

Expanded Form (SI) (D)

Name: _____

Date: _____

Write each number in expanded form.

872 175

657 105

851 144

508 070

876 051

359 795

205 379

594 583

431 864

320 547

Expanded Form (SI) (D) Answers

Name: _____

Date: _____

Write each number in expanded form.

$$\begin{aligned} 872\,175 &= 800\,000 + 70\,000 + 2\,000 + 100 + 70 + 5 \\ &= (8 \times 100\,000) + (7 \times 10\,000) + (2 \times 1\,000) + (1 \times 100) + (7 \times 10) + (5 \times 1) \\ &= (8 \times 10^5) + (7 \times 10^4) + (2 \times 10^3) + (1 \times 10^2) + (7 \times 10^1) + (5 \times 10^0) \end{aligned}$$

$$\begin{aligned} 657\,105 &= 600\,000 + 50\,000 + 7\,000 + 100 + 5 \\ &= (6 \times 100\,000) + (5 \times 10\,000) + (7 \times 1\,000) + (1 \times 100) + (5 \times 1) \\ &= (6 \times 10^5) + (5 \times 10^4) + (7 \times 10^3) + (1 \times 10^2) + (5 \times 10^0) \end{aligned}$$

$$\begin{aligned} 851\,144 &= 800\,000 + 50\,000 + 1\,000 + 100 + 40 + 4 \\ &= (8 \times 100\,000) + (5 \times 10\,000) + (1 \times 1\,000) + (1 \times 100) + (4 \times 10) + (4 \times 1) \\ &= (8 \times 10^5) + (5 \times 10^4) + (1 \times 10^3) + (1 \times 10^2) + (4 \times 10^1) + (4 \times 10^0) \end{aligned}$$

$$\begin{aligned} 508\,070 &= 500\,000 + 8\,000 + 70 \\ &= (5 \times 100\,000) + (8 \times 1\,000) + (7 \times 10) \\ &= (5 \times 10^5) + (8 \times 10^3) + (7 \times 10^1) \end{aligned}$$

$$\begin{aligned} 876\,051 &= 800\,000 + 70\,000 + 6\,000 + 50 + 1 \\ &= (8 \times 100\,000) + (7 \times 10\,000) + (6 \times 1\,000) + (5 \times 10) + (1 \times 1) \\ &= (8 \times 10^5) + (7 \times 10^4) + (6 \times 10^3) + (5 \times 10^1) + (1 \times 10^0) \end{aligned}$$

$$\begin{aligned} 359\,795 &= 300\,000 + 50\,000 + 9\,000 + 700 + 90 + 5 \\ &= (3 \times 100\,000) + (5 \times 10\,000) + (9 \times 1\,000) + (7 \times 100) + (9 \times 10) + (5 \times 1) \\ &= (3 \times 10^5) + (5 \times 10^4) + (9 \times 10^3) + (7 \times 10^2) + (9 \times 10^1) + (5 \times 10^0) \end{aligned}$$

$$\begin{aligned} 205\,379 &= 200\,000 + 5\,000 + 300 + 70 + 9 \\ &= (2 \times 100\,000) + (5 \times 1\,000) + (3 \times 100) + (7 \times 10) + (9 \times 1) \\ &= (2 \times 10^5) + (5 \times 10^3) + (3 \times 10^2) + (7 \times 10^1) + (9 \times 10^0) \end{aligned}$$

$$\begin{aligned} 594\,583 &= 500\,000 + 90\,000 + 4\,000 + 500 + 80 + 3 \\ &= (5 \times 100\,000) + (9 \times 10\,000) + (4 \times 1\,000) + (5 \times 100) + (8 \times 10) + (3 \times 1) \\ &= (5 \times 10^5) + (9 \times 10^4) + (4 \times 10^3) + (5 \times 10^2) + (8 \times 10^1) + (3 \times 10^0) \end{aligned}$$

$$\begin{aligned} 431\,864 &= 400\,000 + 30\,000 + 1\,000 + 800 + 60 + 4 \\ &= (4 \times 100\,000) + (3 \times 10\,000) + (1 \times 1\,000) + (8 \times 100) + (6 \times 10) + (4 \times 1) \\ &= (4 \times 10^5) + (3 \times 10^4) + (1 \times 10^3) + (8 \times 10^2) + (6 \times 10^1) + (4 \times 10^0) \end{aligned}$$

$$\begin{aligned} 320\,547 &= 300\,000 + 20\,000 + 500 + 40 + 7 \\ &= (3 \times 100\,000) + (2 \times 10\,000) + (5 \times 100) + (4 \times 10) + (7 \times 1) \\ &= (3 \times 10^5) + (2 \times 10^4) + (5 \times 10^2) + (4 \times 10^1) + (7 \times 10^0) \end{aligned}$$