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Queen Mary University of London

Explore algorithms, patterns and learn the 5 times table: A seafaring pixel puzzle

Colour in the numbers in the small grid that are in the 5-times table. Fill in the answers to the multiplications. Can you see any patterns in the numbers? Then colour in all the multiples of 5 in the big grid to uncover a picture. Does any pattern about the multiples of 5 you saw give an easier way (algorithm) to find the multiples?

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
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120

1 x 5 =	5 x 1 =
2 x 5 =	5 x 2 =
3 x 5 =	5 x 3 =
4 x 5 =	5 x 4 =
5 x 5 =	5 x 5 =
6 x 5 =	5 x 6 =
7 x 5 =	5 x 7 =
8 x 5 =	5 x 8 =
9 x 5 =	5 x 9 =
10 x 5 =	5 x 10 =
11 x 5 =	5 x 11 =
12 x 5 =	5 x 12 =

22	26	101	2	21	23	69	21	7	1	2	3	4	6	8	9	11	12	13	14
61	17	18	19	21	22	23	24	26	5	10	24	68	12	12	13	16	19	18	16
58	18	92	93	94	91	15	5	50	5	45	40	20	23	82	61	21	28	111	71
76	6	2	12	12	16	40	20	60	10	10	15	15	11	12	13	16	12	19	1
72	19	82	19	17	16	28	78	61	15	15	33	12	1	8	1	2	1	3	1
9	18	14	11	31	32	71	21	2	20	40	81	71	12	21	11	18	16	2	1
79	5	9	18	26	92	79	4	6	30	10	52	21	1	3	6	1	2	5	6
1	20	15	2	3	4	6	7	8	25	30	1	3	8	6	7	1	35	50	2
1	12	30	50	13	14	16	17	18	35	40	2	1	2	3	4	50	40	8	9
21	22	23	35	40	24	21	26	81	60	15	1	1	1	8	15	5	4	6	1
1	2	3	4	10	40	25	20	15	55	30	45	25	35	55	50	13	16	16	2
6	7	8	9	11	12	13	4	1	5	60	57	6	12	21	1	2	3	4	64
1	2	3	4	2	6	7	8	9	11	17	8	9	11	12	13	14	16	17	18

www.cs4fn.org by Lilly age 8 www.teachinglondoncomputing.org

Inspired by the wonderful Multiplication Tables Colouring Books by Hilary McElderry, Tarquin Books (https://www.tarquingroup.com/). Buy them for more multiplication colour-by-number puzzles.

Computer Science activities with a sense of fun: 5 Times Table Pixel Puzzle 1 V1.0 (8 Jan 2017)
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