Addition

789 + 642 becomes

	7	**8**	**9**
+	**6**	**4**	**2**
1	**4**	**3**	**1**
	1	1	

Answer: 1431

Subtraction

874 – 523 becomes

	8	**7**	**4**
–	**5**	**2**	**3**
	3	**5**	**1**

Answer: 351

932 – 457 becomes

	8	12	1
	~~9~~	~~3~~	**2**
–	**4**	**5**	**7**
	4	**7**	**5**

Answer: 475

Short multiplication

24 × 6 becomes

	2	**4**
×		**6**
1	**4**	**4**
	2	

Answer: 144

342 × 7 becomes

	3	**4**	**2**
×			**7**
2	**3**	**9**	**4**
	2	1	

Answer: 2394

2741 × 6 becomes

	2	**7**	**4**	**1**
×				**6**
1	**6**	**4**	**4**	**6**
	4	2		

Answer: 16 446

Long multiplication

24 × 16 becomes

$$\begin{array}{rrr} & {\scriptstyle 2} & \\ & \mathbf{2} & \mathbf{4} \\ \times & \mathbf{1} & \mathbf{6} \\ \hline \mathbf{2} & \mathbf{4} & \mathbf{0} \\ \mathbf{1} & \mathbf{4} & \mathbf{4} \\ \hline \mathbf{3} & \mathbf{8} & \mathbf{4} \\ \hline \end{array}$$

Answer: 384

124 × 26 becomes

$$\begin{array}{rrrr} & {\scriptstyle 1} & {\scriptstyle 2} & \\ & \mathbf{1} & \mathbf{2} & \mathbf{4} \\ \times & & \mathbf{2} & \mathbf{6} \\ \hline \mathbf{2} & \mathbf{4} & \mathbf{8} & \mathbf{0} \\ & \mathbf{7} & \mathbf{4} & \mathbf{4} \\ \hline \mathbf{3} & \mathbf{2} & \mathbf{2} & \mathbf{4} \\ \hline {\scriptstyle 1} & {\scriptstyle 1} & & \end{array}$$

Answer: 3224

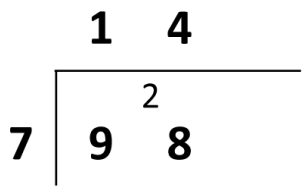
124 × 26 becomes

$$\begin{array}{rrrr} & {\scriptstyle 1} & {\scriptstyle 2} & \\ & \mathbf{1} & \mathbf{2} & \mathbf{4} \\ \times & & \mathbf{2} & \mathbf{6} \\ \hline & \mathbf{7} & \mathbf{4} & \mathbf{4} \\ \mathbf{2} & \mathbf{4} & \mathbf{8} & \mathbf{0} \\ \hline \mathbf{3} & \mathbf{2} & \mathbf{2} & \mathbf{4} \\ \hline {\scriptstyle 1} & {\scriptstyle 1} & & \end{array}$$

Answer: 3224

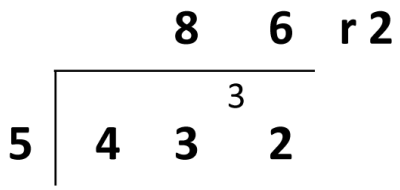
Short division

98 ÷ 7 becomes



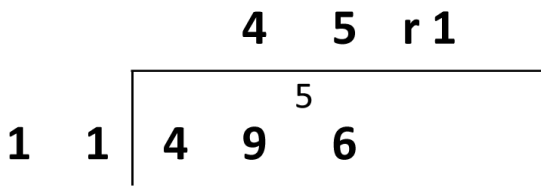
Answer: 14

432 ÷ 5 becomes



Answer: 86 remainder 2

496 ÷ 11 becomes



Answer: $45\frac{1}{11}$

Long division

432 ÷ 15 becomes

$$\begin{array}{rrrrl} & & 2 & 8 & \text{r } 12 \\ 1 & 5 & 4 & 3 & 2 \\ & & 3 & 0 & 0 \\ \hline & & 1 & 3 & 2 \\ & & 1 & 2 & 0 \\ \hline & & & 1 & 2 \end{array}$$

Answer: 28 remainder 12

432 ÷ 15 becomes

$$\begin{array}{rrrrl} & & 2 & 8 & \\ 1 & 5 & 4 & 3 & 2 \\ & & 3 & 0 & 0 \quad 15\times 20 \\ \hline & & 1 & 3 & 2 \\ & & 1 & 2 & 0 \quad 15\times 8 \\ \hline & & & 1 & 2 \end{array}$$

$\frac{\cancel{12}}{\cancel{15}} = \frac{4}{5}$

Answer: $28\ \frac{4}{5}$

432 ÷ 15 becomes

$$\begin{array}{rrrrl} & & 2 & 8 \cdot & 8 \\ 1 & 5 & 4 & 3 & 2 \cdot 0 \\ & & 3 & 0 & \downarrow \\ \hline & & 1 & 3 & 2 \\ & & 1 & 2 & 0 \\ \hline & & & 1 & 2 \quad 0 \\ & & & 1 & 2 \quad 0 \\ \hline & & & & 0 \end{array}$$

Answer: 28·8