

Name

KEY

Date Week 19 Homework
due Monday 1/13/20

7

DIVISION USING PARTIAL QUOTIENTS

Three-Digit Dividends with and without Remainders

1)

$$\begin{array}{r} 4 \overline{) 591} \\ \underline{400} \\ 191 \\ \underline{160} \\ 31 \\ \underline{28} \\ \hline 3 \end{array}$$

100
40
7
147

Easy Multiples

$$\begin{array}{l} 4 \times 1 = 4 \\ 4 \times 2 = 8 \\ 4 \times 5 = 20 \\ 4 \times 10 = 40 \\ 4 \times 20 = 80 \\ 4 \times 50 = 200 \\ 4 \times 100 = 400 \\ 4 \times 200 = 800 \end{array}$$

2)

$$\begin{array}{r} 3 \overline{) 861} \\ \underline{600} \\ 261 \\ \underline{240} \\ 21 \\ \underline{21} \\ \hline 0 \end{array}$$

200
80
7
287

Easy Multiples

$$\begin{array}{l} 3 \times 1 = 3 \\ 3 \times 2 = 6 \\ 3 \times 5 = 15 \\ 3 \times 10 = 30 \\ 3 \times 20 = 60 \\ 3 \times 50 = 150 \\ 3 \times 100 = 300 \\ 3 \times 200 = 600 \end{array}$$

3)

$$\begin{array}{r} 2 \overline{) 506} \\ \underline{400} \\ 106 \\ \underline{100} \\ 6 \\ \underline{6} \\ \hline 0 \end{array}$$

200
50
3
253

Easy Multiples

$$\begin{array}{l} 2 \times 1 = 2 \\ 2 \times 2 = 4 \\ 2 \times 5 = 10 \\ 2 \times 10 = 20 \\ 2 \times 20 = 40 \\ 2 \times 50 = 100 \\ 2 \times 100 = 200 \\ 2 \times 200 = 400 \end{array}$$

4)

$$\begin{array}{r} 5 \overline{) 478} \\ \underline{250} \\ 228 \\ \underline{200} \\ 28 \\ \underline{25} \\ \hline 3 \end{array}$$

50
40
5
95

Easy Multiples

$$\begin{array}{l} 5 \times 1 = 5 \\ 5 \times 2 = 10 \\ 5 \times 5 = 25 \\ 5 \times 10 = 50 \\ 5 \times 20 = 100 \\ 5 \times 50 = 250 \\ 5 \times 100 = 500 \end{array}$$

5)

$$\begin{array}{r} 8 \overline{) 862} \\ \underline{800} \\ 62 \\ \underline{40} \\ 22 \\ \underline{16} \\ \hline 6 \end{array}$$

100
5
2
107

Easy Multiples

$$\begin{array}{l} 8 \times 1 = 8 \\ 8 \times 2 = 16 \\ 8 \times 5 = 40 \\ 8 \times 10 = 80 \\ 8 \times 20 = 160 \\ 8 \times 50 = 400 \\ 8 \times 100 = 800 \end{array}$$

6)

$$\begin{array}{r} 6 \overline{) 504} \\ \underline{300} \\ 204 \\ \underline{180} \\ 24 \\ \underline{24} \\ \hline 0 \end{array}$$

50
30
4
84

Easy Multiples

$$\begin{array}{l} 6 \times 1 = 6 \\ 6 \times 2 = 12 \\ 6 \times 5 = 30 \\ 6 \times 10 = 60 \\ 6 \times 20 = 120 \\ 6 \times 50 = 300 \\ 6 \times 100 = 600 \end{array}$$

#7 Choose the best answer

Jackson is organizing his pantry. There are 49 items of food to organize, and 3 items can be put into each container. If Jackson only wants full containers, how many items are left over?

- 2 4
 1 0

$$\begin{array}{r} 16 \text{ R}1 \\ 3 \overline{)49} \\ \underline{-3} \\ 19 \\ \underline{-18} \\ 1 \end{array}$$

#8 Choose the best answer

William has \$49 and wants to buy as many games at the arcade as possible. If each game costs \$2, how many dollars will William have left at the end?

- 1 2
 4 0

$$\begin{array}{r} 24 \text{ R}1 \\ 2 \overline{)49} \\ \underline{-4} \\ 09 \\ \underline{-8} \\ 1 \end{array}$$

#9 Choose the best answer

A computer is trying to print things to the screen, but it can only print 2 words in a row. If there are 39 words, how many will it not be able to print?

- 4 0
 2 1

$$\begin{array}{r} 19 \text{ R}1 \\ 2 \overline{)39} \\ \underline{-2} \\ 19 \\ \underline{-18} \\ 1 \end{array}$$

#10 Choose the best answer

You have 27 cups of flour, and want to make as many batches of cookies as possible with what you have. If a batch uses 2 cups of flour, how many cups of flour will you have when you're done cooking as many batches as possible?

- 0 2
 3 1

$$\begin{array}{r} 13 \text{ R}1 \\ 2 \overline{)27} \\ \underline{-2} \\ 07 \\ \underline{-6} \\ 1 \end{array}$$

#11 Choose the best answer

You have 32 cups of flour, and want to make as many batches of cookies as possible with what you have. If a batch uses 3 cups of flour, how many cups of flour will you have when you're done cooking as many batches as possible?

- 1 2
 0 5

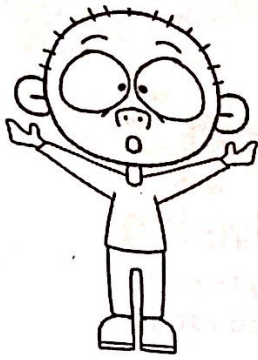
$$\begin{array}{r} 10 \text{ R}2 \\ 3 \overline{)32} \\ \underline{-3} \\ 02 \\ \underline{-0} \\ 2 \end{array}$$

#12 Choose the best answer

Sarah has to give away any toys that don't fit in her bins that hold 3 toys each. Each bin must be full. If she has 28 toys, how many toys will she be giving away?

- 3 2
 1 0

$$\begin{array}{r} 09 \text{ R}2 \\ 3 \overline{)28} \\ \underline{-0} \\ 28 \\ \underline{-27} \\ 1 \end{array}$$



What Went Wrong?

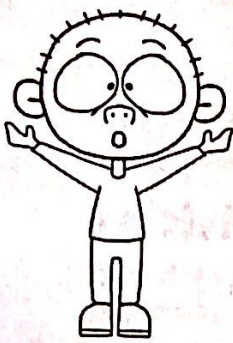
4.NBT.6 Division

Directions: Goofus has solved three problems incorrectly. Your job is to find the mistakes he made and then solve the problem correctly.

Student's Work	Show Him the Correct Solution
$\begin{array}{r} 176 \\ 4 \overline{)7004} \\ \underline{-4} \\ 30 \\ \underline{-28} \\ 24 \\ \underline{-24} \\ 0 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block;"> $\begin{array}{r} 32 \\ 176 \\ \times 4 \\ \hline 704 \end{array}$ </div>	$\begin{array}{r} 1751 \\ 4 \overline{)7004} \\ \underline{-4} \\ 30 \\ \underline{-28} \\ 20 \\ \underline{-20} \\ 04 \\ \underline{-4} \\ 0 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 32 \\ 1751 \\ \times 4 \\ \hline 7004 \end{array}$ </div> <p style="text-align: center; border: 1px solid black; padding: 2px;">Check</p>
$\begin{array}{r} 1150 R2 \\ 8 \overline{)9102} \\ \underline{-8} \\ 11 \\ \underline{-8} \\ 30 \\ \underline{-24} \\ 62 \\ \underline{-56} \\ 6 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 11 \\ 1150 \\ \times 8 \\ \hline 9200 \\ + 2 \\ \hline 9202 \end{array}$ </div>	$\begin{array}{r} 1137 R6 \\ 8 \overline{)9102} \\ \underline{-8} \\ 11 \\ \underline{-8} \\ 30 \\ \underline{-24} \\ 62 \\ \underline{-56} \\ 6 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 125 \\ 1137 \\ \times 8 \\ \hline 9096 \\ + 6 \\ \hline 9102 \end{array}$ </div> <p style="text-align: center; border: 1px solid black; padding: 2px;">Check</p>
$\begin{array}{r} 914 \\ 4 \overline{)2016} \\ \underline{-16} \\ 41 \\ \underline{-36} \\ 5 \\ \underline{-4} \\ 16 \\ \underline{-16} \\ 0 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 3 \\ 4914 \\ \times 4 \\ \hline 19656 \end{array}$ </div>	$\begin{array}{r} 504 \\ 4 \overline{)2016} \\ \underline{-20} \\ 01 \\ \underline{-0} \\ 16 \\ \underline{-16} \\ 0 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 504 \\ 4 \\ \times 4 \\ \hline 2016 \end{array}$ </div> <p style="text-align: center; border: 1px solid black; padding: 2px;">Check</p>

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* Check answers with multiplication!



What Went Wrong?

4.NBT.6 Division

Directions: Goofus has solved three problems incorrectly. Your job is to find the mistakes he made and then solve the problem correctly.

Student's Work	Show Him the Correct Solution
$\begin{array}{r} \overset{\textcircled{7}}{14} \text{R}2 \\ 6 \overline{)5084} \\ \underline{-42} \\ 88 \\ \underline{-84} \\ 44 \\ \underline{-42} \\ 2 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 24 \\ 7147 \\ \times 6 \\ \hline 42882 \end{array}$ </div>	$\begin{array}{r} \textcircled{847} \text{R}2 \\ 6 \overline{)5084} \\ \underline{-48} \\ 28 \\ \underline{-24} \\ 44 \\ \underline{-42} \\ 2 \end{array}$ <div style="margin-top: 20px;"> $\begin{array}{r} 2847 \\ 6 \\ \times 5 \\ \hline 2805 \end{array}$ </div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Check</div>
$\begin{array}{r} \overset{\textcircled{17}}{4} \\ 4 \overline{)7028} \\ \underline{-4} \\ 30 \\ \underline{-28} \\ 22 \\ \underline{-20} \\ 28 \\ \underline{-28} \\ 0 \end{array}$ <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-top: 10px;"> $\begin{array}{r} 212 \\ 7747 \\ \times 4 \\ \hline 6988 \end{array}$ </div>	$\begin{array}{r} \textcircled{1757} \\ 4 \overline{)7028} \\ \underline{-4} \\ 30 \\ \underline{-28} \\ 22 \\ \underline{-20} \\ 82 \\ \underline{-82} \\ 0 \end{array}$ <div style="margin-top: 20px;"> $\begin{array}{r} 322 \\ 3 \overline{)757} \\ 4 \\ \times 7 \\ \hline 7028 \end{array}$ </div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Check</div>
$\begin{array}{r} 95 \text{R}10 \\ 5 \overline{)4760} \\ \underline{-45} \\ 26 \\ \underline{-25} \\ 10 \end{array}$	$\begin{array}{r} \textcircled{952} \\ 5 \overline{)4760} \\ \underline{-45} \\ 26 \\ \underline{-25} \\ 10 \\ \underline{-10} \\ 0 \end{array}$ <div style="margin-top: 20px;"> $\begin{array}{r} 2952 \\ 5 \\ \times 5 \\ \hline 4760 \end{array}$ </div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">Check</div>

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★ Check answers with multiplication!