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

_____

_____

Name:_____ Date:____ /____ / 2025 Start:_____ End:_____

Long Division: Solve 108 ÷ 9 = 12 as vertical division

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

Lets start with something simple: 108 ÷ 9

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

$$9\overline{)108}\quad 12$$

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 ÷ 8 = 12

110 ÷ 11 = 10

Name:_____ Date:____ /____ / 2025 Start:_____ End:_____

Long Division: Solve 108 ÷ 9 = 12 as long division

Step 1

$$\begin{array}{r} 0 \\ 9\overline{)\,108} \\ -\,0 \\ \hline 1 \end{array}$$

Step 2

$$\begin{array}{r} 01 \\ 9\overline{)\,108} \\ -\,0 \\ \hline 10 \\ -\,9 \\ \hline 1 \end{array}$$

Step 3

$$\begin{array}{r} 012 \\ 9\overline{)\,108} \\ -\,0 \\ \hline 10 \\ -\,9 \\ \hline 18 \\ -\,18 \\ \hline 0 \end{array}$$

Write the following problems vertically and solve:

96 ÷ 8 = 12

110 ÷ 11 = 10

Name:_____ Date:____ /____ / 2025 Start:_____ End:_____

Long Division: Solve 108 ÷ 9 = 12 as long division (simplify)

Solve: 108 ÷ 9 = 12

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

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

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

Write the following problems vertically and solve:

121 ÷ 11 = 11

144 ÷ 12 = 12

Name:_____ Date:____ /____ / 2025 Start:_____ End:_____

Long Division: Solve 288 ÷ 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 ÷ 8 = 47

429 ÷ 11 = 39