

Year 4

Multiplicative Fluency 2

Week 9

72 and 81

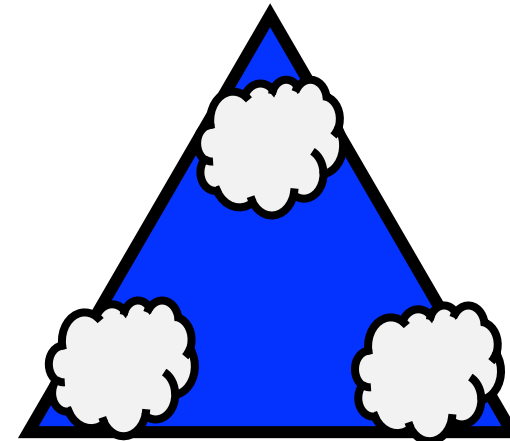
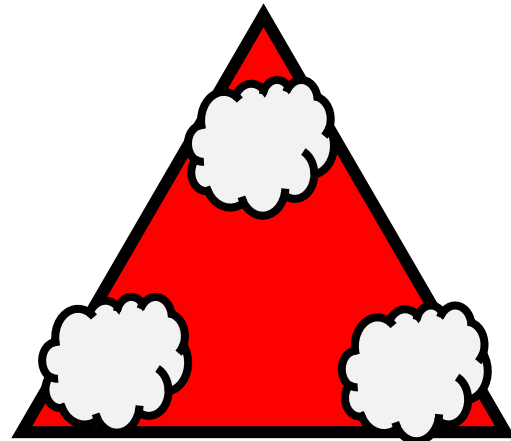
The end of the road!!!

One times table fact for the red row and one for the blue row

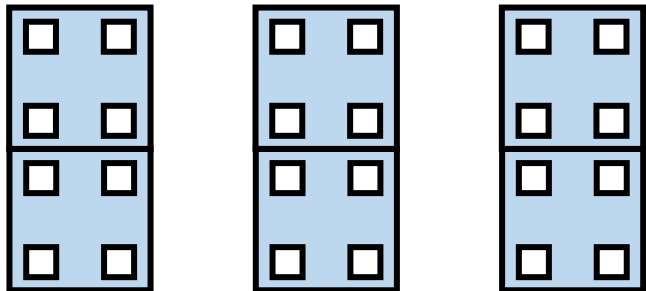
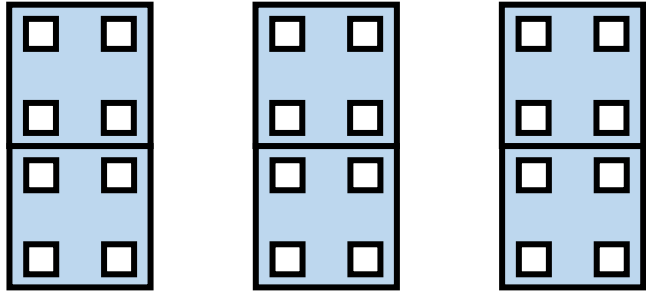
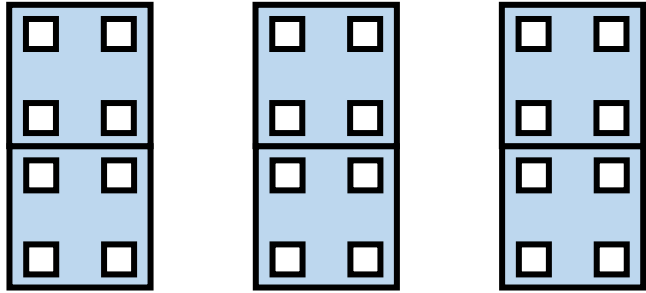
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Can you predict which times table these products are in?

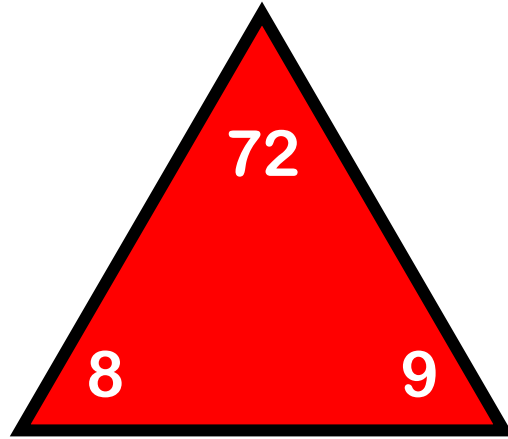
Can you guess any of the factors?



Use a calculator. Try to find the factors for these numbers



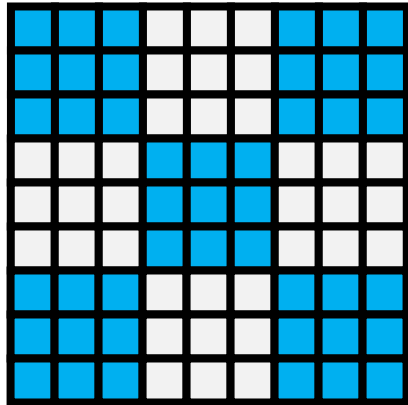
72



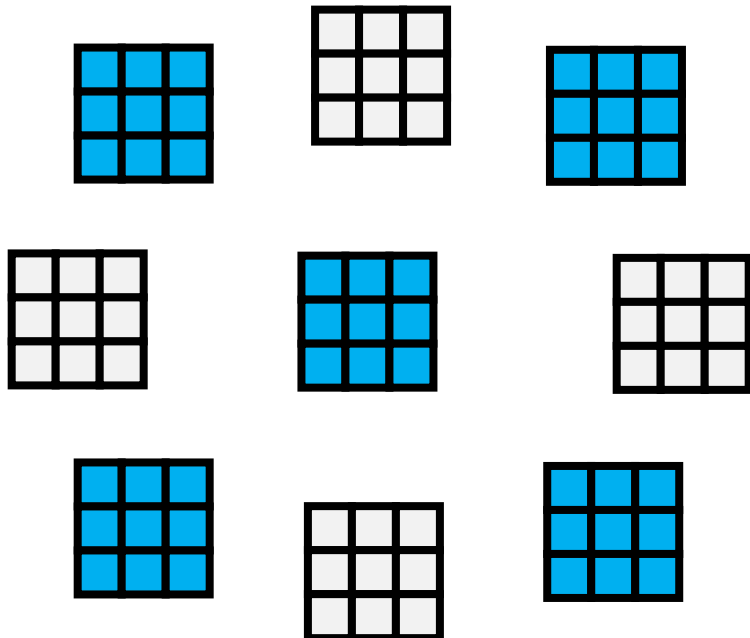
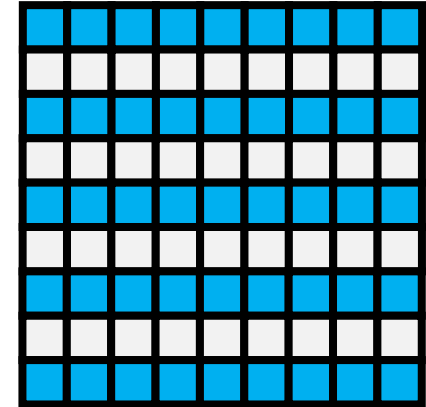
72 is 8 x 9.
What other
factors are
here too?

$$\begin{array}{l} \square \times \square = \boxed{72} \\ \square \times \square = \boxed{72} \\ \boxed{72} \div \square = \square \\ \boxed{72} \div \square = \square \end{array}$$

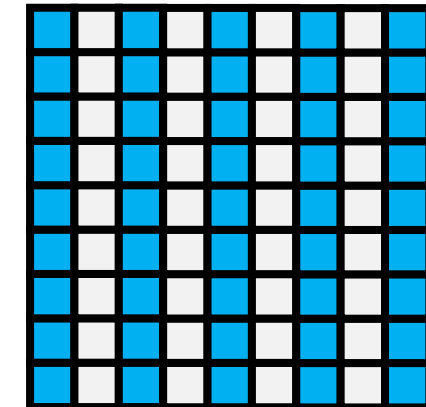
81 is something times itself!



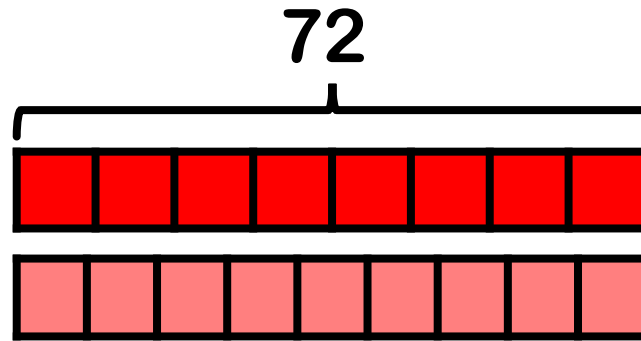
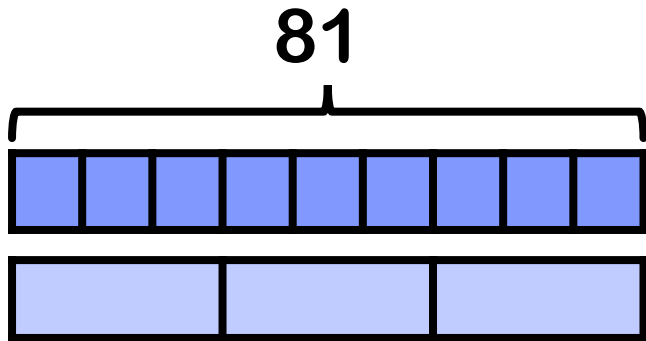
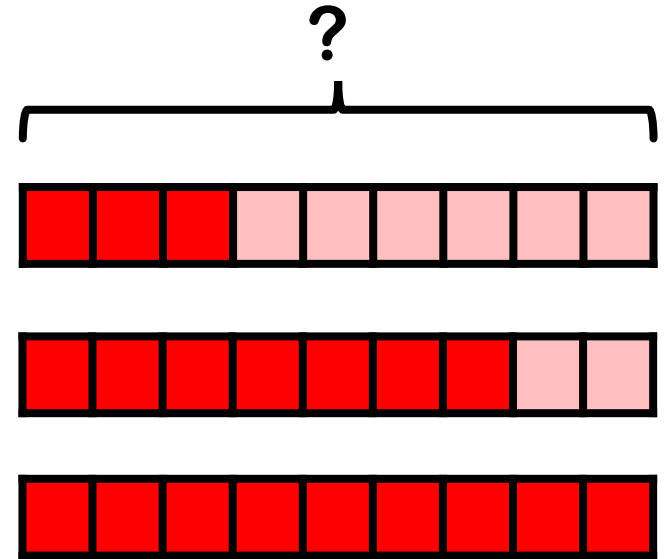
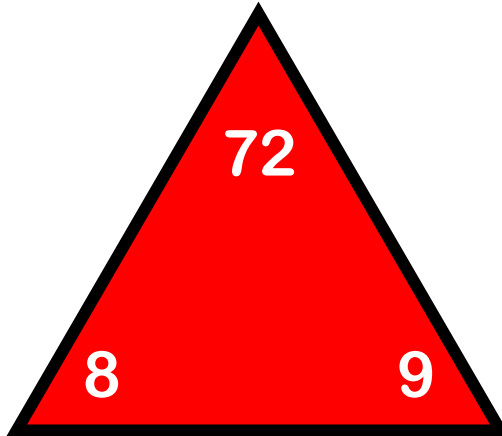
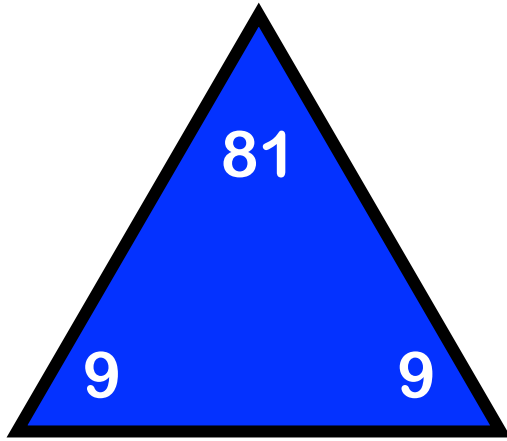
How many ways can you colour 81 to show 9 times 9?



Do you remember any other square numbers like this?



Fraction skills



$\frac{1}{9}$ of 81 is

$\frac{1}{3}$ of 81 is

$\frac{1}{9}$ of 72 is 9

$\frac{1}{9}$ of 72 is 8

$\frac{3}{9}$ of 72 is

$\frac{7}{9}$ of 72 is

$\frac{9}{9}$ of 72 is

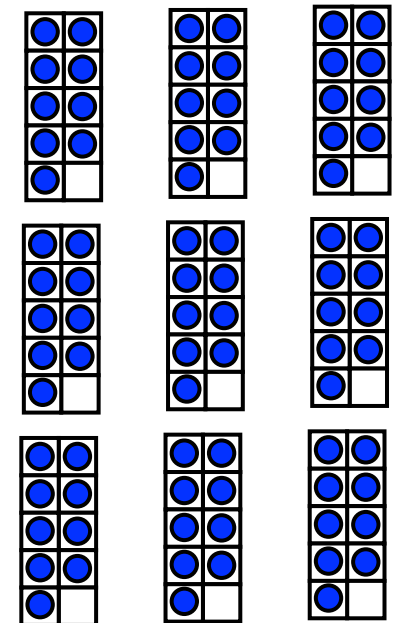
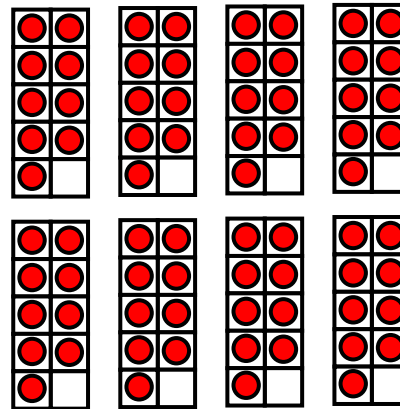
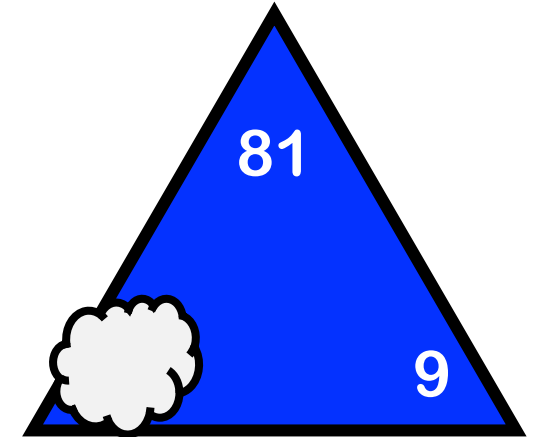
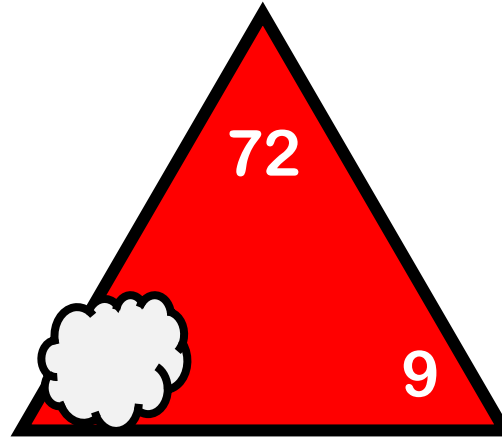
How are they connected?

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
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$$9 \times 2 = 20 - 2$$

$$9 \times 5 = 50 - 5$$

$$9 \times 7 = 70 - 7$$



How can you describe this pattern?