Answers

Maths - Summer 1- Week 4

Lesson 1- 11.5.20

Challenge 1:
1. 5.75
2. 4.4 + 7.044 = 11.444   4.42 + 1.6 = 6.02
3. Phillip did not line up the decimal points, so the numbers do not have the correct place value because they are not in the correct columns.
   (b) The correct answer is 15.75

Challenge 2:
1.(a) 4.62   (b) 13.73   (c) 6.25   (d) 20.05
2. 7.245 km
3. (a) 9.589   (b) 7.879   (c) 8.58
4. 3.988m of cotton
5. Millie is not correct. She read for 4.25 hours altogether.

Challenge 3:
1. (a) 12.49   (b) 79.16   (c) 2.321   (d) 5.971
2. (a) **2**4.3 + 1**5**.37 = 39.67   (b) 4.8**5** + 7.**9** = 12.65
3. 176.1km
4. 6.533 + 4.37 = 10.903. All of the other calculations have the answer 10.902.
5. There are two possible solutions.
   Bananas: 4.2kg, Apples: 3.65kg, Oranges: 2.155kg
   Bananas: 4.15kg, Apples: 3.055kg, Oranges: 2.8kg

Lesson 2- 12.5.20

Review: 4.65-3.81 = 0.84
You could add a zero in the hundredths column to make the subtraction easier. 6.43 -5.2 = 1.23
5.7 - 2.63 = 3.07
Let's Practise: 8.34 -6.109 = 2.231

Challenge 1:
1. 3.23

2. **4.7 − 3.825** each number has a different number of decimal places. You have to exchange in the tenths, hundredths and thousandths column.

   4.699 − 3.824 each number has the same number of decimal places. You have to exchange only in the tenths column. Therefore the first number is more difficult because you have to line up the columns correctly and exchange more.

3. (a) 5.57   (b) 1.118   (c) 11.451

Challenge 2:
1. 3.14
2. (a) 3.827   (b) 4.424   (c) 1.881
3. The difference in height is 0.18m

Challenge 3:
1. £5.73
2. 13.4 - 2.59 = 10.81
3. 32.56g
4. 2.59 is correct. The first girl has not exchanged, The second boy exchanged, but didn't take the one he exchanged for ten tenths away from the ones column (the 8 should be a 7).

Lesson 3- 13.5.20

Example: 6+ 5.23 = 11.23

Let's Practise: 55.509   26 -3.4 = 22.6   71 - 3.086 = 67.914

Challenge 1:
1. 33.74
2. 144.45
3. 11.8
4. 7.4
5. 55.8

Challenge 2:
1. 10.8
2. Various e.g. Number line / PV grid/ bar model
3. (a) 41.72   (b) 18.75   (c) 27.105   (d) 1.63
4. 43.85km

Challenge 3:
1. Any chosen sensible explanation
2. (a) 31.32   (b) 28.44
3. Caleb is not correct. The cook does not have 5.46kg of potatoes left.12kg – 4kg = 8kg and 8kg – 3.54kg = 4.46kg, **not 5.46kg.**

Lesson 4- 14.5.20

The rule is that the decimals increase by 0.4 each time.
The next term in the sequence will be 1.9.

<u>Let's Practise</u>
The rule is each number decreases by 0.55
The next term will be 1.22

<u>Challenge 1:</u>
    1. (a) 1.3 , 1.5, 1.7   (b) 1.9   (c) 2.1   (d) increase by 0.2 each time.
    2. 4.8   5   5.2   5.4   5.6   5.8   6

<u>Challenge 2:</u>
1.
      3   2.95   2.9   2.85   2.8   2.75 2.7   2.65 2.6   2.55

2. 1.54   1.65
3.(a) increases by 0.15   (b) increases by 1.25
4. (a) increase by 0.03   (b) increase by 0.5
5. Asha is incorrect about the rule, but correct about what the next term in the sequence would be.
The rule is + 1.02.
The next number would be 6.46

<u>Challenge 3:</u>
1.   1.74   1.5   1.26   1.02   0.78   0.54
2. (a) 12.8   (b) No. The closest number would be 15.8
    3. 2 will NOT be in the sequence, The 4th term is 2.01
    4. Challenge 1: START 3.7, move right to 4, 4.3, then DOWN to 4.6, 4.9 and RIGHT to 5.2, 5.5, 5.8, then DOWN to 6.1, 6.4, 6.7 to END   Challenge 2: START: 9.2, RIGHT to 8.7, 8.2, 7.7 then DOWN to 7.2, 6.7, RIGHT to 6.2, 5.7 and DOWN to 5.2, 4.7 and 4.2 to END.