

## UNIT 11 *Fractions and Percentages*

## Overhead Slides

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### **Overhead Slides**

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**OS 11.1***Percentages and Fractions*

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Convert each of the following percentages to its equivalent fraction, in its simplest form.

(a)  $14\% \equiv$

(b)  $45\% \equiv$

(c)  $60\% \equiv$

(d)  $23\% \equiv$

Convert each of the following fractions to the percentage equivalent.

(a)  $\frac{3}{4} \equiv$

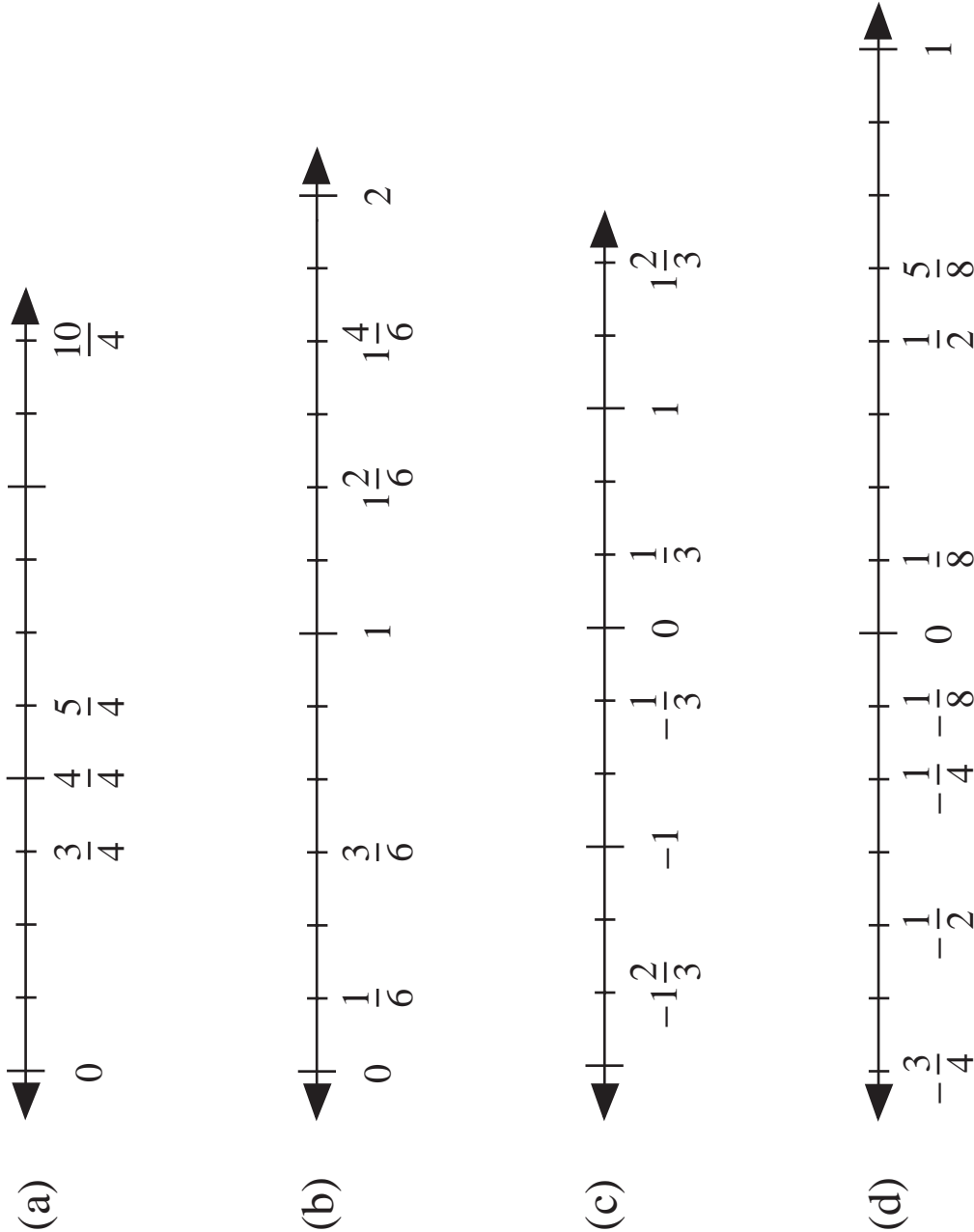
(b)  $\frac{7}{20} \equiv$

(c)  $\frac{26}{25} \equiv$

OS 11.2

Fraction Number Lines

Fill in each mark with the correct number.



### Equivalent Fractions 1

$\frac{0}{1}$											$\frac{1}{1}$
$\frac{0}{2}$					$\frac{1}{2}$						$\frac{2}{2}$
$\frac{0}{3}$			$\frac{1}{3}$				$\frac{2}{3}$				$\frac{3}{3}$
$\frac{0}{4}$		$\frac{1}{4}$			$\frac{2}{4}$			$\frac{3}{4}$			$\frac{4}{4}$
$\frac{0}{5}$		$\frac{1}{5}$		$\frac{2}{5}$		$\frac{3}{5}$		$\frac{4}{5}$			$\frac{5}{5}$
$\frac{0}{6}$		$\frac{1}{6}$	$\frac{2}{6}$		$\frac{3}{6}$		$\frac{4}{6}$		$\frac{5}{6}$		$\frac{6}{6}$
$\frac{0}{7}$		$\frac{1}{7}$	$\frac{2}{7}$	$\frac{3}{7}$		$\frac{4}{7}$		$\frac{5}{7}$	$\frac{6}{7}$		$\frac{7}{7}$
$\frac{0}{8}$	$\frac{1}{8}$	$\frac{2}{8}$	$\frac{3}{8}$		$\frac{4}{8}$	$\frac{5}{8}$		$\frac{6}{8}$	$\frac{7}{8}$		$\frac{8}{8}$
$\frac{0}{9}$	$\frac{1}{9}$	$\frac{2}{9}$	$\frac{3}{9}$	$\frac{4}{9}$	$\frac{5}{9}$	$\frac{6}{9}$	$\frac{7}{9}$	$\frac{8}{9}$			$\frac{9}{9}$
$\frac{0}{10}$	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	$\frac{10}{10}$	
$\frac{0}{11}$	$\frac{1}{11}$	$\frac{2}{11}$	$\frac{3}{11}$	$\frac{4}{11}$	$\frac{5}{11}$	$\frac{6}{11}$	$\frac{7}{11}$	$\frac{8}{11}$	$\frac{9}{11}$	$\frac{10}{11}$	$\frac{11}{11}$
$\frac{0}{12}$	$\frac{1}{12}$	$\frac{2}{12}$	$\frac{3}{12}$	$\frac{4}{12}$	$\frac{5}{12}$	$\frac{6}{12}$	$\frac{7}{12}$	$\frac{8}{12}$	$\frac{9}{12}$	$\frac{10}{12}$	$\frac{11}{12}$
$\frac{0}{12}$	$\frac{1}{12}$	$\frac{2}{12}$	$\frac{3}{12}$	$\frac{4}{12}$	$\frac{5}{12}$	$\frac{6}{12}$	$\frac{7}{12}$	$\frac{8}{12}$	$\frac{9}{12}$	$\frac{10}{12}$	$\frac{11}{12}$
$\frac{0}{12}$	$\frac{1}{12}$	$\frac{2}{12}$	$\frac{3}{12}$	$\frac{4}{12}$	$\frac{5}{12}$	$\frac{6}{12}$	$\frac{7}{12}$	$\frac{8}{12}$	$\frac{9}{12}$	$\frac{10}{12}$	$\frac{11}{12}$

**OS** 11.3, Slide 2*Equivalent Fractions 1*

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Look carefully at the **fraction chart** on Slide 1.

To find an equivalent fraction of  $\frac{3}{5}$ , you place a ruler vertically at  $\frac{3}{5}$ .

You will find that  $\frac{6}{10}$  lies on the same line.

So  $\frac{3}{5}$  and  $\frac{6}{10}$  are equivalent fractions.

Using a ruler, find all the equivalent fractions of each of the following from the chart.

(a)  $\frac{1}{2} =$

(b)  $\frac{2}{3} =$

(c)  $\frac{2}{6} =$

(d)  $\frac{1}{5} =$

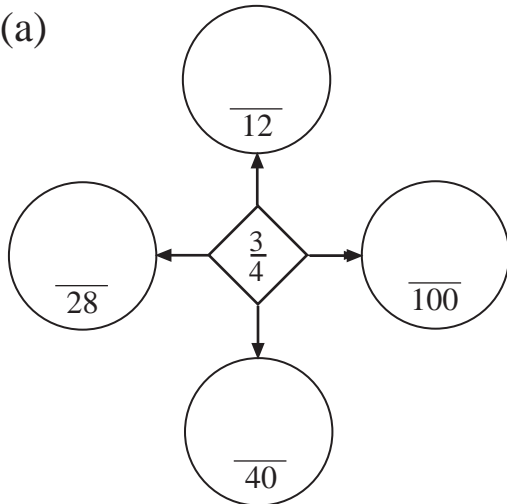
(e)  $\frac{3}{4} =$

## OS 11.4

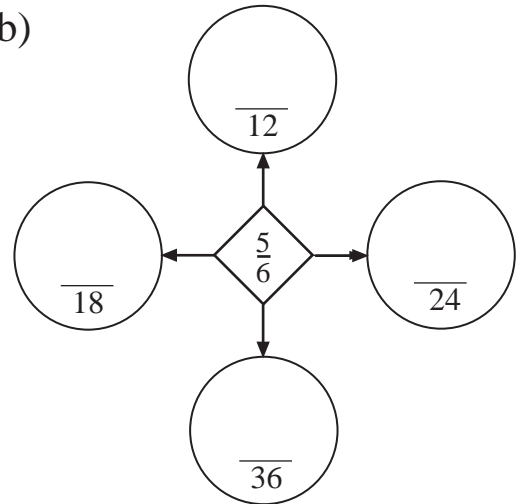
*Equivalent Fractions 2*

Complete each of the following so that the fractions in  $\bigcirc$  are equivalent to those in  $\diamond$ .

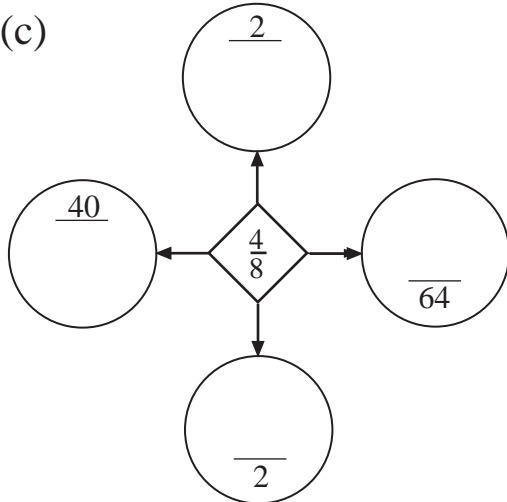
(a)



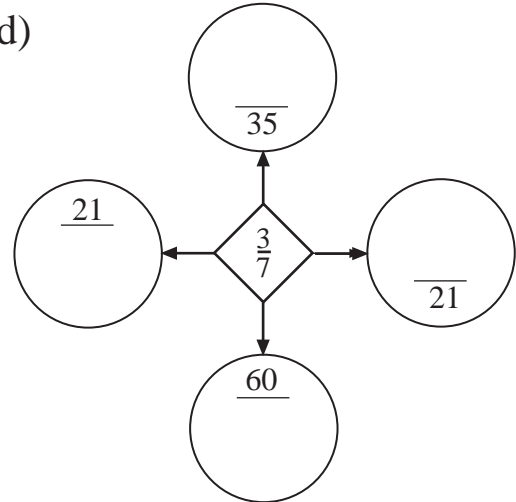
(b)



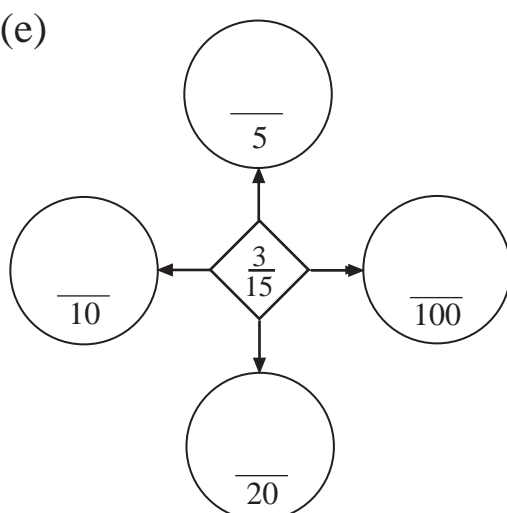
(c)



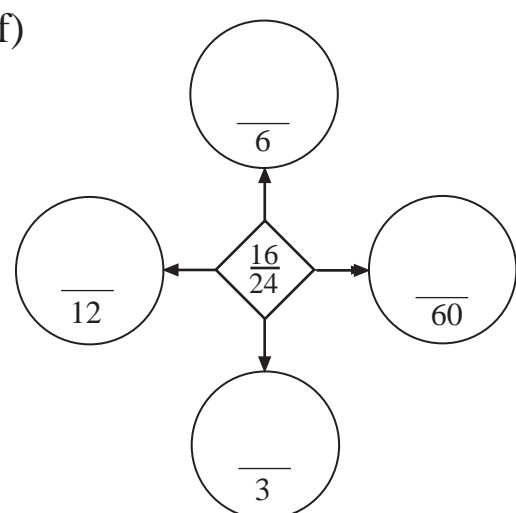
(d)



(e)



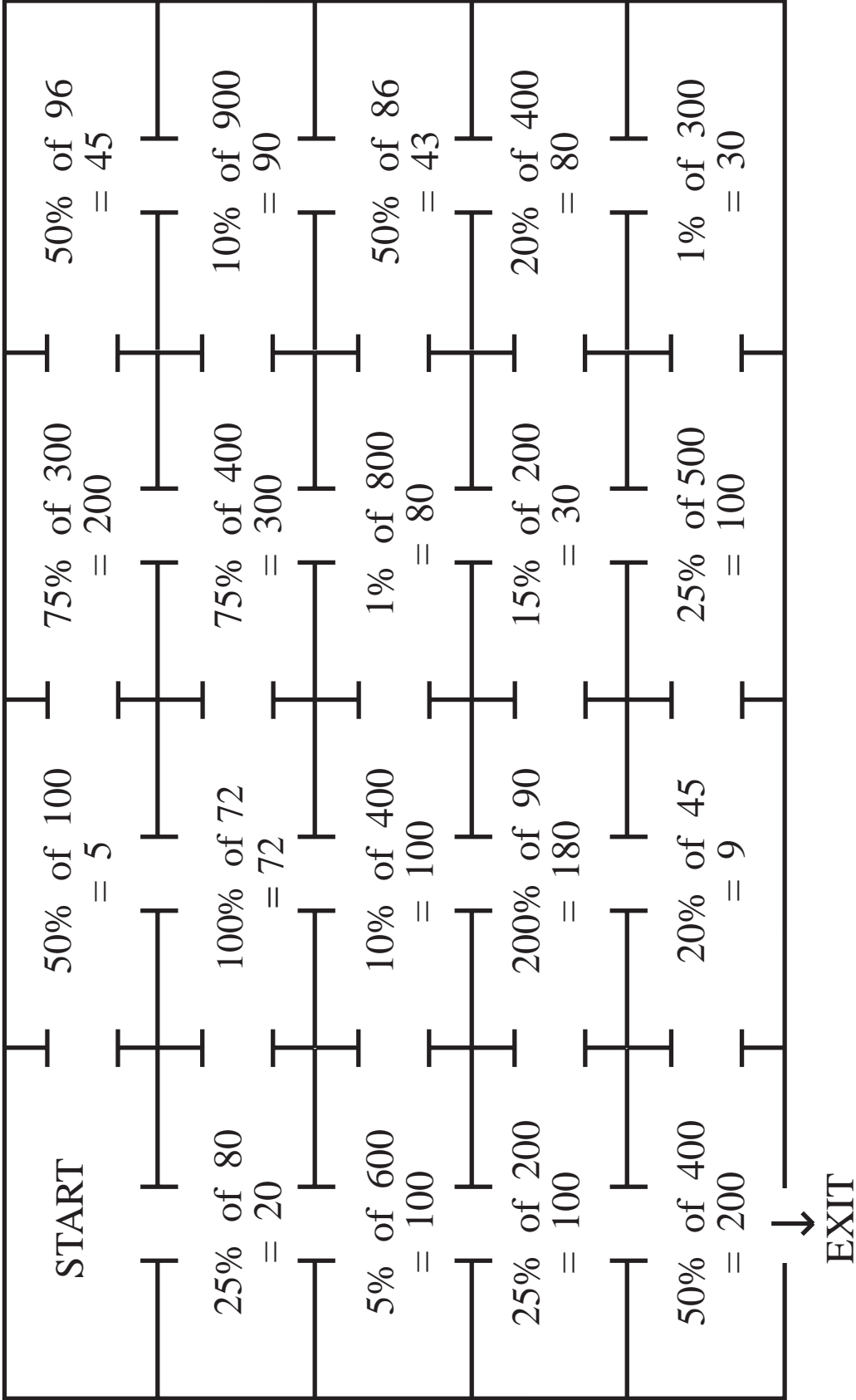
(f)



OS 11.5

Percentages of Quantities

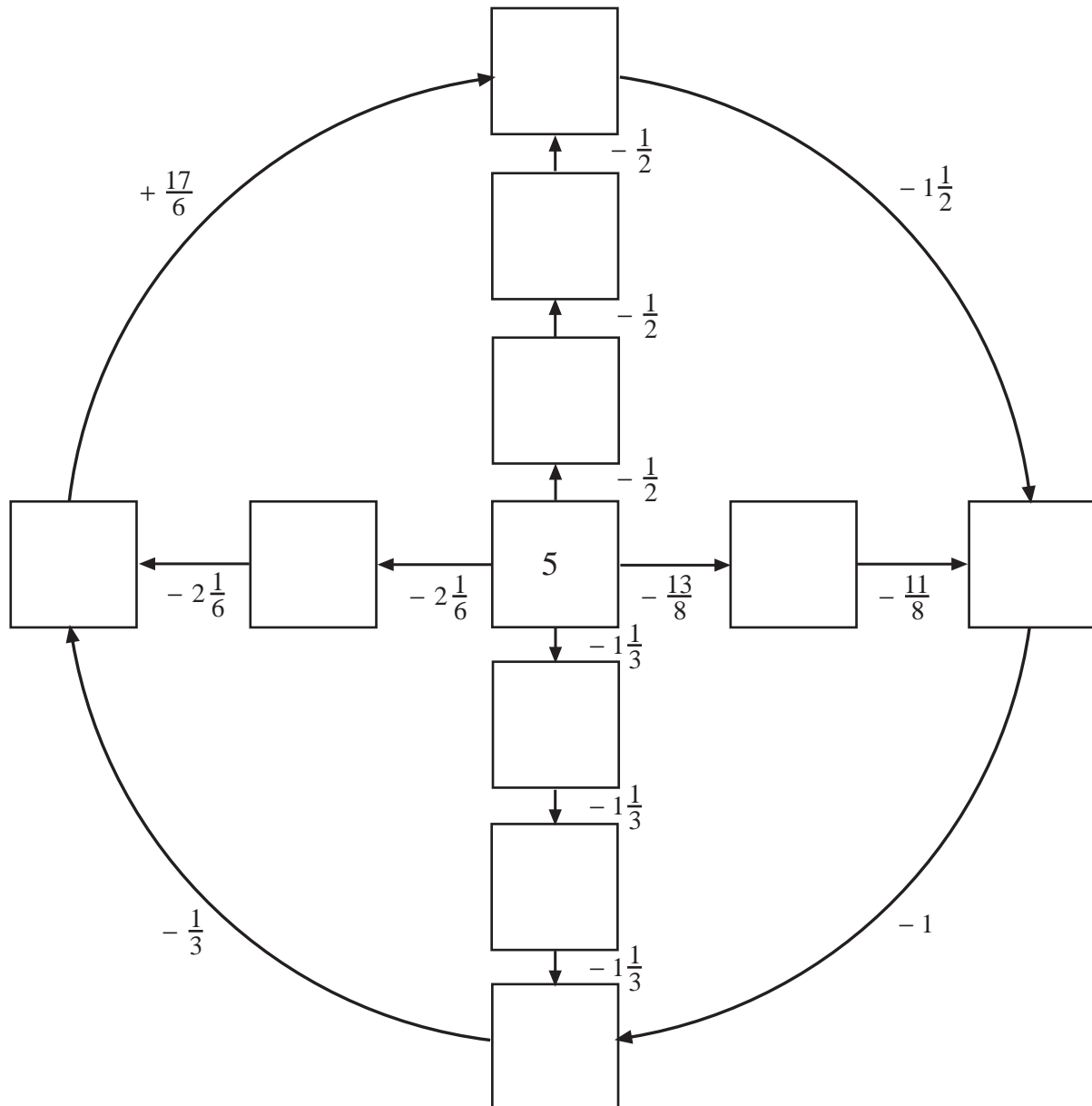
Look at the diagram below. START from the top left box and enter the next box which displays a correct statement. Carry on in the same manner until you EXIT.



## OS 11.6

*Adding and Subtracting Fractions*

Using the information given, fill in each gap with the correct number.

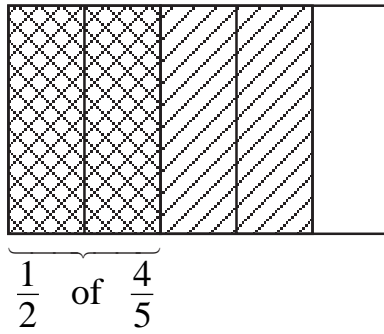
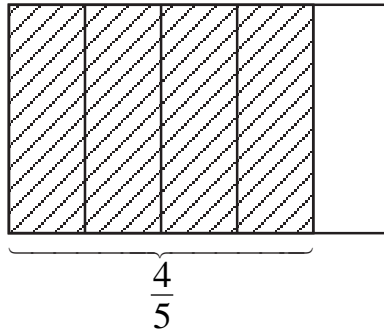




## OS 11.7

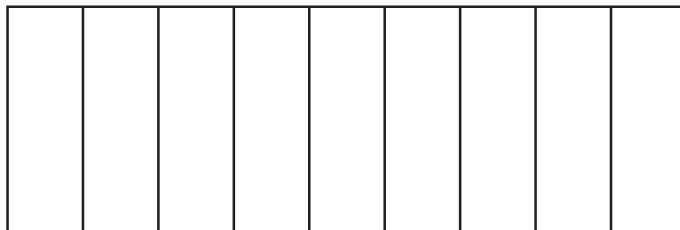
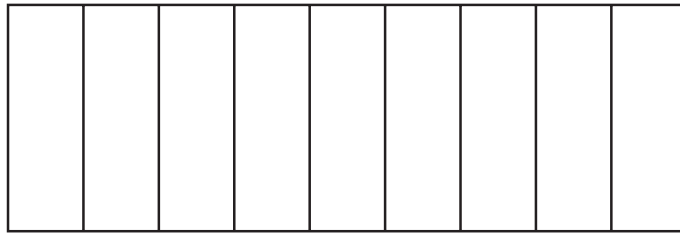
*Multiplying Fractions*

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



$$\frac{1}{2} \times \frac{4}{5} = \frac{2}{5}$$

$$\frac{1}{4} \times \frac{8}{9}$$



$$\frac{1}{4} \times \frac{8}{9} =$$