

Lesson 8-1: Use Models to Multiply a Whole Number by a fraction Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can multiply a whole number by a fraction.

Sasha walked $\frac{1}{2}$ mile every day for 5 days. How far did she walk in all? Use the number line to help you.



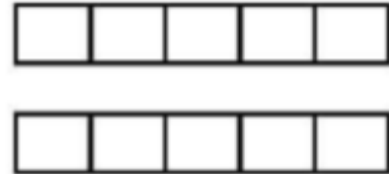
Lesson 8-1: Independent Practice

Find each product.

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



2) $2 \times \frac{3}{5}$



3) $35 \times \frac{2}{5}$

4) $7 \times \frac{5}{12}$

5) $9 \times \frac{2}{3}$

6) $64 \times \frac{3}{8}$

7) $900 \times \frac{2}{3}$

8) $84 \times \frac{1}{4}$

Lesson 8-2: Use Models to Multiply a Whole Number by a fraction Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can multiply a whole number by a fraction.

Brandon has 6 eggs. He needs $\frac{2}{3}$ of the eggs to make an omelet. How many eggs does he need?

Lesson 8- 2: Independent Practice

Find each product.

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



2) $\frac{3}{8} \times 4$



3) $\frac{2}{3} \times 15$

4) $\frac{11}{12} \times 6$

5) $\frac{5}{8} \times 16$

6) $\frac{2}{3}$ of 8

7) $\frac{2}{9} \times 3$

8) $\frac{4}{7} \times 21$

Lesson 8- 3: Multiply Fractions and Whole Numbers Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can multiply fractions and whole number.

Julie has 10 yards of ribbon. She divides the ribbon into 3 equal pieces and uses 2 of the pieces on gifts. How much ribbon does she use?

Lesson 8- 3: Independent Practice

Find each product.

1) $\frac{3}{8} \times 4 = \frac{\square \times \square}{\square} = \frac{\square}{\square} = \square \frac{\square}{\square} = \square \frac{\square}{\square}$ 2) $8 \times \frac{5}{6} = \frac{\square \times \square}{\square} = \frac{\square}{\square} = \square \frac{\square}{\square} = \square \frac{\square}{\square}$

3) $\frac{4}{5} \times 500$

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

5) $17 \times \frac{6}{8}$

6) $\frac{7}{8} \times 320$

7) $28 \times \frac{7}{12}$

8) $\frac{2}{3} \times 1,287$

Lesson 8- 4: Use Models to Multiply Two Fractions Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can use models to multiply two fractions.

The art teacher gave each student half of a sheet of paper. Then she asked the students to color one fourth of their pieces of paper. What part of the original sheet did the students color?

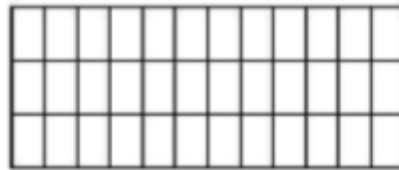
Lesson 8- 4: Independent Practice

Find each product.

1) $\frac{1}{3} \times \frac{5}{6}$



2) $\frac{2}{3} \times \frac{1}{12}$



3) $\frac{7}{8} \times \frac{1}{2}$

4) $\frac{2}{5} \times \frac{1}{12}$

5) $\frac{5}{7}$ of $\frac{7}{9}$

6) $\frac{1}{4} \times \frac{7}{8}$

7) $\frac{5}{6}$ of $\frac{9}{10}$

8) $\frac{1}{4} \times \frac{1}{8}$

Lesson 8- 5: Multiply Two Fractions Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can multiply two fractions

On Dan's eReader, $\frac{2}{3}$ of the books are fiction. Of the fiction books, $\frac{4}{5}$ are mysteries. What fraction of the books are both fictional mysteries?

Lesson 8- 5: Independent Practice

Find each product.

1) $\left(\frac{1}{6} + \frac{1}{6}\right) \times \frac{3}{4}$

2) $\left(\frac{3}{7} + \frac{2}{7}\right) \times \frac{2}{3}$

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

4) $\frac{1}{2}$ of $\frac{8}{9}$

5) $\frac{5}{6} \times \frac{1}{3}$

6) $\frac{9}{10} \times \frac{1}{2}$

7) $\frac{2}{3} \times \frac{7}{8}$

8) $\frac{5}{6}$ of $\frac{11}{12}$

Lesson 8- 6: Area of a Rectangle Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can find the area of a rectangle.

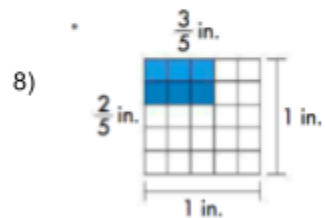
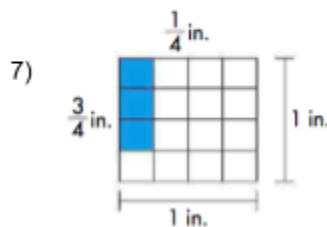
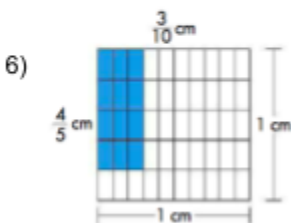
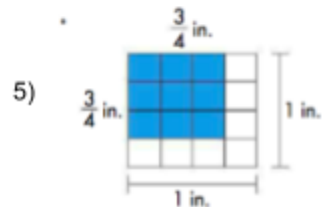
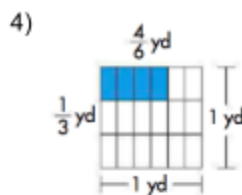
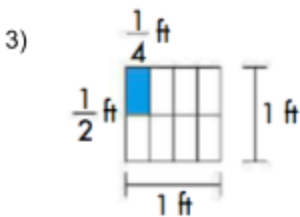
A rectangular poster is $\frac{1}{4}$ yard wide and $\frac{3}{4}$ yard tall. What is its area?

Lesson 8- 6: Independent Practice

Find each product.

- 1) Find the area of a rectangle with side lengths $\frac{5}{3}$ feet and $\frac{3}{4}$ foot.

- 2) Find the area of a square with side lengths of $\frac{3}{8}$ inch.



Lesson 8-7: Multiply Mixed Numbers Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can multiply mixed numbers.

Look at the ingredients needed to make Josie's special pancakes. How much pancake mix and milk will you need if you want to double the recipe? To triple the recipe?

Josie's Pancake Recipe

$2\frac{1}{4}$ cups pancake mix

1 egg

$1\frac{2}{3}$ cups milk

$\frac{3}{4}$ teaspoon vanilla

Lesson 8-7: Independent Practice

Find each product.

1) $\left(\frac{1}{6} + 2\frac{2}{3}\right) \times \left(1\frac{1}{4} - \frac{1}{2}\right)$

2) $\left(2\frac{4}{9} + \frac{1}{3}\right) \times \left(1\frac{1}{4} - \frac{1}{8}\right)$

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

4) $1\frac{1}{8} \times 3\frac{1}{3}$

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

6) $3\frac{1}{4} \times 6$

7) $5\frac{1}{3} \times 3$

8) $2\frac{3}{8} \times 4$

Lesson 8- 8: Multiplication as Scaling Solve and Share

Content Standard: 5.NF.B.4a, 5.NF.B.6

I Can Statement: I can use multiplication to scale or resize something.

Without multiplying, circle the problem in each set with the greatest product and underline the problem with the least product.

Set 1

a. $\frac{1}{2} \times 2$

b. $\frac{3}{3} \times 2$

c. $\frac{4}{4} \times \frac{5}{6}$

Set 2

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

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

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

Set 3

a. $\frac{3}{4} \times \frac{6}{6}$

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

c. $\frac{4}{4} \times \frac{5}{6}$

Lesson 8- 8: Independent Practice

Find each product.

Without multiplying or dividing, decide which symbols belongs in the box: $>$, $<$, $=$.

1. $2\frac{1}{2} \times 1\frac{2}{3} \square 1\frac{2}{3}$

2. $3\frac{3}{5} \times \frac{2}{2} \square 3\frac{3}{5}$

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

Without multiplying, order the following products from least to greatest.

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

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

Without multiplying, order the following products from greatest to least.

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

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

**Lesson 8- :
Solve and Share**

Content Standard: 5.NF.B.4a, 5.NF.B.6
I Can Statement: I can

Lesson 8- : Independent Practice
Find each product.

1)

2)

3)

4)

5)

6)

7)

8)

**Lesson 8- :
Solve and Share**

Content Standard: 5.NF.B.4a, 5.NF.B.6
I Can Statement: I can

Lesson 8- : Independent Practice

Find each product.

1)

2)

3)

4)

5)

6)

7)

8)