

## Expanded Factors Form With Decimals (A)

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded factors form using fractions.

1. 5.7294952

2. 8.9033133

3. 8.1125672

4. 5.1951222

5. 9.3399109

6. 2.9598916

7. 5.8560747

8. 6.8162274

9. 2.1615577

10. 4.4123832

# Expanded Factors Form With Decimals (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Convert each standard form decimal number to expanded factors form using fractions.

1. **5.7294952**

$$(5 \times 1) + (7 \times \frac{1}{10}) + (2 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (4 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000})$$

2. **8.9033133**

$$(8 \times 1) + (9 \times \frac{1}{10}) + (3 \times \frac{1}{1000}) + (3 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000})$$

3. **8.1125672**

$$(8 \times 1) + (1 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (6 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000})$$

4. **5.1951222**

$$(5 \times 1) + (1 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000})$$

5. **9.3399109**

$$(9 \times 1) + (3 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (9 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (9 \times \frac{1}{10,000,000})$$

6. **2.9598916**

$$(2 \times 1) + (9 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (1 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000})$$

7. **5.8560747**

$$(5 \times 1) + (8 \times \frac{1}{10}) + (5 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (7 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000})$$

8. **6.8162274**

$$(6 \times 1) + (8 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (6 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000})$$

9. **2.1615577**

$$(2 \times 1) + (1 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (7 \times \frac{1}{1,000,000}) + (7 \times \frac{1}{10,000,000})$$

10. **4.4123832**

$$(4 \times 1) + (4 \times \frac{1}{10}) + (1 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (3 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (3 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000})$$