

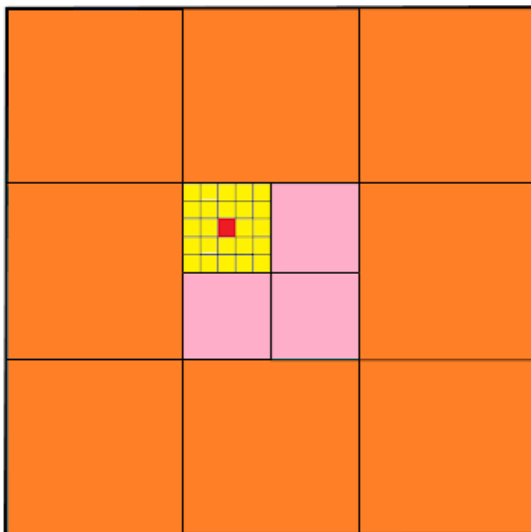
# Solve a Problem 1<sup>st</sup> Feb 2019

## Junior

Isaac brushes his teeth three times a day.  
How many times does he brush his teeth every week?



## All



What fraction of the whole shape is red?

## Challenge

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

Three trios of consecutive numbers less than 100 all of have exactly two pairs of factors.

Two of the trios are highlighted.  
Find the third one!

$$85 = 1 \times 85 \quad 5 \times 17$$

$$86 = 1 \times 86 \quad 2 \times 43$$

$$87 = 1 \times 87 \quad 3 \times 29$$

$$93 = 1 \times 93 \quad 3 \times 31$$

$$94 = 2 \times 47 \quad 1 \times 94$$

$$95 = 1 \times 95 \quad 5 \times 19$$

