

STANDARD FORM

Conversion of Numbers and Decimal Fractions to Standard Form, and Vice Versa

Exercises

1. Write each of the following in standard form:

- (a) 254000
- (b) 4000
- (c) 56000000
- (d) 234.6
- (e) 58.5
- (f) 0.0003
- (g) 0.0000543
- (h) 0.7569

2. Express each of the following in ordinary form or full figures:

- (a) 8.15×10^5
- (b) 2×10^2
- (c) 7.54×10^1
- (f) 2.5×10^{-3}
- (g) 9×10^{-3}
- (h) 2.225×10^{-3}

3. Additional Practice — Write in standard form:

These extra questions cover two cases not in the original set: numbers already between 1 and 10 (power of zero), and very small decimals with more leading zeros.

- (i) 9.2
- (j) 1234.5
- (k) 0.048
- (l) 0.00000078

4. Additional Practice — Express in ordinary form:

- (i) 6×10^0
- (j) 3.4×10^4

(k) 1.05×10^{-6}

(l) 9.99×10^{-1}

Answers

✓ All 14 original answers checked — no errors found.

1. Standard form:

- (a) 2.54×10^5
- (b) 4×10^3
- (c) 5.6×10^7
- (d) 2.346×10^2
- (e) 5.85×10^1
- (f) 3×10^{-4}
- (g) 5.43×10^{-5}
- (h) 7.569×10^{-1}

2. Ordinary form:

- (a) 815000
- (b) 200
- (c) 75.4
- (f) 0.0025
- (g) 0.009
- (h) 0.002225

3. Standard form (additional):

- (i) 9.2×10^0
- (j) 1.2345×10^3
- (k) 4.8×10^{-2}
- (l) 7.8×10^{-7}

4. Ordinary form (additional):

- (i) 6
- (j) 34000
- (k) 0.00000105
- (l) 0.999