

Maths Mastery

Long Division

Challenge Cards



Maths Mastery - Long Division

1. Explain the mistakes in this calculation.

$$\begin{array}{r} 1150 \\ 23 \overline{)4729} \end{array}$$

$$\begin{array}{r} 2300 \\ \hline 2429 \end{array}$$

$$\begin{array}{r} 2300 \\ \hline 129 \end{array}$$

$$\begin{array}{r} 115 \\ \hline 14 \end{array}$$

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2. Explain the mistakes in this calculation.

$$\begin{array}{r} 217 \\ 36 \overline{)7839} \end{array}$$

$$\begin{array}{r} 7200 \\ \hline 639 \end{array}$$

$$\begin{array}{r} 360 \\ \hline 269 \end{array}$$

$$\begin{array}{r} 252 \\ \hline 17 \end{array}$$

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3. Explain the mistakes in this calculation.

$$\begin{array}{r} 150.3 \\ 16 \overline{)2504.0} \end{array}$$

$$\begin{array}{r} 16 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 80 \\ \hline \end{array}$$

$$\begin{array}{r} 040 \\ \hline 0 \end{array}$$

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4. Find the missing numbers in these calculations.

$$\begin{array}{r} \square 88 \\ 26 \overline{) 7 \square 9 \square} \end{array}$$

$$\begin{array}{r} 5200 \\ \underline{2 \square 9 \square} \end{array}$$

$$\begin{array}{r} 2080 \\ \underline{\square 1 \square} \end{array}$$

$$\begin{array}{r} 208 \\ \underline{\quad \square} \end{array}$$

Answer: 288 r□

$$\begin{array}{r} 17 \square \\ \square 5 \overline{) 61 \square 2} \end{array}$$

$$\begin{array}{r} \square 500 \\ \underline{\square 6 \square 2} \end{array}$$

$$\begin{array}{r} 2450 \\ \underline{192} \end{array}$$

$$\begin{array}{r} 1 \square 5 \\ \underline{\quad \square 7} \end{array}$$

Answer: 17□ r□7

$$\begin{array}{r} 39 \\ 7 \square \overline{) 2946} \end{array}$$

$$\begin{array}{r} 2 \square 20 \\ \underline{\quad \square 26} \end{array}$$

$$\begin{array}{r} 6 \square 6 \\ \underline{\quad \square 0} \end{array}$$

Answer: 3□ r 6□

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5. Find the missing numbers in these calculations.

$$\begin{array}{r} 2 \square 7 \\ 24 \overline{) 4 \square 86} \end{array}$$

$$\begin{array}{r} 4800 \\ \underline{\quad \square 86} \end{array}$$

$$\begin{array}{r} 16 \square \\ \underline{\quad \square 8} \end{array}$$

$$\frac{\square \square}{24} = \frac{3}{\square}$$

Answer: 2□7□

$$\begin{array}{r} 26 \square \\ 3 \square \overline{) 83 \square 0} \end{array}$$

$$\begin{array}{r} 6 \square 00 \\ \underline{1 \square 80} \end{array}$$

$$\begin{array}{r} 1 \square \square 0 \\ \underline{\quad \square \square} \end{array}$$

$$\frac{\square 8}{32} = \frac{\square}{8}$$

Answer: 26□ $\frac{7}{8}$

$$\frac{\square \square}{84} = \frac{1}{2}$$

Answer: □6

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6. Find the missing numbers in these calculations.

$$\begin{array}{r} 18 \square . 4 \\ 25 \overline{) 4 \square 35.0} \end{array}$$

$$\begin{array}{r} 25 \\ \underline{2 \square 3} \\ 200 \end{array}$$

$$\begin{array}{r} \square 35 \\ \underline{2 \square \square} \\ 10.0 \end{array}$$

$$\begin{array}{r} 10.0 \\ \underline{10.0} \\ 0 \end{array}$$

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7. Find the missing numbers in these calculations.

$$\begin{array}{r} 104. \square 5 \\ 7 \square \overline{) 7923.00} \end{array}$$

$$\begin{array}{r} 7 \square \\ \underline{\quad \square 23} \\ \square 04 \end{array}$$

$$\begin{array}{r} 19.0 \\ \underline{\quad \square \square} \\ 3.80 \end{array}$$

$$\begin{array}{r} 3.80 \\ \underline{3.80} \\ 0 \end{array}$$

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8. Find the missing numbers in these calculations.

$$\square 45.5$$

$$\square 2 \overline{) 61\square 1.0}$$

$$\square 2$$

$$\begin{array}{r} 191 \\ \hline \end{array}$$

$$\begin{array}{r} \square \square 8 \\ \hline \end{array}$$

$$231$$

$$\begin{array}{r} \square 10 \\ \hline \end{array}$$

$$21.0$$

$$\begin{array}{r} \square 1.0 \\ \hline \end{array}$$

$$0$$

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Answers

- There should be no 1 in the thousands column. The 1 in the hundreds column should be a 2. The '50' should be '05'.

2. $639 - 360 = 279$ not 269

3. $25 - 16 = 9$ not 8, $40 \div 16 = 2r8$ not 3

4.

$\begin{array}{r} 288 \\ 26 \overline{)7491} \\ \underline{5200} \\ 2291 \\ \underline{2080} \\ 211 \\ \underline{208} \\ 3 \end{array}$	$\begin{array}{r} 175 \\ 35 \overline{)6142} \\ \underline{3500} \\ 2642 \\ \underline{2450} \\ 192 \\ \underline{175} \\ 17 \end{array}$	$\begin{array}{r} 39 \\ 74 \overline{)2946} \\ \underline{2220} \\ 726 \\ \underline{666} \\ 60 \end{array}$
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Answer: 288 r3

Answer: 175 r 17

Answer: 39 r 60

5.

$\begin{array}{r} 207 \\ 24 \overline{)4986} \\ \underline{4800} \\ 186 \\ \underline{168} \\ 18 \\ \underline{18} \\ 0 \end{array}$	$\begin{array}{r} 261 \\ 32 \overline{)8380} \\ \underline{6400} \\ 1980 \\ \underline{1920} \\ 60 \\ \underline{32} \\ 28 \end{array}$	$\begin{array}{r} 36 \\ 84 \overline{)3066} \\ \underline{2520} \\ 546 \\ \underline{504} \\ 42 \end{array}$
$\frac{18}{24} = \frac{3}{4}$	$\frac{18}{32} = \frac{7}{8}$	$\frac{42}{84} = \frac{1}{2}$
<p>Answer: $207 \frac{3}{4}$</p>	<p>Answer: $261 \frac{7}{8}$</p>	<p>Answer: $36 \frac{1}{2}$</p>

6.

$$\begin{array}{r} 189.4 \\ 25 \overline{)4735.0} \\ \underline{25} \\ 223 \\ \underline{200} \\ 235 \\ \underline{225} \\ 10.0 \\ \underline{10.0} \\ 0 \end{array}$$

7.

$$\begin{array}{r} 104.25 \\ 76 \overline{)7923.00} \\ \underline{76} \\ 323 \\ \underline{304} \\ 19.0 \\ \underline{15.2} \\ 3.80 \\ \underline{3.80} \\ 0 \end{array}$$

8.

$$\begin{array}{r} 145.5 \\ 42 \overline{)6111.0} \\ \underline{42} \\ 191 \\ \underline{168} \\ 231 \\ \underline{210} \\ 21.0 \\ \underline{21.0} \\ 0 \end{array}$$