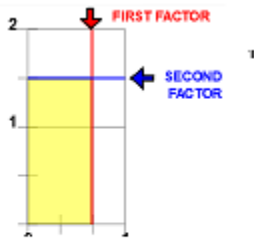
4.



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

first factor (horizontal distance)    second factor (vertical distance)    Write in fraction form, cancel, and multiply. Simplify.

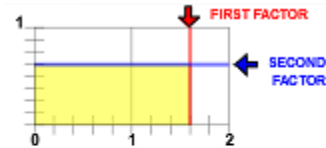
5.



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

first factor (horizontal distance)    second factor (vertical distance)    Write in fraction form, cancel, and multiply. Simplify.

6.

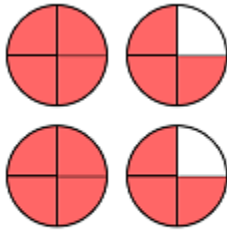


$$1 \frac{3}{5} \times \frac{5}{8} = \frac{8}{5} \times \frac{5}{8} = \frac{1}{1} = 1$$

first factor (horizontal distance)    second factor (vertical distance)    Write in fraction form, cancel, and multiply. Simplify.

## 5. Multiply Fractions with Circles

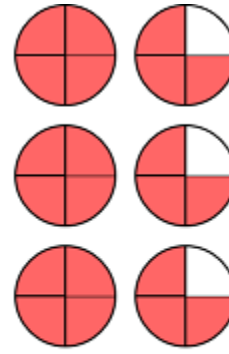
1.



$$1 \frac{3}{4} \times 2 = \frac{7}{2} \times \frac{1}{1} = \frac{7}{2} = 3 \frac{1}{2}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

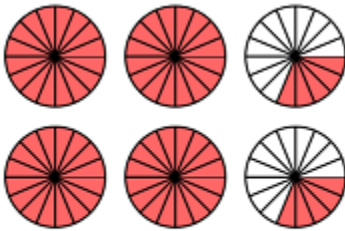
2.



$$1 \frac{3}{4} \times 3 = \frac{7}{4} \times \frac{3}{1} = \frac{21}{4} = 5 \frac{1}{4}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form and multiply.      Simplify.

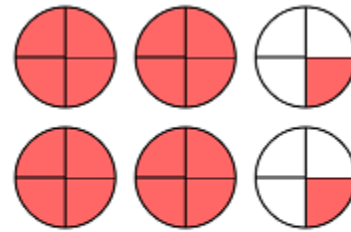
3.



$$2 \frac{5}{16} \times 2 = \frac{37}{8} \times \frac{1}{1} = \frac{37}{8} = 4 \frac{5}{8}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

4.



$$2 \frac{1}{4} \times 2 = \frac{9}{2} \times \frac{1}{1} = \frac{9}{2} = 4 \frac{1}{2}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

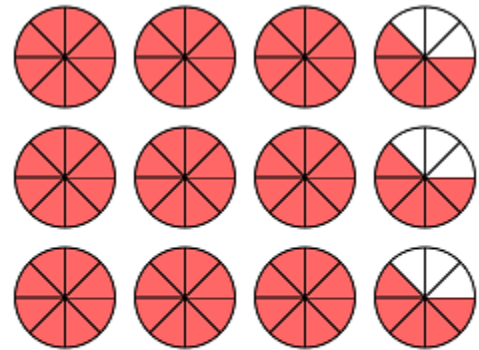
5.



$$\frac{5}{8} \times 3 = \frac{5}{8} \times \frac{3}{1} = \frac{15}{8} = 1 \frac{7}{8}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form and multiply.      Simplify.

6.

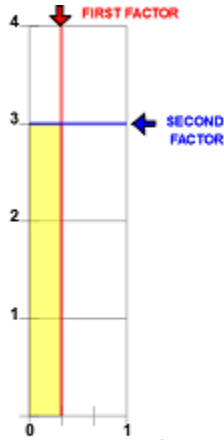


$$3 \frac{5}{8} \times 3 = \frac{29}{8} \times \frac{3}{1} = \frac{87}{8} = 10 \frac{7}{8}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form and multiply.      Simplify.

## 6. Multiply Fractions with Lines

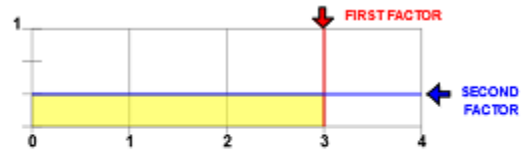
1.



$$\frac{1}{3} \times 3 = \frac{1}{\cancel{3}} \times \frac{\cancel{3}}{1} = \frac{1}{1} = 1$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply. Simplify.

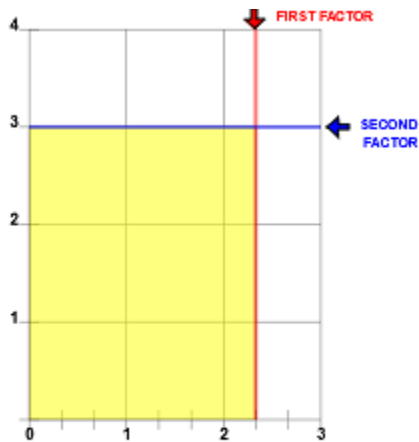
2.



$$3 \times \frac{1}{3} = \frac{\cancel{3}}{1} \times \frac{1}{\cancel{3}} = \frac{1}{1} = 1$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply. Simplify.

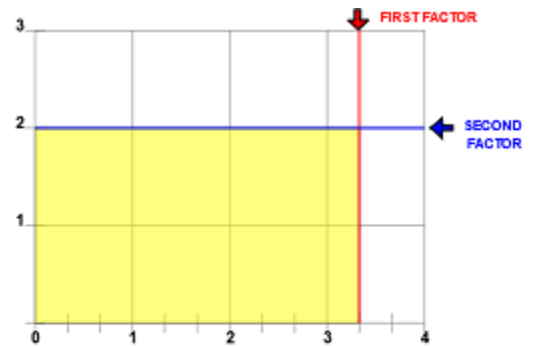
3.



$$2\frac{1}{3} \times 3 = \frac{7}{\cancel{3}} \times \frac{\cancel{3}}{1} = \frac{7}{1} = 7$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply. Simplify.

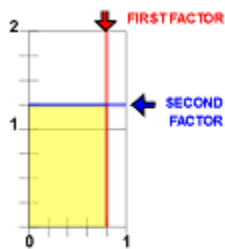
4.



$$3\frac{1}{3} \times 2 = \frac{10}{\cancel{3}} \times \frac{\cancel{2}}{1} = \frac{20}{3} = 6\frac{2}{3}$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form and multiply. Simplify.

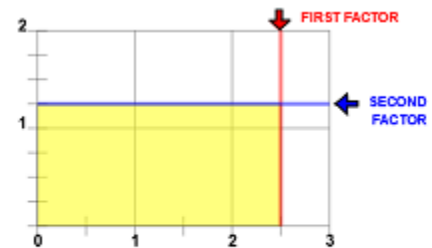
5.



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

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply. Simplify.

6.

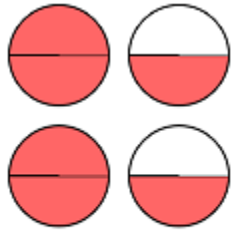


$$2\frac{1}{2} \times 1\frac{1}{4} = \frac{5}{\cancel{2}} \times \frac{\cancel{5}}{\cancel{4}} = \frac{25}{8} = 3\frac{1}{8}$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form and multiply. Simplify.

# 7. Multiply With Circles and Lines

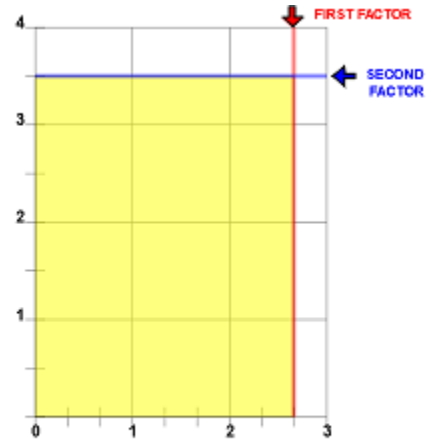
1.



$$1 \frac{1}{2} \times 2 = \frac{3}{1} \times \frac{2}{1} = \frac{6}{1} = 6$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

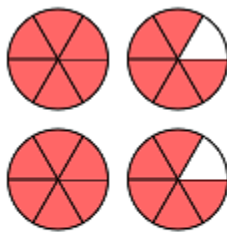
2.



$$2 \frac{2}{3} \times 3 \frac{1}{2} = \frac{8}{3} \times \frac{7}{2} = \frac{56}{6} = 9 \frac{1}{3}$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply.      Simplify.

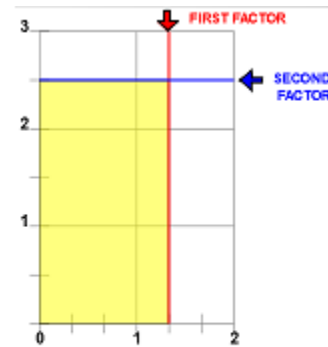
3.



$$1 \frac{5}{6} \times 2 = \frac{11}{3} \times \frac{2}{1} = \frac{22}{3} = 7 \frac{2}{3}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

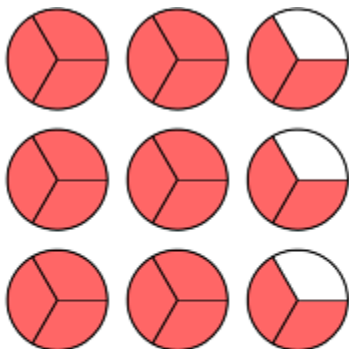
4.



$$1 \frac{1}{3} \times 2 \frac{1}{2} = \frac{4}{3} \times \frac{5}{2} = \frac{20}{6} = 3 \frac{1}{3}$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply.      Simplify.

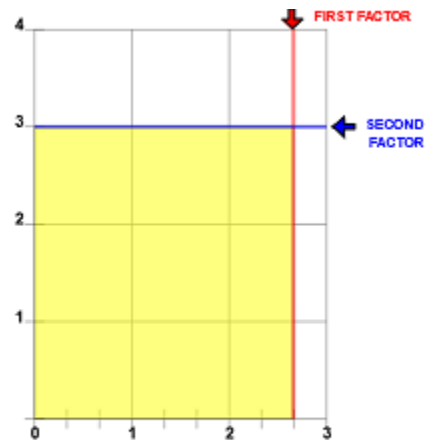
5.



$$2 \frac{2}{3} \times 3 = \frac{8}{3} \times \frac{3}{1} = 8$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

6.

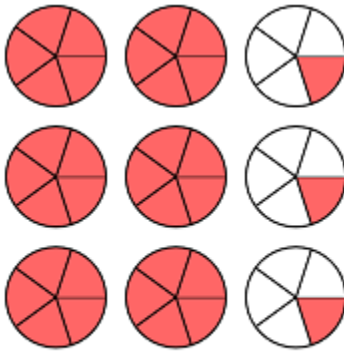


$$2 \frac{2}{3} \times 3 = \frac{8}{3} \times \frac{3}{1} = 8$$

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply.      Simplify.

## 8. Multiply With Circles and Lines

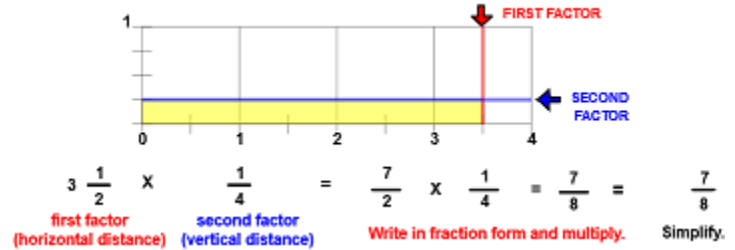
1.



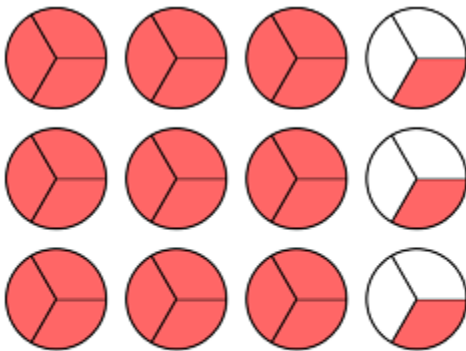
$$3 \frac{1}{5} \times 3 = \frac{11}{5} \times \frac{3}{1} = \frac{33}{5} = 6 \frac{3}{5}$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form and multiply.      Simplify.

2.



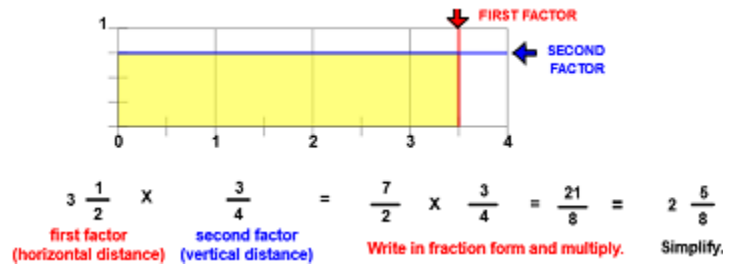
3.



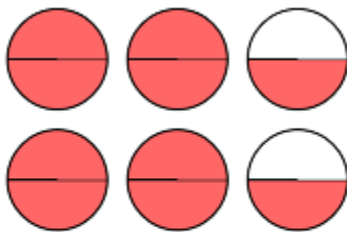
$$3 \frac{1}{3} \times 3 = \frac{10}{3} \times \frac{3}{1} = \frac{10}{1} = 10$$

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

4.



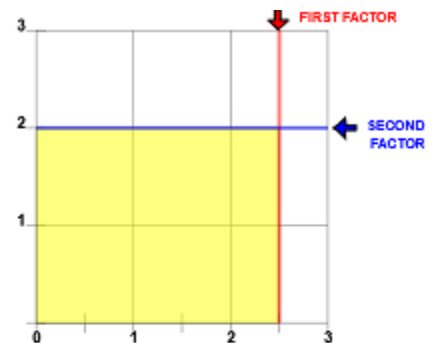
5.



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

first factor (number in each row)      second factor (number of rows)      Write in fraction form, cancel, and multiply.      Simplify.

6.



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

first factor (horizontal distance)      second factor (vertical distance)      Write in fraction form, cancel, and multiply.      Simplify.

## 9. Multiply Practice

1.  $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$

2.  $\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$

3.  $1 \frac{1}{2} \times \frac{1}{2} = \frac{3}{2} \times \frac{1}{2} = \frac{3}{4}$

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

5.  $1 \frac{1}{2} \times 1 \frac{1}{2} = \frac{3}{2} \times \frac{3}{2} = \frac{9}{4} = 2 \frac{1}{4}$

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

7.  $1 \frac{1}{2} \times 2 \frac{1}{2} = \frac{3}{2} \times \frac{5}{2} = \frac{15}{4} = 3 \frac{3}{4}$

8.  $2 \frac{2}{3} \times 3 \frac{1}{2} = \frac{8}{3} \times \frac{7}{2} = \frac{56}{6} = 9 \frac{1}{3}$

9.  $1 \frac{1}{3} \times 3 \frac{1}{2} = \frac{4}{3} \times \frac{7}{2} = \frac{28}{6} = 4 \frac{2}{3}$

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