

## 6 Multiplying Fractions by Natural Numbers

EVALUATED



### Skill Builder

- 1** Multiply the following. Express each product as an improper fraction.

a.  $8 \times \frac{3}{7} =$  \_\_\_\_\_

b.  $16 \times \frac{5}{8} =$  \_\_\_\_\_

c.  $4 \times \frac{7}{8} =$  \_\_\_\_\_

- 2** Multiply the following. Express each product as an improper fraction.

a.  $9 \times \frac{2}{3} =$  \_\_\_\_\_

b.  $6 \times \frac{4}{5} =$  \_\_\_\_\_

c.  $14 \times \frac{5}{9} =$  \_\_\_\_\_

- 3** Convert each improper fraction to a mixed number.

a.  $\frac{39}{6}$  \_\_\_\_\_

b.  $\frac{36}{16}$  \_\_\_\_\_

c.  $\frac{68}{12}$  \_\_\_\_\_

- 4** Convert each improper fraction to a mixed number.

a.  $\frac{27}{8}$  \_\_\_\_\_

b.  $\frac{44}{12}$  \_\_\_\_\_

c.  $\frac{52}{14}$  \_\_\_\_\_

- 5** Multiply each fraction by the natural number, then express the product as a mixed number.

a.  $6 \times \frac{5}{9} =$  \_\_\_\_\_

b.  $8 \times \frac{4}{5} =$  \_\_\_\_\_

- 6** Multiply each fraction by the natural number, then express the product as a mixed number.

a.  $12 \times \frac{3}{8} =$  \_\_\_\_\_

b.  $7 \times \frac{5}{6} =$  \_\_\_\_\_

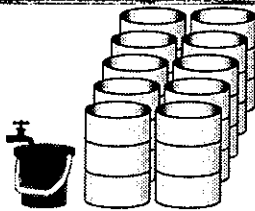
## Skill Builder

- 7** A recipe for two dozen cookies calls for  $\frac{2}{3}$  cups of sugar. If a cook wants to make eight dozen cookies, how many cups of sugar will she need? Express the answer as a mixed number.



### My Calculations

- 8** Each bucket full of water fills  $\frac{3}{8}$  of a barrel. If Tyler pours 25 buckets full of water into barrels, how many barrels can he fill? Express the answer as a mixed number.



### My Calculations

- 9** Three-fifths of the top 100 songs were sung by vocalists. The rest were by groups. Two-fifths of the songs by vocalists were by female singers. How many of the top 100 songs were by female vocalists?

### My Calculations

- 10** One-half of the NHL players were born in Canada. Of those one-fifteenth were born in Manitoba. If there are 690 active players in the NHL, how many were born in Manitoba?

### My Calculations

## 7 Multiplying Fractions

EVALUATED



### Skill Builder

- 1** Calculate the following multiplication and reduce the result.

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

My Calculations

- 2** Calculate the following multiplication and reduce the result.

$$\frac{7}{12} \times \frac{3}{14} = ?$$

My Calculations

- 3** Calculate the following multiplication and write the result as a reduced Mixed Fraction.

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

My Calculations

- 4** Calculate the following multiplication and write the result as a reduced Mixed Fraction.

$$5 \times \frac{17}{20} = ?$$

My Calculations

- 5** Calculate the following multiplication and write the result as a reduced Mixed Fraction.

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

My Calculations

- 6** Calculate the following multiplication and write the result as a reduced Mixed Fraction.

$$2\frac{3}{5} \times 4\frac{5}{13} = ?$$

My Calculations

## Skill Builder

- 7** Calculate the following multiplication and reduce the result.

$$\frac{9}{16} \times \frac{2}{3} \times \frac{8}{15} = ?$$

My Calculations

- 9** Calculate the following multiplication and write the result as a reduced Mixed Fraction.

$$\frac{3}{5} \times 10 \times \frac{11}{12} = ?$$

My Calculations

- 8** Calculate the following multiplication and reduce the result.

$$\frac{5}{8} \times \frac{12}{25} \times \frac{5}{6} = ?$$

My Calculations

- 10** Calculate the following multiplication and write the result as a reduced Mixed Fraction.

$$8 \times \frac{15}{16} \times \frac{3}{10} = ?$$

My Calculations

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

---

### Multiplying Fractions

1 )  $\frac{16}{18} \times \frac{1}{9} =$

2 )  $\frac{1}{8} \times \frac{1}{18} =$

3 )  $\frac{5}{9} \times \frac{3}{5} =$

4 )  $\frac{3}{12} \times \frac{3}{9} =$

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

6 )  $\frac{2}{5} \times \frac{1}{9} =$

7 )  $\frac{6}{18} \times \frac{3}{12} =$

8 )  $\frac{1}{2} \times \frac{1}{12} =$

9 )  $\frac{3}{15} \times \frac{7}{10} =$

10 )  $\frac{4}{18} \times \frac{8}{16} =$

## 8 Dividing Fractions **EVALUATED**



### Skill Builder

- 1** Calculate the following division and reduce the result.

$$\frac{6}{7} \div \frac{3}{2} = ?$$

**My Calculations**

- 2** Calculate the following division and reduce the result.

$$\frac{2}{15} \div \frac{3}{10} = ?$$

**My Calculations**

- 3** Calculate the following division and reduce the result.

$$\frac{9}{20} \div 6 = ?$$

**My Calculations**

- 4** Calculate the following division and write the result as a reduced mixed fraction.

$$8 \div \frac{5}{9} = ?$$

**My Calculations**

- 5** Calculate the following division and write the result as a reduced mixed fraction.

$$5\frac{1}{4} \div 3\frac{1}{2} = ?$$

**My Calculations**

- 6** Calculate the following division and write the result as a reduced mixed fraction.

$$11\frac{2}{3} \div 4\frac{5}{6} = ?$$

**My Calculations**

## Skill Builder

- 7** Perform the following calculation and reduce the result.

$$\frac{5}{24} \div \frac{3}{8} \div \frac{15}{27} = ?$$

My Calculations

- 8** Perform the following calculation and reduce the result.

$$\frac{5}{14} \div \frac{10}{21} \div \frac{3}{4} = ?$$

My Calculations

- 9** Perform the following calculation and reduce the result.

$$6\frac{1}{4} \div 5 \div \frac{4}{9} = ?$$

My Calculations

- 10** Perform the following calculation and reduce the result.

$$4 \div \frac{12}{25} \div 5 = ?$$

My Calculations

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

---

### Dividing Fractions

1 )  $\frac{6}{7} \div \frac{1}{3} =$

2 )  $\frac{1}{2} \div \frac{12}{15} =$

3 )  $\frac{1}{3} \div \frac{4}{8} =$

4 )  $\frac{7}{8} \div \frac{4}{5} =$

5 )  $\frac{16}{18} \div \frac{2}{12} =$

6 )  $\frac{1}{6} \div \frac{7}{9} =$

7 )  $\frac{2}{6} \div \frac{1}{3} =$

8 )  $\frac{3}{6} \div \frac{1}{4} =$

9 )  $\frac{3}{8} \div \frac{7}{18} =$

10 )  $\frac{8}{20} \div \frac{3}{5} =$

