

## Repeating Decimals to Fractions

(1 repeating digit)

1. Find the fraction equal to  $0.\bar{5}$ .

4. Find the fraction equal to  $1.\bar{4}$ .

2. Find the fraction equal to  $0.\bar{8}$ .

5. Find the fraction equal to  $2.\bar{3}$ .

3. Find the fraction equal to  $0.\bar{6}$ .

6. Find the fraction equal to  $21.\bar{7}$ .

# Repeating Decimals to Fractions

(1 repeating digit)

1. Find the fraction equal to  $0.\bar{5}$ .

$$x = 0.\bar{5}$$

$$10x = 5.\bar{5}$$

$$10x - x = 5.\bar{5} - 0.\bar{5}$$

$$9x = 5$$

$$x = \frac{5}{9}$$

4. Find the fraction equal to  $1.\bar{4}$ .

$$x = 1.\bar{4}$$

$$10x = 14.\bar{4}$$

$$10x - x = 14.\bar{4} - 1.\bar{4}$$

$$9x = 13$$

$$x = \frac{13}{9}$$

2. Find the fraction equal to  $0.\bar{8}$ .

$$x = 0.\bar{8}$$

$$10x = 8.\bar{8}$$

$$10x - x = 8.\bar{8} - 0.\bar{8}$$

$$9x = 8$$

$$x = \frac{8}{9}$$

5. Find the fraction equal to  $2.\bar{3}$ .

$$x = 2.\bar{3}$$

$$10x = 23.\bar{3}$$

$$10x - x = 23.\bar{3} - 2.\bar{3}$$

$$9x = 21$$

$$x = \frac{21}{9}$$

3. Find the fraction equal to  $0.\bar{6}$ .

$$x = 0.\bar{6}$$

$$10x = 6.\bar{6}$$

$$10x - x = 6.\bar{6} - 0.\bar{6}$$

$$9x = 6$$

$$x = \frac{6}{9} = \frac{2}{3}$$

6. Find the fraction equal to  $21.\bar{7}$ .

$$x = 21.\bar{7}$$

$$10x = 217.\bar{7}$$

$$10x - x = 217.\bar{7} - 21.\bar{7}$$

$$9x = 196$$

$$x = \frac{196}{9}$$