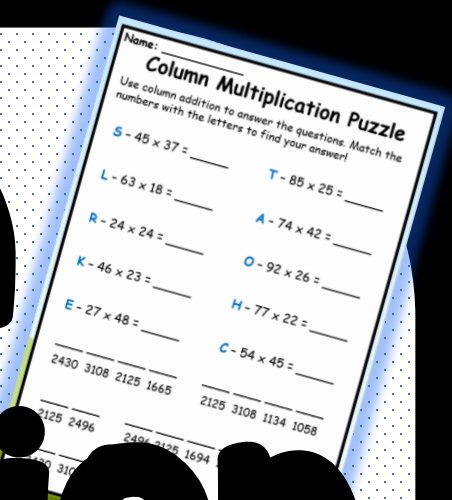
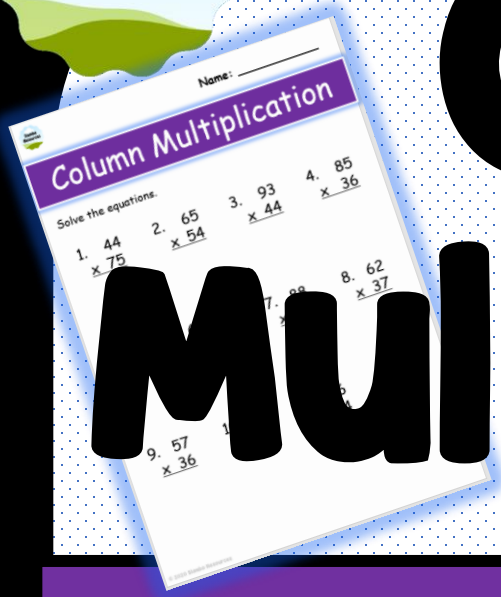


Column

Multiplication

Lesson Ready!



Column Multiplication I DO

Column multiplication is important because it helps us to multiply large numbers. Follow the steps below.

Step 1: Start on the right with the 4. $4 \times 3 = 12$, put down the 2 & carry the 1. $4 \times 4 = 16$, plus the 1 is 17, put down the 17.

Step 2: Now we're working in the tens, so we must put down a 0.

Step 3: $5 \times 3 = 15$, put down the 5, carry the 1. $5 \times 4 = 20$, plus 1 = 21.

Step 4: Add them!

$$\begin{array}{r} 1 \\ 43 \\ \times 54 \\ \hline 172 \\ +2150 \\ \hline 2322 \end{array}$$

Column Multiplication YOU DO

Have a go by yourself! Remember to start on the right.

$$\begin{array}{r} 33 \\ \times 94 \\ \hline 132 \\ + 2970 \\ \hline 3102 \end{array}$$

$$\begin{array}{r} 66 \\ \times 33 \\ \hline 198 \\ + 1980 \\ \hline 2178 \end{array}$$

$$\begin{array}{r} 49 \\ \times 24 \\ \hline 196 \\ + 980 \\ \hline 1176 \end{array}$$

Column Multiplication

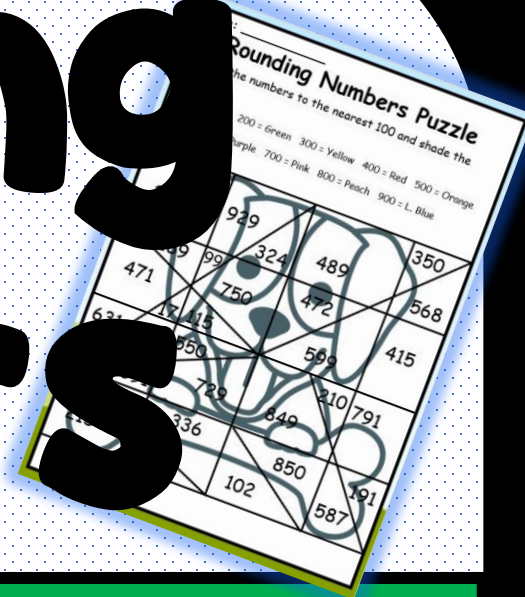
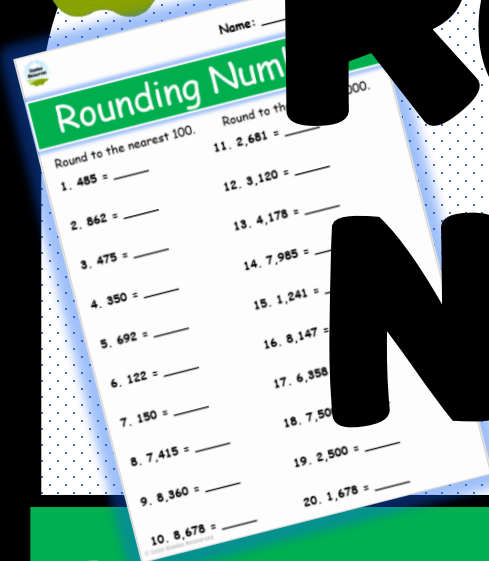
Let's try some together! Remember to start on the right.

$$\begin{array}{r} 65 \\ \times 34 \\ \hline 260 \\ + 1950 \\ \hline 2210 \end{array}$$

$$\begin{array}{r} 73 \\ \times 84 \\ \hline 292 \\ + 5840 \\ \hline 6132 \end{array}$$

$$\begin{array}{r} 64 \\ \times 64 \\ \hline 104 \\ + 1560 \\ \hline 1664 \end{array}$$

Rounding Numbers



Lesson Ready!

Rounding Numbers

The same concept is applied when rounding to the nearest 100 or 1000. Use this strategy below.

Strategy - Rounding to nearest 100

Step 1: Go to the hundreds place & underline

374

Step 2: Look at the numbers which aren't underlined - 74. Is it closer to 0 or 100? It's closer to 100, so our answer is rounded up to 400.

374 → 400

I DO

Rounding Numbers

Strategy - Rounding to nearest 1000

Step 1: Go to the thousands place & underline

7,425

Step 2: Look at the numbers which aren't underlined - 425. Is it closer to 400 or 500? It's closer to 400, so our answer is rounded down to 7,400.

7,425 → 7,000

Rounding Numbers

Strategy - Rounding to nearest 10, 100 or 1000

Sometimes, questions can be tricky and might ask you to round to the nearest 100 with a number like 8,241. You just need to follow the same strategy.

Step 1: Go to the hundreds place & underline the number.

8,241

Step 2: Look at the numbers to the right which aren't underlined - 41. Is it closer to 200 or 300? It's closer to 200, so our answer is rounded down to 8,200.

8,241 → 8,200

I DO

Grade 4

Name: _____

Short Division

Solve the equations.

- $5 \overline{)455}$
- $3 \overline{)813}$
- $8 \overline{)456}$
- $7 \overline{)399}$
- $8 \overline{)248}$
- $9 \overline{)648}$
- $6 \overline{)846}$
- $5 \overline{)935}$
- $7 \overline{)147}$
- $7 \overline{)829}$
- $6 \overline{)938}$
- $7 \overline{)147}$
- $6 \overline{)255}$
- $8 \overline{)362}$
- $19 \overline{)361}$

Short Division

Name: _____

Short Division Puzzle

Use short division to answer the questions and color the rainbow & mountains!

221 r2 = Blue 135 = Yellow 236 r2 = Pink
141 = Red 21 = Green 181 = Orange 161 = Orange

$675 \div 5$
 $886 \div 4$
 $846 \div 6$
 $126 \div 6$
 $946 \div 4$
 $905 \div 5$
 $966 \div 6$

Lesson Ready!

Short Division

Short division is important for when dividing large numbers. Follow the steps below.

$$8412 \div 4 \rightarrow 4 \overline{)8412} \begin{array}{r} 2103 \\ \underline{8} \\ 4 \\ \underline{4} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

Step 1: How many times does 4 go into 8?...the answer is 2

Step 2: How many times does 4 go into 4?...the answer is 1

Step 3: How many times does 4 go into 1?...the answer is 0

Step 4: Because the answer was 0, we ask, how many times does 4 go into 12?...the answer is 3

I DO

Remainders

Short

If you have a remainder, you simply write 'r' and the number. Check out the example below.

$$423 \div 3 \rightarrow 3 \overline{)423} \begin{array}{r} 141 \\ \underline{3} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

Step 1: How many times does 3 go into 4?...the answer is 1 with a remainder 1. Place that remainder next to the next number and it becomes 12.

Step 2: How many times does 3 go into 12?...the answer is 4.

Step 3: How many times does 3 go into 3?...the answer is 1.

Remainders

Short Division

If there is a remainder on the last number, you simply write 'r' and the number. Look at the example below.

$$557 \div 5 \rightarrow 5 \overline{)557} \begin{array}{r} 111 \text{ r}2 \\ \underline{5} \\ 0 \\ \underline{5} \\ 0 \\ \underline{5} \\ 0 \end{array}$$

Step 1: How many times does 5 go into 5?...the answer is 1.

Step 2: How many times does 5 go into 1?...the answer is 0.

Step 3: How many times does 5 go into 7?...the answer is 1 remainder 2.

I DO

Grade 4