

Neptune Week 10 Answers

Literacy

Numeracy

Reach 100

Some thoughts and possible solutions can be found here:
<https://nrich.maths.org/1130/solution>

Two Possible Solutions:

2	1
3	8

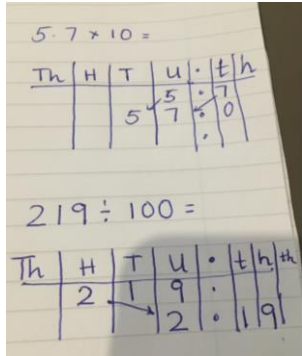
$21 + 38 + 23 + 18 = 100$

1	4
2	7

$14 + 27 + 12 + 47 = 100$

Multiplying and Dividing Decimals by 10, 100, 1000

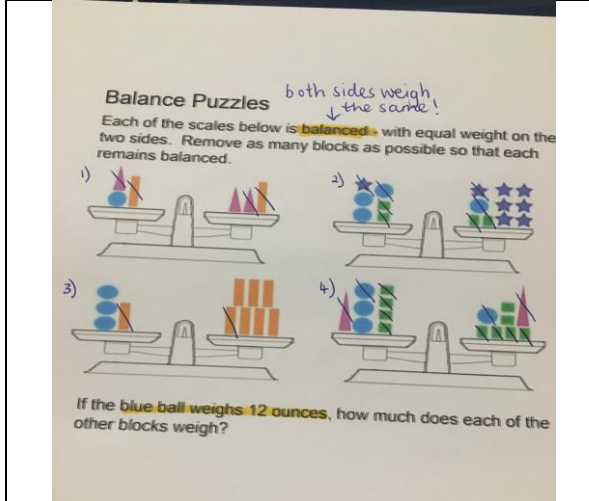
(1) 57, 570, 5700
 (2) 230.2, 2302, 23020
 (3) 9.2, 92, 920
 (4) 3.06, 30.6, 306
 (5) 4.3, 0.43, 0.043
 (6) 21.9, 2.19, 0.219
 (7) 6.4, 0.64, 0.064
 (8) 256, 25.6, 2.56



The image shows two handwritten examples of decimal operations using place value charts. The first example is $5.7 \times 10 =$. The place value chart has columns for Tens (Th), Hundreds (H), Tens (T), Units (U), Tenths (t), and Hundredths (h). The number 5.7 is written in the T and t columns. An arrow points from the 5 in the T column to the 5 in the U column, and another arrow points from the 7 in the t column to the 7 in the h column. The result is 57. The second example is $219 \div 100 =$. The place value chart has columns for Tens (Th), Hundreds (H), Tens (T), Units (U), Tenths (t), and Hundredths (h). The number 219 is written in the H, T, and U columns. An arrow points from the 2 in the H column to the 2 in the U column, another arrow points from the 1 in the T column to the 1 in the t column, and a third arrow points from the 9 in the U column to the 9 in the h column. The result is 2.19.

Balancing Puzzle

- Remove as many blocks as possible from each side so that it remains balance. **Whatever you remove from one side, you must also remove from the other side. Look at what is left. If we know that the circle = 12oz, we can work out the weights of the other shapes. (circle = 12oz, triangle = 12oz, square = 12oz, rectangle = 6oz, star = 4oz)**



- We know that the circle = 12oz
- 1) If 1 circle = 1 triangle, 1 triangle also = 12oz
 - 2) 2 circles (24 oz) = 6 stars
 1 star = $24oz \div 6 = 4oz$
 - 3) 3 circles (36oz) = 6 rectangles
 1 rectangle = $36oz \div 6 = 6oz$
 - 4) 2 circles = 2 squares
 1 circle (12oz) = 1 square, square = 12oz

Other