

# Modeling Addition of Fractions

NCTM Standards 1, 2, 6, 7, 8, 9, 10

1

$$1 \text{ sixth} + 3 \text{ sixths} = \underline{\hspace{2cm}} \text{ sixths}$$

2

$$4 \text{ sixths} + 1 \text{ sixth} = \underline{\hspace{2cm}} \text{ sixths}$$

3

$$4 \text{ sixths} + 2 \text{ sixths} = \underline{\hspace{2cm}} \text{ sixths}$$

4

$$3 \text{ sixths} + \underline{\hspace{2cm}} \text{ sixths} = 5 \text{ sixths}$$

5

$$\frac{1}{2} + \frac{1}{2} = \frac{\square}{\square}$$

6

$$\frac{2}{6} + \frac{\square}{6} = \frac{3}{6}$$

7

$$\frac{1}{6} + \frac{1}{6} = \frac{\square}{\square}$$

8

$$\frac{4}{6} + \frac{3}{6} = \frac{\square}{6}$$

9

$$4 \text{ sixths} - 2 \text{ sixths} = \underline{\hspace{2cm}} \text{ sixths}$$

10

$$5 \text{ sixths} - 1 \text{ sixth} = \underline{\hspace{2cm}} \text{ sixths}$$

11

$$6 \text{ sixths} - 3 \text{ sixths} = \underline{\hspace{2cm}} \text{ sixths}$$

12

$$8 \text{ sixths} - \underline{\hspace{2cm}} \text{ sixths} = 1 \text{ sixth}$$

13

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

14

$$\frac{2}{6} - \frac{0}{6} = \frac{2}{\square}$$

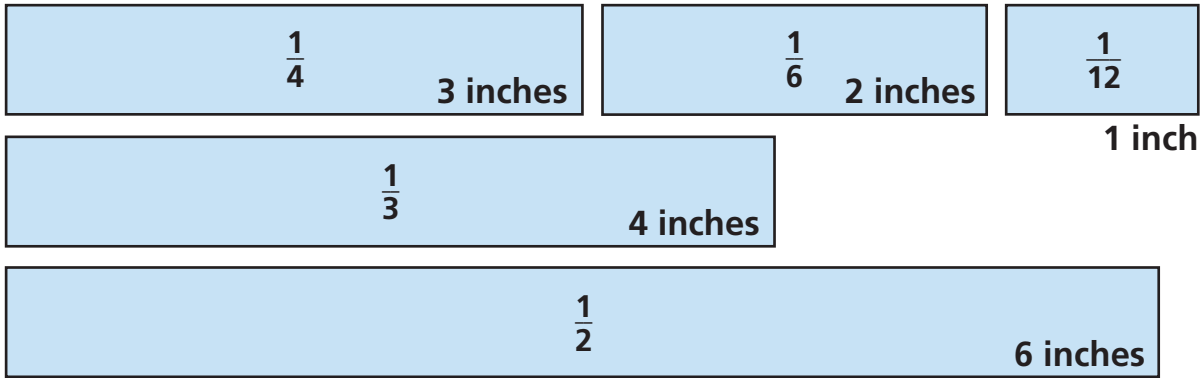
15

$$\frac{\square}{6} - \frac{1}{6} = \frac{3}{6}$$

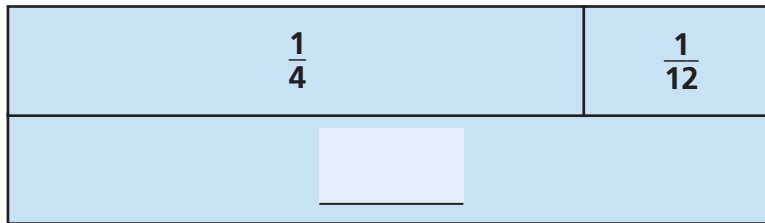
16

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

Use these fractional pieces of a foot to complete the number sentences below.

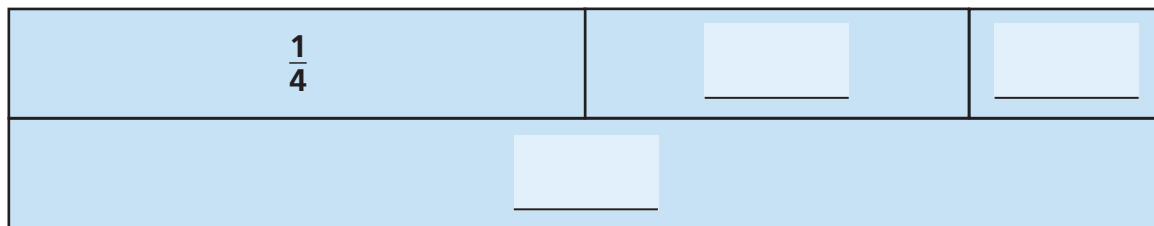


17



$$\frac{\boxed{1}}{\boxed{12}} + \frac{\boxed{1}}{\boxed{4}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

18



$$\frac{\boxed{1}}{\boxed{4}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} + \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

**19 Challenge** Count by  $\frac{2}{7}$  to fill in the missing numbers.

