

Securing Multiplication Facts: Representing the Seven Times Table Worksheet

Mathematics

Mr Ward



Warm up - Multiple Mystery!

Can you use your knowledge of the 4x multiplication table to identify the multiples of 4



366

64

23

45

940

201

452

53

74

525

6

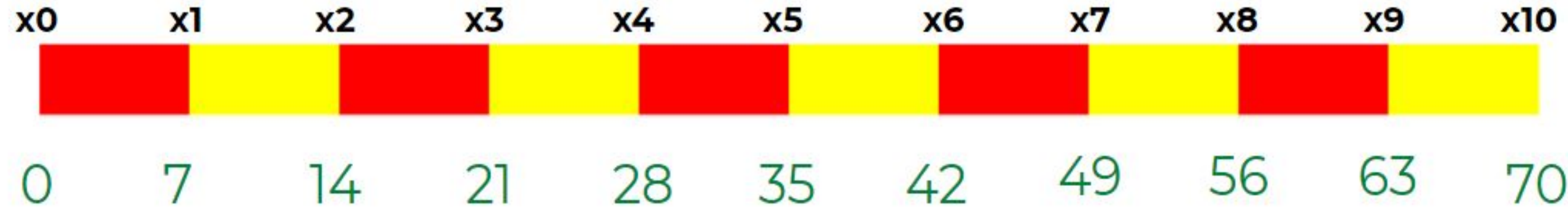
12

738



Exploring patterns in the 7x multiplication table

Do you spot any patterns?

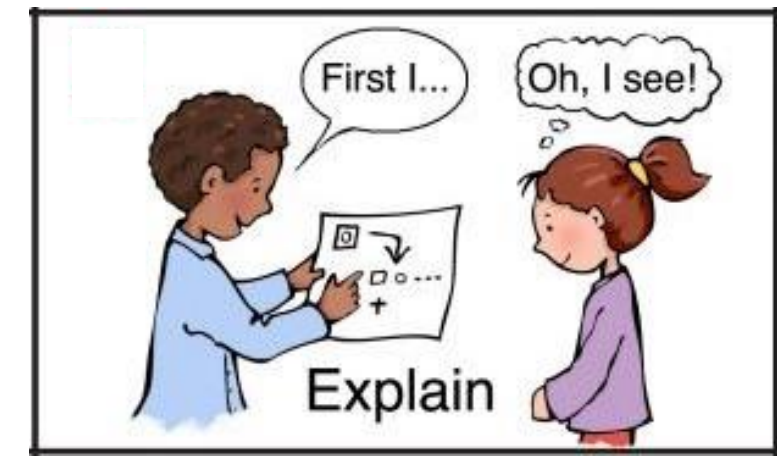


1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



Talk Task - Match the representations

Can you match the multiplications with the representations?



$7 + 7 + 7 + 7$	4×7	7×3	
7 lots of 3	3×7	$3 + 3 + 3 + 3 + 3 + 3 + 3$	$7 + 7 + 7$

	4 groups of 7	7×4	$4 + 4 + 4 + 4 + 4 + 4 + 4$



Representing multiplications

Find different ways to represent the following equations using different abstract equations, drawings, equipment and jottings.



Representations could include:

- **Bar models**
- **Area models**
- **Cuisenaire rods**
- **Arrays**
- **Number sentences**
- **Geoboards**

$$7 \times 6 = 42$$

$$7 \times 7 = 48$$

$$7 \times 8 = 56$$

$$7 \times 9 = 63$$



Challenge Slide

Can you use inverse to show these equations?

How many different ways can you do so?



$$\blacksquare \div \blacksquare = 32$$

$$\blacksquare \div \blacksquare = 76$$

$$\blacksquare \div \blacksquare = 56$$

$$\blacksquare \div \blacksquare = 84$$

$$\blacksquare \div \blacksquare = 64$$

$$\blacksquare \div \blacksquare = 120$$

