Decimal Sequences

1. Adam is wrapping presents. He wraps 8 presents using 15.75cm of ribbon on each. Use this information to complete the sequence below and find the total length of ribbon used.
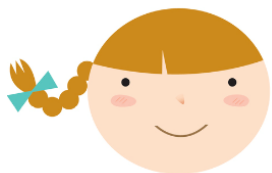

15.75				78.75			

VF
HW/Ext

2. True or false? Lisa's description matches the sequence.

> The rule is subtract 1.48 and the fourth term is 8.38.

11.3	9.84	8.38	6.92	5.46	4	2.54

VF
HW/Ext

3. Find the rules and use them to complete the decimal grid.

1.5	1.8		2.4	2.7
1.53	1.83	2.13		2.73
1.56		2.16	2.46	
1.59	1.89		2.49	2.79
	1.92	2.22		2.82

RPS
HW/Ext

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Homework/Extension – Decimal Sequences – Year 5 Developing

Decimal Sequences

4. Jonny's bicycle tyre gets a puncture when he is 1.488km from home. He can cycle 0.186km before needing to stop and pump it up. Use this information to complete the sequence below.

1.488				0.744				

5. True or false? Toby's description matches the sequence.

> The first term is 4.321 and the sequence increases by 0.080 each time.

3.835	3.916	3.997	4.078	4.159	4.24	4.321

6. Find the rules and use them to complete the decimal grid.

2.255	2.005	1.755		1.255
2.25	2		1.5	
	1.995	1.745		1.245
2.24		1.74	1.49	
	1.985		1.485	

Homework/Extension – Decimal Sequences – Year 5 Expected

Decimal Sequences

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7. Caroline is filling a paddling pool with a hole in it. For every 2.55L bucket of water she adds, 0.752L of water leaks out. Use this information to complete the sequence and find how much water is in the paddling pool when she has added 9 buckets.

1.798			7.192					

⭐ GD

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8. True or false? Robin's description matches the sequence.

The rule is add 1.242 each time. The tenth term will be 2.156.

1.116	2.356	3.596	4.836	6.076	7.316	8.556

⭐ GD

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9. Find the rules and use them to complete the decimal grid.

5.858	5.846		5.822	
5.358		5.334		5.310
4.858	4.846		4.822	4.810
	4.346	4.334		
3.858			3.822	

⭐ GD

Developing

1.

15.75	31.5	47.25	63	78.75	94.5	110.25	126

2. False. The rule is subtract 1.46 and the fourth term is 6.92.

3. The rule across the table is add 0.3 and the rule down the table is add 0.03.

1.5	1.8	2.1	2.4	2.7
1.53	1.83	2.13	2.43	2.73
1.56	1.86	2.16	2.46	2.76
1.59	1.89	2.19	2.49	2.79
1.62	1.92	2.22	2.52	2.82

Expected

4.

1.488	1.302	1.116	0.93	0.744	0.558	0.372	0.186

5. False. The first term is 3.853 and the sequence increases by 0.081 each time.

6. The rule across the table is subtract 0.25 and the rule down the table is subtract 0.005.

2.255	2.005	1.755	1.505	1.255
2.25	2	1.75	1.5	1.25
2.245	1.995	1.745	1.495	1.245
2.24	1.99	1.74	1.49	1.24
2.235	1.985	1.735	1.485	1.235

Greater Depth

7.

1.798	3.596	5.394	7.192	8.99	10.788	12.586	14.384	16.182

8. False. The rule is add 1.24 and the tenth term will be 12.276.

9. The rule across the table is subtract 0.012 and the rule down the table is subtract 0.5.

5.858	5.846	5.834	5.822	5.810
5.358	5.346	5.334	5.322	5.310
4.858	4.846	4.834	4.822	4.810
4.358	4.346	4.334	4.322	4.310
3.858	3.846	3.834	3.822	3.810