

Bus Stop Method

Formal Division of 3-Digit Numbers



WALT:

calculate divisions using the short method.

WILF:

I can use the bus stop method to calculate 3-digit number by 1-digit number divisions, I can use the division facts I know, I can calculate divisions with remainders

$$145 \div 5 = 29$$

	0	2	9
5	1	4	5
	<div style="border: 1px solid black; display: inline-block; padding: 2px 5px;">1</div>	<div style="border: 1px solid black; display: inline-block; padding: 2px 5px;">4</div>	

$$608 \div 2 = 304$$

$$\begin{array}{r} \overline{) 608} \\ \underline{6} \\ \\ \end{array}$$

The quotient 304 is shown above the dividend 608. The digits 3, 0, and 4 are highlighted in light blue boxes. The dividend 608 is written below a horizontal line, with the divisor 2 to the left. There are two small white squares above the 0 and 8 in the dividend, indicating the positions for the quotient digits.

$$642 \div 3 = 214$$

$$\begin{array}{r} \boxed{2} \boxed{1} \boxed{4} \\ 3 \overline{) 6 \square 4 \square 2} \end{array}$$

$$512 \div 4 = 128$$

$$\begin{array}{r} \mathbf{1} \ \mathbf{2} \ \mathbf{8} \\ \hline \mathbf{4} \overline{) \mathbf{5} \overset{\mathbf{1}}{\mathbf{1}} \mathbf{2} \overset{\mathbf{3}}{\mathbf{2}}} \end{array}$$

$$374 \div 3 = 124 \text{ r}2$$

	1	2	4	r2
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3		3	7	¹	4
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$$623 \div 4 = 155 \text{ r}3$$

	1	5	5	r3
4	6	² 2	² 3	

Plenary

Wendy wants to share her 112 sweets with her 4 friends. How many sweets does each girl get?

- a) 112 divided by 5 = 22 sweets
- b) 112 divided by 5 = 22 r5 sweets
- c) 112 divided by 5 = 22 r4 sweets

Which is the correct answer?