Dividing a 2-digit number by a single digit.

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This is an intermediate step in the progress towards developing an efficient, standard method of division on paper. It presumes a good knowledge of tables before starting.

Let's divide 77 by 4.

First, let's do an estimate of the answer.
77 ÷ 4 is approximately 80 ÷ 4 which is 20. The answer will be just under 20.

$$
\begin{array}{rll}
4\overline{)77} & & \\
-\underline{40} & (10 \times 4) & \\
37 & & \\
-\underline{36} & (\ 9 \times 4) & \\
1 & &
\end{array}
$$

Now, take away a tens multiple of the divisor (4).
10 x 4 = 40.
Subtract 40, leaving 37.

Then ask 'How many fours in 37?'
9 x 4 = 36 so it is 9 with a remainder of 1.
The answer is 10 + 9 = 19, with a remainder of 1.

So the answer is 19 rem. 1

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1. $4\overline{)63}$
2. $5\overline{)64}$
3. $3\overline{)41}$
4. $3\overline{)53}$
5. $7\overline{)82}$
6. $8\overline{)98}$
7. $4\overline{)57}$
8. $6\overline{)83}$
9. $5\overline{)73}$
10. $9\overline{)98}$
11. $3\overline{)59}$
12. $4\overline{)75}$

Answers

1. 15 r 3
2. 12 r 4
3. 13 r 2
4. 17 r 2
5. 11 r 5
6. 12 r 2
7. 14 r 1
8. 13 r 5
9. 14 r 3
10. 10 r 8
11. 19 r 2
12. 18 r 3