

Maths Mastery

Long Division

Challenge Cards



Maths Mastery - Long Division

1. Explain the mistakes in this calculation.

$$\begin{array}{r}
 1150 \\
 23 \overline{)4729} \\
 \underline{2300} \\
 2429 \\
 \underline{2300} \\
 129 \\
 \underline{115} \\
 14
 \end{array}$$

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2. Explain the mistakes in this calculation.

$$\begin{array}{r}
 217 \\
 36 \overline{)7839} \\
 \underline{7200} \\
 639 \\
 \underline{360} \\
 269 \\
 \underline{252} \\
 17
 \end{array}$$

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3. Explain the mistakes in this calculation.

$$\begin{array}{r}
 150.3 \\
 16 \overline{)2504.0} \\
 \underline{16} \\
 80 \\
 \underline{80} \\
 040 \\
 \underline{0} \\
 0
 \end{array}$$

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4. Find the missing numbers in these calculations.

$$\begin{array}{r} \square 88 \\ 26 \overline{) 7 \square 9 \square} \\ \underline{5200} \\ 2 \square 9 \square \\ \underline{2080} \\ \square 1 \square \\ \underline{208} \\ \square \end{array}$$

Answer: 288 r $\square$

$$\begin{array}{r} 17 \square \\ \square 5 \overline{) 61 \square 2} \\ \underline{\square 500} \\ \square 6 \square 2 \\ \underline{2450} \\ 192 \\ \underline{1 \square 5} \\ \square 7 \end{array}$$

Answer: 17 $\square$ r $\square 7$

$$\begin{array}{r} 39 \\ 7 \square \overline{) 2946} \\ \underline{2 \square 20} \\ \square 26 \\ \underline{6 \square 6} \\ \square 0 \end{array}$$

Answer: 3 $\square$ r 6 $\square$

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5. Find the missing numbers in these calculations.

$$\begin{array}{r} 2 \square 7 \\ 24 \overline{) 4 \square 86} \\ \underline{4800} \\ \square 86 \\ \underline{16 \square} \\ \square 8 \end{array}$$

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

Answer: 2 $\square 7 \frac{3}{\square}$

$$\begin{array}{r} 26 \square \\ 3 \square \overline{) 83 \square 0} \\ \underline{6 \square 00} \\ 1 \square 80 \\ \underline{1 \square \square 0} \\ 60 \\ \underline{32} \\ 28 \end{array}$$

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

Answer: 26 $\square \frac{7}{8}$

$$\begin{array}{r} \square 6 \\ \square 4 \overline{) 306 \square} \\ \underline{\square 520} \\ 5 \square \square \\ \underline{504} \\ \square \square \end{array}$$

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

Answer: $\square 6 \frac{1}{2}$

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6. Find the missing numbers in these calculations.

$$\begin{array}{r} 18 \square.4 \\ 25 \overline{) 4 \square 35.0} \\ \underline{25} \\ 2 \square 3 \\ \underline{200} \\ \square 35 \\ \underline{2 \square \square} \\ 10.0 \\ \underline{10.0} \\ 0 \end{array}$$

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7. Find the missing numbers in these calculations.

$$\begin{array}{r} 104.\square 5 \\ 7 \square \overline{) 7923.00} \\ \underline{7 \square} \\ \square 23 \\ \underline{\square 04} \\ 19.0 \\ \underline{\square \square \square} \\ 3.80 \\ \underline{3.80} \\ 0 \end{array}$$

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8. Find the missing numbers in these calculations.

$$\begin{array}{r}
 \square 45.5 \\
 \square 2 \overline{) 61\square 1.0} \\
 \underline{\square 2} \\
 191 \\
 \underline{\square\square 8} \\
 231 \\
 \underline{\square 10} \\
 21.0 \\
 \underline{\square 1.0} \\
 0
 \end{array}$$

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Answers

1. 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, $40 \div 16 = 2\text{r}8$ 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.

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

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.

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

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