

OneInMath

Div 2d 2-12 - Instructions (Pages 1 to 4, Packet #281)

Tutor: _____

Student: _____

Date: ____/____/2025

What To Do Next

When student completes this packet:

- ☐ Check packet for accuracy.
- ☐ Ask oral questions and determine next assignment.

Assign packet (check one): ____ Classwork ____ Homework

- ☐ Finish this packet.
- ☐ Repeat this packet (#281): [Div 2d 2-12 - Instructions](#)
- ☐ Assign next packet (#282): [Div 2d 2-12 - Div 2-6 NR 2d](#)
- ☐ Assign another packet: _____

Instructions For This Packet

Page 1: This is an instructions packet. Please review the instructions with the student and then print the next packet for classwork/homework.

Video Links

No video recommendations.

Tutor Notes

Long Division: Solve $108 \div 9 = 12$ as vertical division

Why Long Division? They are useful to solve big numbers. Like $288 \div 8$, or $1569 \div 9$.

Lets start with something simple: $108 \div 9$

We learnt before, we can simply write the problem as:

$$\begin{array}{r} 12 \\ 9 \overline{) 108} \end{array}$$

And we can solve it as:

$$\begin{array}{r} 12 \\ 9 \overline{) 108} \\ - 108 \\ \hline 0 \end{array}$$

Write the following problems vertically and solve:

$$96 \div 8 = 12$$



$$110 \div 11 = 10$$



Long Division: Solve $108 \div 9 = 12$ as long division

Step 1	Step 2	Step 3
$ \begin{array}{r} 0 \\ 9 \overline{) 108} \\ \underline{- 0} \\ 1 \end{array} $	$ \begin{array}{r} 01 \\ 9 \overline{) 108} \\ \underline{- 0} \\ 10 \\ \underline{- 9} \\ 1 \end{array} $	$ \begin{array}{r} 012 \\ 9 \overline{) 108} \\ \underline{- 0} \\ 10 \\ \underline{- 9} \\ 18 \\ \underline{- 18} \\ 0 \end{array} $

Write the following problems vertically and solve:

$$96 \div 8 = 12$$

$$110 \div 11 = 10$$

Long Division: Solve $108 \div 9 = 12$ as long division (simplify)Solve: $108 \div 9 = 12$

Note: We can also consider the first number that is equal or greater than 9 and skip one step.

$$\begin{array}{r} 1 \\ 9 \overline{) 108} \\ \underline{- 9} \\ 1 \end{array}$$

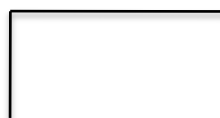
$$\begin{array}{r} 12 \\ 9 \overline{) 108} \\ \underline{- 9} \\ 18 \\ \underline{- 18} \\ 0 \end{array}$$

Write the following problems vertically and solve:

$$121 \div 11 = 11$$



$$144 \div 12 = 12$$



Long Division: Solve $288 \div 9 = 32$ as long division

Step 1

$$\begin{array}{r} 3 \\ 9 \overline{) 288} \\ - 27 \\ \hline 1 \end{array}$$

Step 2

$$\begin{array}{r} 32 \\ 9 \overline{) 288} \\ - 27 \\ \hline 18 \\ - 18 \\ \hline 0 \end{array}$$

Write the following problems vertically and solve:

$$376 \div 8 = 47$$



$$429 \div 11 = 39$$



