

509 ÷ 13 の筆算のしかた

$$13 \overline{)509}$$

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \hline \end{array}$$

13 × ■ が **50** をこえない
いちばん大きい数字を考
える。

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{50} \\ 9 \end{array}$$

The diagram shows a long division problem: 13 divided into 509. The divisor 13 is written in orange. The dividend 509 is written in blue. A horizontal line is drawn under the 50. A vertical dashed line is drawn under the 5, and another vertical dashed line is drawn under the 0. The digit 5 is written above the horizontal line, aligned with the first dashed line.

13 をおよそ 10 と考えると
10 × 5 が 50 をこえない
いちばん大きい数字になる。

10 と 50 の 0 を消して
1 × ■ = 5 を考えればよい

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{65} \\ 659 \\ \underline{650} \\ 90 \\ \underline{78} \\ 120 \\ \underline{117} \\ 30 \\ \underline{26} \\ 40 \\ \underline{39} \\ 10 \end{array}$$

しかし $13 \times 5 = 65$ となっ
て、50 をオーバーしたので
ダメ！

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{52} \\ 9 \end{array}$$

The diagram shows a long division problem: 13 divided into 509. The quotient digit '4' is written above the 0. A horizontal line is drawn under the 50. Below the 50, the product 52 is written. The 9 is brought down. Two vertical dashed lines are drawn: one between the 0 and 9, and another between the 2 and 9. The digit '4' is highlighted in a pink box.

そこで1へらして4にしても
 $13 \times 4 = 52$ で、まだ50を
オーバーするのでダメ！

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 119 \\ \underline{117} \\ 20 \\ \underline{13} \\ 70 \\ \underline{65} \\ 50 \\ \underline{39} \\ 11 \end{array}$$

Diagram illustrating the long division of 509 by 13. The divisor 13 is written on the left. The dividend 509 is written under the division bar. The quotient 3 is written above the bar. The first step shows 13 multiplied by 3, resulting in 39, which is subtracted from 50. The remainder 11 is then brought down to form 119. The next step shows 13 multiplied by 9, resulting in 117, which is subtracted from 119. The remainder 2 is then brought down to form 20. The final step shows 13 multiplied by 1, resulting in 13, which is subtracted from 20, leaving a remainder of 7. Vertical dashed lines separate the columns of the calculation.

さらにへらして **3** にすると
 $13 \times 3 = 39$ で、**50** より
小さくなったので OK

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 11 \end{array}$$

The diagram shows a long division problem: 13 divided into 509. The quotient digit 3 is written above the 0. A horizontal line is drawn under the 39. A vertical dashed line is drawn under the 39. Another vertical dashed line is drawn under the 9. The remainder 11 is written below the 39.

$$50 - 39 = 11 \text{ なので}$$

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 11 \end{array}$$

The diagram shows a long division problem: 13 divided into 509. The divisor 13 is written on the left. The dividend 509 is written under a horizontal line. A vertical line is drawn after the first digit of the dividend (5), and another vertical line is drawn after the second digit (0). The quotient digit 3 is written above the second digit (0). The product 39 is written below the first two digits (50), and the remainder 11 is written below the first two digits (50). The numbers 5 and 0 are blue, 3 and 9 are green, and 1 and 1 are black.

$$50 - 39 = 11 \text{ なので}$$

✓ 11 は、わる数 13 より
小さいので OK

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 3 \\ 13 \overline{) 509} \\ \underline{39} \\ 119 \end{array}$$

The diagram shows the long division of 509 by 13. The quotient 3 is written above the 0. A horizontal line is drawn under the 39. A vertical dashed line is placed between the 0 and the 9. A green arrow points down from the 9 in the dividend to the 9 in the remainder 119. The numbers 1 and 3 are written in orange to the left of the division symbol.

次の計算をするために 9 をお
ろす

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 119 \end{array}$$

The diagram shows a long division problem: 13 divided into 509. The quotient is 39 with a remainder of 119. A green square is placed above the 9 in the quotient. Vertical dashed lines separate the columns of the dividend (5, 0, 9) and the quotient (3, 9). The numbers 13, 39, and 119 are written in blue, while the 1 and 3 in the divisor are in orange.

13 × ■ が 119 をこえない
いちばん大きい数字を考
える。

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 39 \\ 13 \overline{) 509} \\ \underline{39} \\ 119 \end{array}$$

The diagram shows a long division problem: 13 divided into 509. The quotient is 39. The remainder is 119. The numbers 13, 39, and 119 are in blue. The numbers 1, 3, 5, 0, and 9 are in orange. A green square is in the top right corner. Vertical dashed lines are at the tens and ones places. A horizontal dashed line is at the tens place.

13 をおよそ 10 と考えて
119 をおよそ 120 と考えると
10 × 12 が 120 をこえない
いちばん大きい数字になるが

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 119 \end{array}$$

13 をおよそ 10 と考えて
119 をおよそ 120 と考えると
10 × 12 が 120 をこえない
いちばん大きい数字になるが
■ には 0~9 の数字しか入ら
ないので、いちばん大きい
9 と考えて

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 119 \\ \underline{117} \\ 2 \end{array}$$

$13 \times 9 = 117$ なので

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 119 \\ \underline{117} \\ 2 \end{array}$$

13 × 9 = 117 なので

119 - 117 = 2 なので

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 119 \\ \underline{117} \\ 2 \end{array}$$

13 × 9 = 117 なので

119 - 117 = 2 なので

✓ 2 は、わる数 13 より
小さいので OK

509 ÷ 13 の筆算のしかた

$$\begin{array}{r} 13 \overline{) 509} \\ \underline{39} \\ 119 \\ \underline{117} \\ 2 \end{array}$$

$$509 \div 13 = 39 \text{ あまり } 2$$