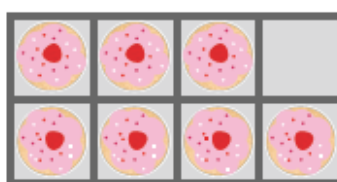**LESSON 3 Subtracting Fractions**
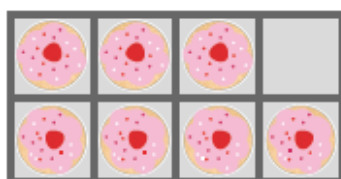
Subtracting Fractions

In Focus

What fraction of the box of cupcakes remains after 5 cupcakes are eaten?

Let's Learn

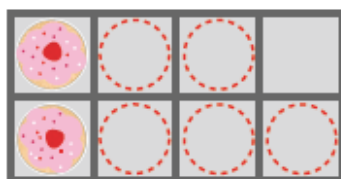**1** Each piece is 1 eighth of the box of cupcakes.

7 eighths

This is $\frac{7}{8}$ of a box of cupcakes.

5 eighths are eaten

7 eighths − 5 eighths = 2 eighths

$$\frac{7}{8} - \frac{5}{8} = \frac{2}{8}$$

$\frac{2}{8} = $

$\frac{1}{4}$ of the box of cupcakes remains.

2 Subtract $\frac{3}{8}$ from $\frac{7}{8}$.

7 eighths – 3 eighths
= ☐ eighths

$$\frac{7}{8} - \frac{3}{8} = \frac{☐}{8}$$

Is the fraction in its simplest form?

3 $\frac{5}{8} - \frac{3}{8} = ☐$

$\frac{5}{8}$

subtract $\frac{3}{8}$

0 $\frac{1}{8}$ $\frac{2}{8}$ $\frac{3}{8}$ $\frac{4}{8}$ $\frac{5}{8}$ $\frac{6}{8}$ $\frac{7}{8}$ 1
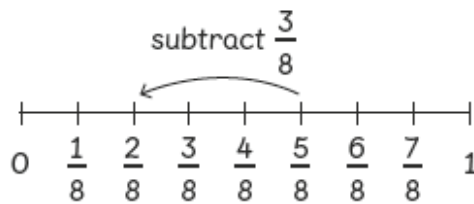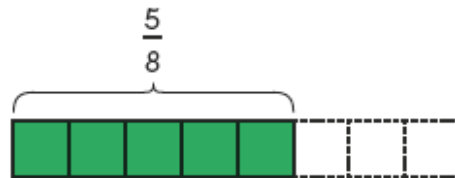
Guided Practice

Subtract.

1 $\frac{7}{10} - \frac{4}{10} = ☐$

2 $\frac{5}{6} - \frac{3}{6} = ☐$

3 $\frac{7}{8} - \frac{1}{8} = ☐$

Name: ——————— Class: ——— Date:————

Worksheet 19

Subtracting Fractions

1 Subtract and fill in the blanks. Write each fraction in its simplest form. Cross out the bars to help you.

(a) $\dfrac{6}{10} - \dfrac{2}{10} = \boxed{}$

$= \boxed{}$

(b) $\dfrac{7}{9} - \dfrac{4}{9} = \boxed{}$

$= \boxed{}$

2 Subtract and write each fraction in its simplest form.

(a) $\dfrac{4}{5} - \dfrac{1}{5} = \boxed{}$

(b) $\dfrac{6}{12} - \dfrac{1}{12} = \boxed{}$

(c) $\dfrac{3}{7} - \dfrac{2}{7} = \boxed{}$

(d) $\dfrac{9}{10} - \dfrac{4}{10} = \boxed{}$

MASTERY

1) Use the bar model to help subtract the fractions.

a)
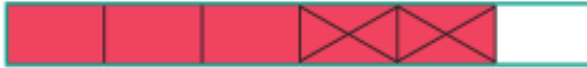
$$\frac{5}{6} - \frac{\square}{\square} = \frac{\square}{\square}$$

b)

$$\frac{7}{8} - \frac{\square}{\square} = \frac{\square}{\square}$$

2) Represent the number sentences as bar models to help you find the answers.

a)

$$\frac{4}{7} - \frac{2}{7} = \frac{\square}{\square}$$

b)

$$\frac{6}{9} - \frac{1}{9} = \frac{\square}{\square}$$

3) True or false? Prove it using a bar model.

a) three-sevenths subtract two-sevenths equals one-seventh

b) two-quarters subtract one-quarter equals one-half

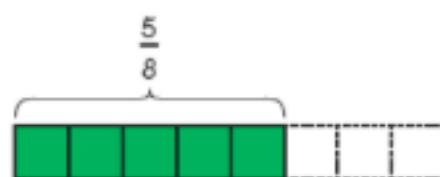**ANSWERS**

2 Subtract $\frac{3}{8}$ from $\frac{7}{8}$.

7 eighths – 3 eighths = **4** eighths

$$\frac{7}{8} - \frac{3}{8} = \frac{4}{8}$$

Is the fraction in its simplest form?

3 $\frac{5}{8} - \frac{3}{8} = \frac{2}{8}$

$\frac{5}{8}$

subtract $\frac{3}{8}$

0   $\frac{1}{8}$ $\frac{2}{8}$ $\frac{3}{8}$ $\frac{4}{8}$ $\frac{5}{8}$ $\frac{6}{8}$ $\frac{7}{8}$ 1
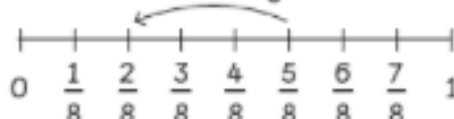
Guided Practice

Subtract.

1 $\frac{7}{10} - \frac{4}{10} = \frac{3}{10}$

2 $\frac{5}{6} - \frac{3}{6} = \frac{2}{6}$

3 $\frac{7}{8} - \frac{1}{8} = \frac{6}{8}$

Complete Worksheet **19** – Page **112**

Worksheet 19

Subtracting Fractions

1 Subtract and fill in the blanks. Write each fraction in its simplest form. Cross out the bars to help you.

(a) $\dfrac{6}{10} - \dfrac{2}{10} =$ **4/10**

$=$ **2/5**

(b) $\dfrac{7}{9} - \dfrac{4}{9} =$ **3/9**

$=$ **1/3**

2 Subtract and write each fraction in its simplest form.

(a) $\dfrac{4}{5} - \dfrac{1}{5} =$ **3/5**

(b) $\dfrac{6}{12} - \dfrac{1}{12} =$ **5/12**

(c) $\dfrac{3}{7} - \dfrac{2}{7} =$ **1/7**

(d) $\dfrac{9}{10} - \dfrac{4}{10} =$ **1/2**

1) **a)** $\dfrac{5}{6}$ − $\dfrac{2}{6}$ = $\dfrac{3}{6}$

b) $\dfrac{7}{8}$ − $\dfrac{3}{8}$ = $\dfrac{4}{8}$

2) **a)** $\dfrac{4}{7}$ − $\dfrac{2}{7}$ = $\dfrac{2}{7}$

b) $\dfrac{6}{9}$ − $\dfrac{1}{9}$ = $\dfrac{5}{9}$

3) **a)** True.

$\dfrac{3}{7} - \dfrac{2}{7} = \dfrac{1}{7}$

b) False.

$\dfrac{2}{4} - \dfrac{1}{4} = \dfrac{1}{4}$