Fractions: Skill 5 - 13C

Subtract Fractions and Mixed Numbers with Renaming

A part of a whole number can be renamed as a fraction.

Test question 13C: Subtract $2 - 1\frac{2}{3}$

Test Question 13C	Example
$2 - 1\frac{2}{3}$	$2\frac{1}{4} - 1\frac{2}{3}$
1. Rename 2 as $1\frac{3}{3}$ $\quad$ $\frac{3}{3} = 1$ so $1\frac{3}{3} = 2$	Use the LCD to write equivalent fractions. $\qquad 2\frac{3}{12} - 1\frac{8}{12}$
$2 - 1\frac{2}{3} = 1\frac{3}{3} - 1\frac{2}{3}$	Rename $2\frac{3}{12}$ as $1\frac{15}{12}$
2. Subtract. $\quad 1\frac{3}{3} - 1\frac{2}{3} = \frac{1}{3}$	$1\frac{15}{12} - 1\frac{8}{12} = \frac{7}{12}$

Another way is to use fraction bars.

$$2\frac{1}{4} - 1\frac{2}{3}$$

Use fraction bars to model the mixed number $2\frac{1}{4}$.

Next, change the fraction bars to show $2\frac{3}{12}$ using the LCD. (look at the 2nd line above under "Example")

Rename one whole bar as $\frac{12}{12}$

Subtract $1\frac{8}{12}$ (look at the 2nd line above under "Example")

The bars that you should remove are marked out.

$$1\frac{15}{12} - 1\frac{8}{12} = \frac{7}{12}$$

Fractions: Skill 5 - 13C

Subtract Fractions with Renaming

Directions: Subtract using fraction bars or paper and pencil. Write the answer in simplest form. Problem number 1 is done for you as an example.

1.

$$2\frac{1}{3}$$
$$-1\frac{4}{6}$$
$$\overline{\quad \frac{2}{3} \quad}$$

1. Use the LCD	$2\frac{2}{6} - 1\frac{4}{6} =$
2. Rename	$1\frac{8}{6} - 1\frac{4}{6} =$
3. Subtract and Simplify	$\frac{4}{6} = \frac{2}{3}$

2.

$$4\frac{1}{4}$$
$$-2\frac{3}{8}$$

3.

$$6\frac{3}{12}$$
$$-2\frac{2}{3}$$

4.

$$3\frac{3}{10}$$
$$-1\frac{3}{5}$$

5.

$$4\frac{2}{5}$$
$$-2\frac{2}{4}$$

6.

$$6\frac{1}{8}$$
$$-3\frac{5}{16}$$

7.

$$3\frac{2}{9}$$
$$-1\frac{2}{3}$$

8.

$$8\frac{3}{8}$$
$$-4\frac{1}{2}$$

9.

$$5\frac{1}{3}$$
$$-1\frac{1}{2}$$

10.

$$8\frac{2}{5}$$
$$-1\frac{1}{2}$$

11.

$$6\frac{2}{7}$$
$$-4\frac{7}{14}$$

12.

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

13.

$$9\frac{3}{16}$$
$$-4\frac{3}{8}$$

14.

$$6\frac{5}{12}$$
$$-3\frac{3}{4}$$

Answers: Skill 13C, Grade 5

1. $\dfrac{2}{3}$

2. $1\dfrac{7}{8}$

3. $3\dfrac{7}{12}$

4. $1\dfrac{7}{10}$

5. $1\dfrac{9}{10}$

6. $2\dfrac{13}{16}$

7. $1\dfrac{5}{9}$

8. $3\dfrac{7}{8}$

9. $3\dfrac{5}{6}$

10. $6\dfrac{9}{10}$

11. $1\dfrac{11}{14}$

12. $2\dfrac{2}{3}$

13. $4\dfrac{13}{16}$

14. $2\dfrac{2}{3}$