

## Spacesaver calculations: dividing by two-digit numbers - answers

You used the spacesaver division method to calculate the answers to these questions, dividing by two-digit numbers.

1. 
$$\begin{array}{r} 398 \\ 4 \overline{)471796} \end{array}$$

**Step 1:** 12 into 4 won't go, so carry 4.  
**Step 2:** 12 into 47 goes 3 times ( $12 \times 3 = 36$ ). Carry 11.  
**Step 3:** 12 into 117 goes 9 times ( $12 \times 9 = 108$ ). Carry 9.  
**Step 4:** 12 into 96 goes exactly 8 times ( $12 \times 8 = 96$ ).

2. 
$$\begin{array}{r} 302 \\ 6 \overline{)4530} \end{array}$$

**Step 1:** 15 into 4, won't go, so carry 4.  
**Step 2:** 15 into 45 goes exactly 3 times ( $15 \times 3 = 30$ ).  
**Step 3:** 15 into 3 won't go, so carry 2.  
**Step 4:** 15 into 30 goes exactly 2 times ( $15 \times 2 = 30$ ).

3. 
$$\begin{array}{r} 401 \\ 25 \overline{)10025} \end{array}$$

**Step 1:** 25 into 1 won't go, so carry 1.  
**Step 2:** 25 into 10 won't go, so carry 10.  
**Step 3:** 25 into 100 goes exactly 4 times ( $25 \times 4 = 100$ ).  
**Step 4:** 25 into 2 won't go, so carry 2.  
**Step 5:** 25 into 25 goes exactly once ( $25 \times 1 = 25$ ).

4. 
$$\begin{array}{r} 6897 \\ 11 \overline{)7581677} \end{array}$$

**Step 1:** 11 into 7 won't go, so carry 7.  
**Step 2:** 11 into 75 goes 6 times ( $11 \times 6 = 66$ ). Carry 9.  
**Step 3:** 11 into 98 goes 8 times ( $11 \times 8 = 88$ ). Carry 10.  
**Step 4:** 11 into 106 goes 9 times ( $11 \times 9 = 99$ ). Carry 7.  
**Step 5:** 11 into 77 goes exactly 7 times ( $11 \times 7 = 77$ ).

5. 
$$\begin{array}{r} 2513 \\ 9 \overline{)4082048} \end{array}$$

**Step 1:** 16 into 4 won't go, so carry 4.  
**Step 2:** 16 into 40 goes 2 times ( $16 \times 2 = 32$ ). Carry 8.  
**Step 3:** 16 into 82 goes 5 times ( $16 \times 5 = 80$ ). Carry 2.  
**Step 4:** 16 into 20 goes once ( $16 \times 1 = 16$ ). Carry 4.  
**Step 5:** 16 into 48 goes exactly 3 times ( $16 \times 3 = 48$ ).