

## Expanded Factors Form With Decimals (A)

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

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

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

1. 6.36144401
2. 8.40585022
3. 4.67968552
4. 7.34069239
5. 6.14951929
6. 7.36578647
7. 2.33282865
8. 3.99063217
9. 3.98914449
10. 6.20329048

# Expanded Factors Form With Decimals (A) Answers

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

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

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

1. **6.36144401**

$$(6 \times 1) + (3 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (1 \times \frac{1}{1000}) + (4 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{100,000,000})$$

2. **8.40585022**

$$(8 \times 1) + (4 \times \frac{1}{10}) + (5 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (5 \times \frac{1}{100,000}) + (2 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

3. **4.67968552**

$$(4 \times 1) + (6 \times \frac{1}{10}) + (7 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (6 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (5 \times \frac{1}{1,000,000}) + (5 \times \frac{1}{10,000,000}) + (2 \times \frac{1}{100,000,000})$$

4. **7.34069239**

$$(7 \times 1) + (3 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (6 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (3 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

5. **6.14951929**

$$(6 \times 1) + (1 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (5 \times \frac{1}{10,000}) + (1 \times \frac{1}{100,000}) + (9 \times \frac{1}{1,000,000}) + (2 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

6. **7.36578647**

$$(7 \times 1) + (3 \times \frac{1}{10}) + (6 \times \frac{1}{100}) + (5 \times \frac{1}{1000}) + (7 \times \frac{1}{10,000}) + (8 \times \frac{1}{100,000}) + (6 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

7. **2.33282865**

$$(2 \times 1) + (3 \times \frac{1}{10}) + (3 \times \frac{1}{100}) + (2 \times \frac{1}{1000}) + (8 \times \frac{1}{10,000}) + (2 \times \frac{1}{100,000}) + (8 \times \frac{1}{1,000,000}) + (6 \times \frac{1}{10,000,000}) + (5 \times \frac{1}{100,000,000})$$

8. **3.99063217**

$$(3 \times 1) + (9 \times \frac{1}{10}) + (9 \times \frac{1}{100}) + (6 \times \frac{1}{10,000}) + (3 \times \frac{1}{100,000}) + (2 \times \frac{1}{1,000,000}) + (1 \times \frac{1}{10,000,000}) + (7 \times \frac{1}{100,000,000})$$

9. **3.98914449**

$$(3 \times 1) + (9 \times \frac{1}{10}) + (8 \times \frac{1}{100}) + (9 \times \frac{1}{1000}) + (1 \times \frac{1}{10,000}) + (4 \times \frac{1}{100,000}) + (4 \times \frac{1}{1,000,000}) + (4 \times \frac{1}{10,000,000}) + (9 \times \frac{1}{100,000,000})$$

10. **6.20329048**

$$(6 \times 1) + (2 \times \frac{1}{10}) + (3 \times \frac{1}{1000}) + (2 \times \frac{1}{10,000}) + (9 \times \frac{1}{100,000}) + (4 \times \frac{1}{10,000,000}) + (8 \times \frac{1}{100,000,000})$$