Multiply Fractions Answers

1. Multiply Fractions with Circles

1.

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

2.

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

3.

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

4.

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

5.

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

6.

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

7.

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

8.

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

9.

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

2. Multiply Fractions with Lines

1.

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

2.

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

3.

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

4.

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

5.

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

6.

$\frac{3}{4}$ X 2 = $1\frac{1}{2}$
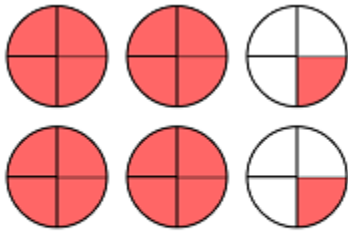
7.

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

8.

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

9.

$2\frac{3}{5}$ X $1\frac{1}{2}$ = $3\frac{9}{10}$
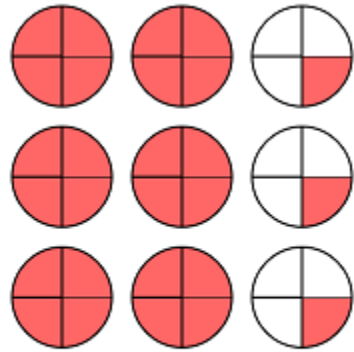
3. Multiply Fractions with Circles

1.

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

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

2.

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

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

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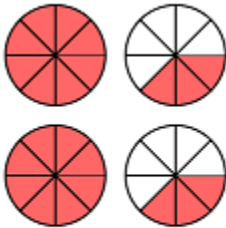
$$1\frac{3}{8} \quad \times \quad 2 \quad = \quad \frac{11}{\cancel{8}} \times \frac{\cancel{2}}{1} = \frac{11}{4} = 2\frac{3}{4}$$

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

4.

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

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

5.

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

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

6.

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

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

4. Multiply Fractions with Lines

1.

$$1\frac{1}{3} \quad X \quad 3 \quad = \quad \frac{4}{3} \quad X \quad \frac{3}{1} \quad = \quad \frac{4}{1} \quad = \quad 4$$

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

2.

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

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

3.

$$1\frac{1}{2} \quad X \quad 3 \quad = \quad \frac{3}{2} \quad X \quad \frac{3}{1} \quad = \quad \frac{9}{2} \quad = \quad 4\frac{1}{2}$$

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

4

$$2\frac{1}{2} \quad X \quad 2 \quad = \quad \frac{5}{2} \quad X \quad \frac{2}{1} \quad = \quad \frac{5}{1} \quad = \quad 5$$
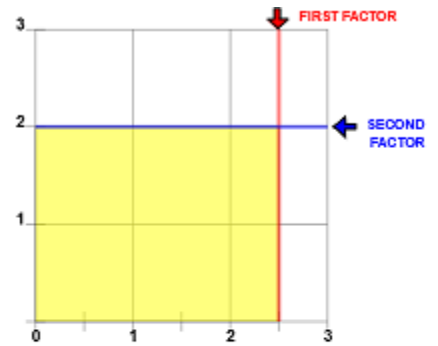
first factor   second factor
(horizontal distance)   (vertical distance)   Write in fraction form, cancel, and multiply. **Simplify.**

5.

$$\frac{2}{3} \quad X \quad 1\frac{1}{2} \quad = \quad \frac{2}{3} \quad X \quad \frac{3}{2} \quad = \quad \frac{1}{1} \quad = \quad 1$$

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

6.
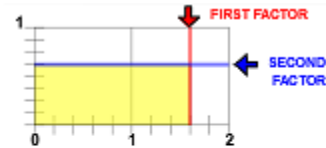
$$1\frac{3}{5} \quad X \quad \frac{5}{8} \quad = \quad \frac{8}{5} \quad X \quad \frac{5}{8} \quad = \quad \frac{1}{1} \quad = \quad 1$$

first factor   second factor
(horizontal distance)   (vertical distance)   Write in fraction form, cancel, and multiply. **Simplify.**
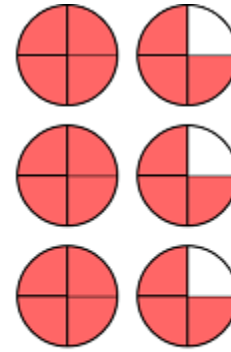
5. Multiply Fractions with Circles

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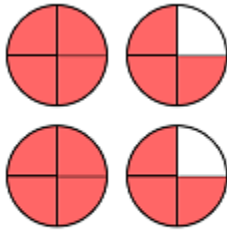
$$1\frac{3}{4} \quad \times \quad 2 \quad = \quad \frac{7}{\cancel{4}} \times \frac{\cancel{2}}{1} = \frac{7}{2} = 3\frac{1}{2}$$

first factor   second factor   Write in fraction form, cancel, and multiply.   Simplify.
(number in each row) (number of rows)
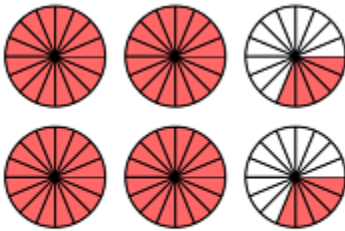
2.

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

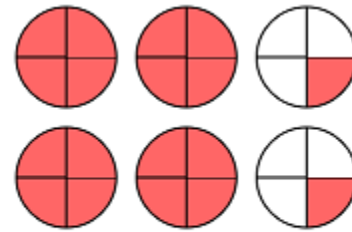first factor   second factor   Write in fraction form and multiply.   Simplify.
(number in each row) (number of rows)

3.

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

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

4.

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

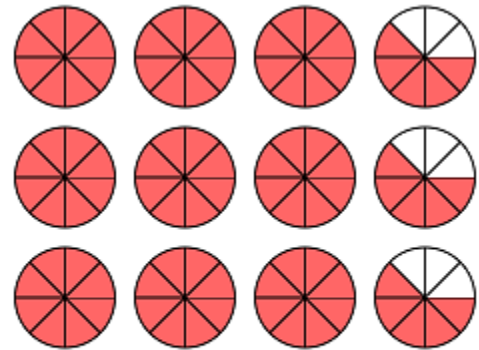first factor   second factor   Write in fraction form, cancel, and multiply.   Simplify.
(number in each row) (number of rows)

5.

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

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

6.

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

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

6. Multiply Fractions with Lines
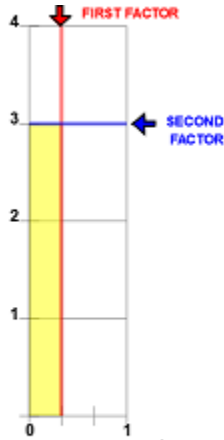
1.

FIRST FACTOR

SECOND FACTOR

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

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

2.

FIRST FACTOR
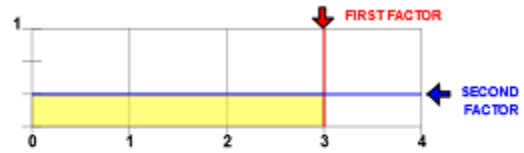
SECOND FACTOR

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

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

3.

FIRST FACTOR
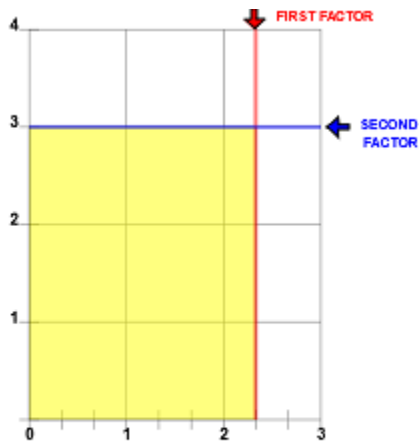
SECOND FACTOR

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

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

4.

FIRST FACTOR

SECOND FACTOR

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

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

5.

FIRST FACTOR

SECOND FACTOR

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

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

6.
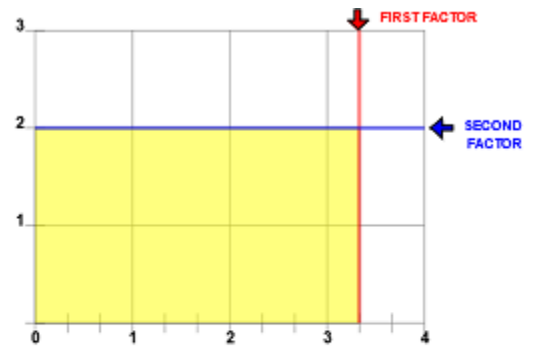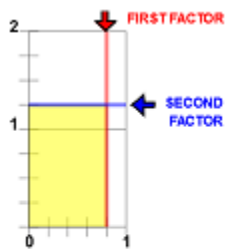
FIRST FACTOR

SECOND FACTOR

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

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

7. Multiply With Circles and Lines

1.
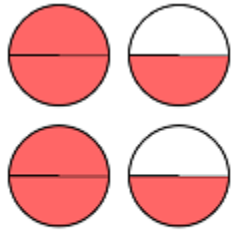
$$1\frac{1}{2} \quad \times \quad 2 \quad = \quad \frac{3}{2} \times \frac{\overset{1}{\cancel{2}}}{1} = \frac{3}{1} = 3$$

first factor (number in each row)   **second factor** (number of rows)   Write in fraction form, cancel, and multiply.   Simplify.
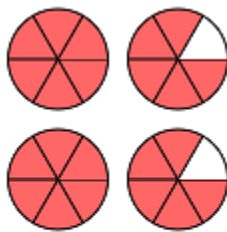
2.
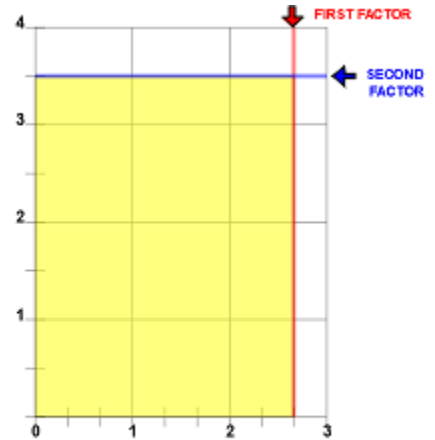
$$2\frac{2}{3} \quad \times \quad 3\frac{1}{2} \quad = \quad \frac{\overset{4}{\cancel{8}}}{3} \times \frac{7}{\underset{1}{\cancel{2}}} = \frac{28}{3} = 9\frac{1}{3}$$

first factor (horizontal distance)   **second factor** (vertical distance)   Write in fraction form, cancel, and multiply. Simplify.
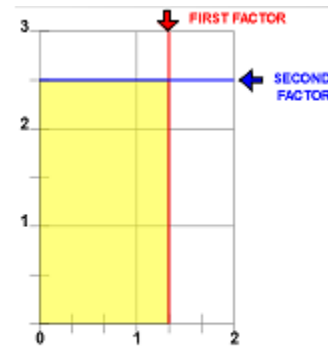
3.

$$1\frac{5}{6} \quad \times \quad 2 \quad = \quad \frac{11}{\cancel{6}} \times \frac{\overset{1}{\cancel{2}}}{1} = \frac{11}{3} = 3\frac{2}{3}$$

first factor (number in each row)   **second factor** (number of rows)   Write in fraction form, cancel, and multiply.   Simplify.
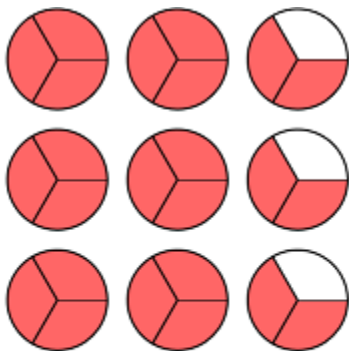
4.

$$1\frac{1}{3} \quad \times \quad 2\frac{1}{2} \quad = \quad \frac{\cancel{4}}{3} \times \frac{5}{\cancel{2}} = \frac{10}{3} = 3\frac{1}{3}$$

first factor (horizontal distance)   **second factor** (vertical distance)   Write in fraction form, cancel, and multiply. Simplify.
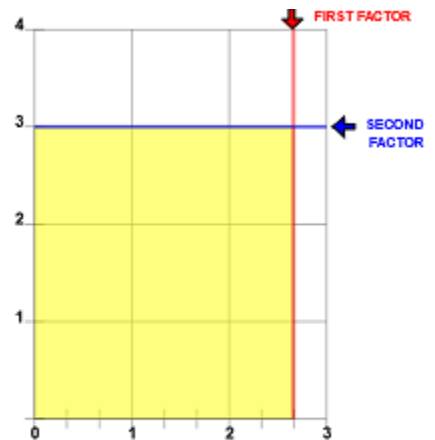
5.

$$2\frac{2}{3} \quad \times \quad 3 \quad = \quad \frac{8}{\cancel{3}} \times \frac{\overset{1}{\cancel{3}}}{1} = \frac{8}{1} = 8$$

first factor (number in each row)   **second factor** (number of rows)   Write in fraction form, cancel, and multiply.   Simplify
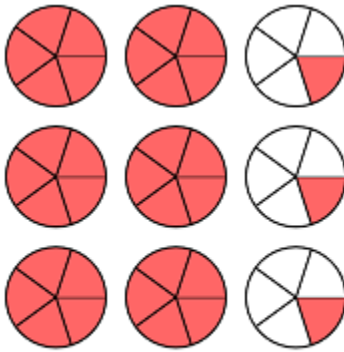
6.

$$2\frac{2}{3} \quad \times \quad 3 \quad = \quad \frac{8}{\cancel{3}} \times \frac{\overset{1}{\cancel{3}}}{1} = \frac{8}{1} = 8$$

first factor (horizontal distance)   **second factor** (vertical distance)   Write in fraction form, cancel, and multiply. Simplify.
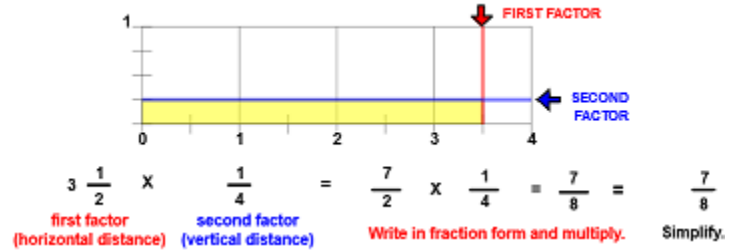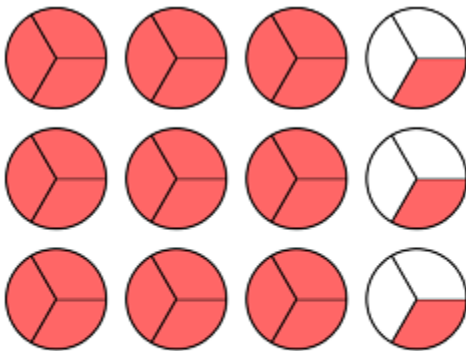
8. Multiply With Circles and Lines

1.

$$2 \frac{1}{5} \quad X \quad 3 \quad = \quad \frac{11}{5} \quad X \quad \frac{3}{1} \quad = \quad \frac{33}{5} \quad = \quad 6 \frac{3}{5}$$

first factor
(number in each row)

second factor
(number of rows)

Write in fraction form and multiply.   Simplify.

2.

FIRST FACTOR

SECOND FACTOR

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

first factor
(horizontal distance)

second factor
(vertical distance)

Write in fraction form and multiply.   Simplify.

3.

$$3 \frac{1}{3} \quad X \quad 3 \quad = \quad \frac{10}{3} \quad X \quad \frac{3}{1} \quad = \quad \frac{10}{1} \quad = \quad 10$$

first factor
(number in each row)

second factor
(number of rows)

Write in fraction form, cancel, and multiply.   Simplify.

4.

FIRST FACTOR

SECOND FACTOR

$$3 \frac{1}{2} \quad X \quad \frac{3}{4} \quad = \quad \frac{7}{2} \quad X \quad \frac{3}{4} \quad = \quad \frac{21}{8} \quad = \quad 2 \frac{5}{8}$$

first factor
(horizontal distance)

second factor
(vertical distance)

Write in fraction form and multiply.   Simplify.

5.

$$2 \frac{1}{2} \quad X \quad 2 \quad = \quad \frac{5}{2} \quad X \quad \frac{2}{1} \quad = \quad \frac{5}{1} \quad = \quad 5$$

first factor
(number in each row)

second factor
(number of rows)

Write in fraction form, cancel, and multiply.   Simplify.

6.

FIRST FACTOR

SECOND FACTOR

$$2 \frac{1}{2} \quad X \quad 2 \quad = \quad \frac{5}{2} \quad X \quad \frac{2}{1} \quad = \quad \frac{5}{1} \quad = \quad 5$$

first factor
(horizontal distance)

second factor
(vertical distance)

Write in fraction form, cancel, and multiply. Simplify

9. Multiply Practice

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

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

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

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

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

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

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

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

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

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