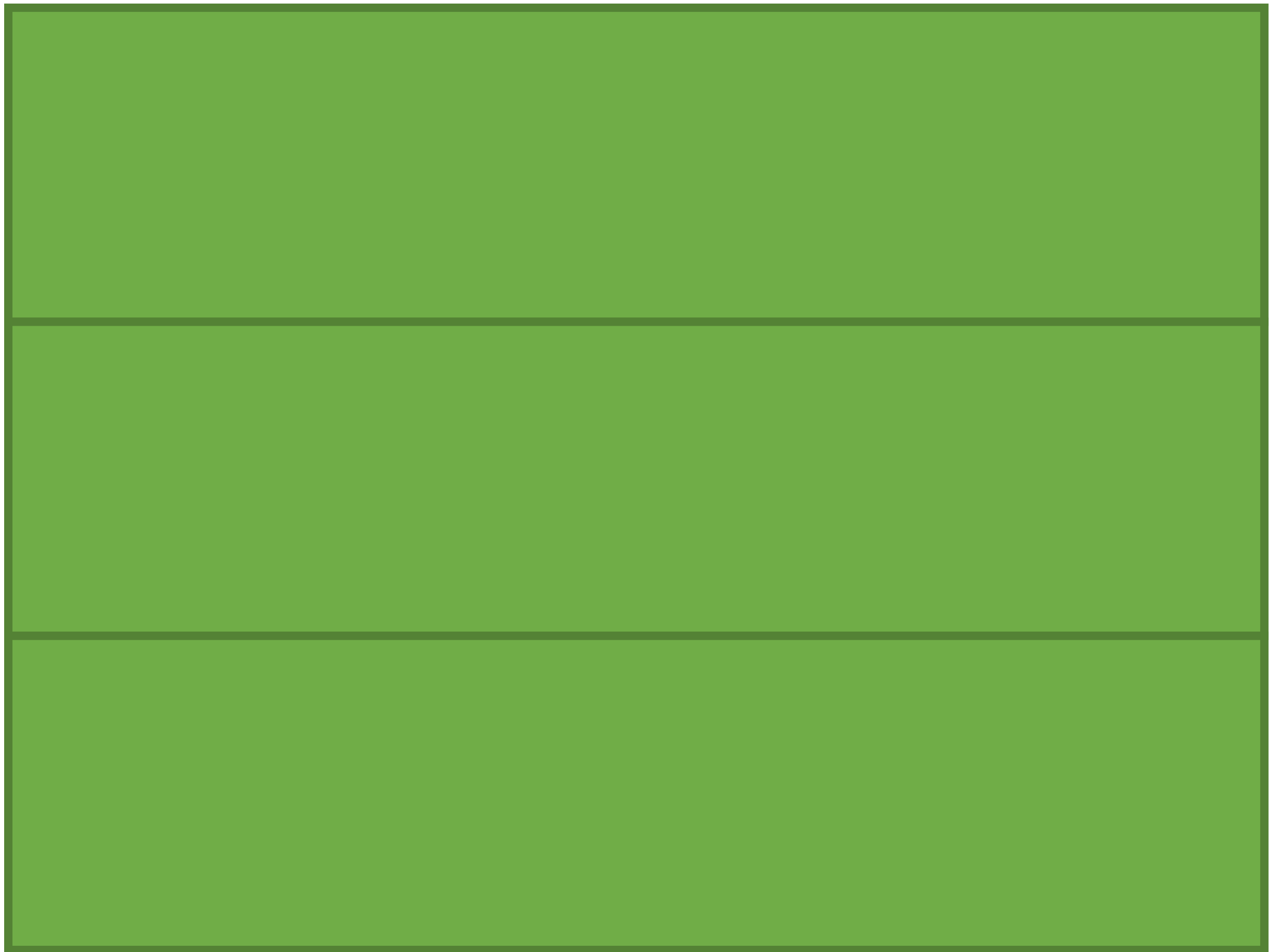
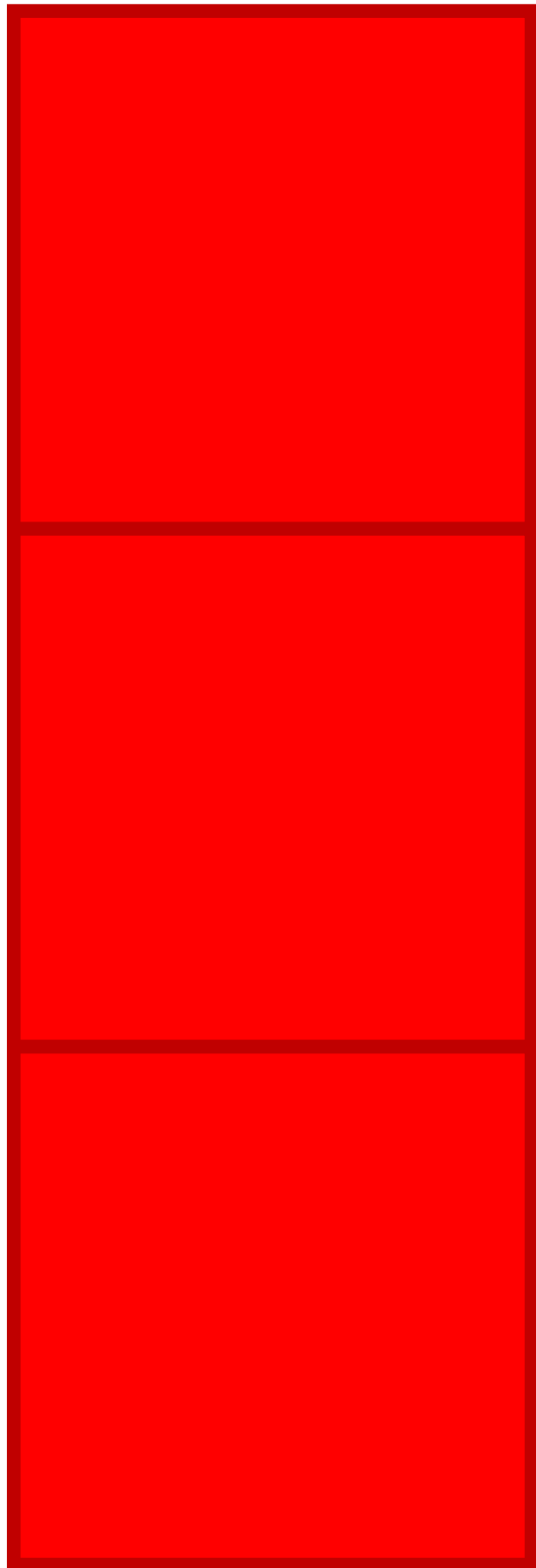


ALGEBRA

TILES

$$3(x - 1) = 3x - 3$$



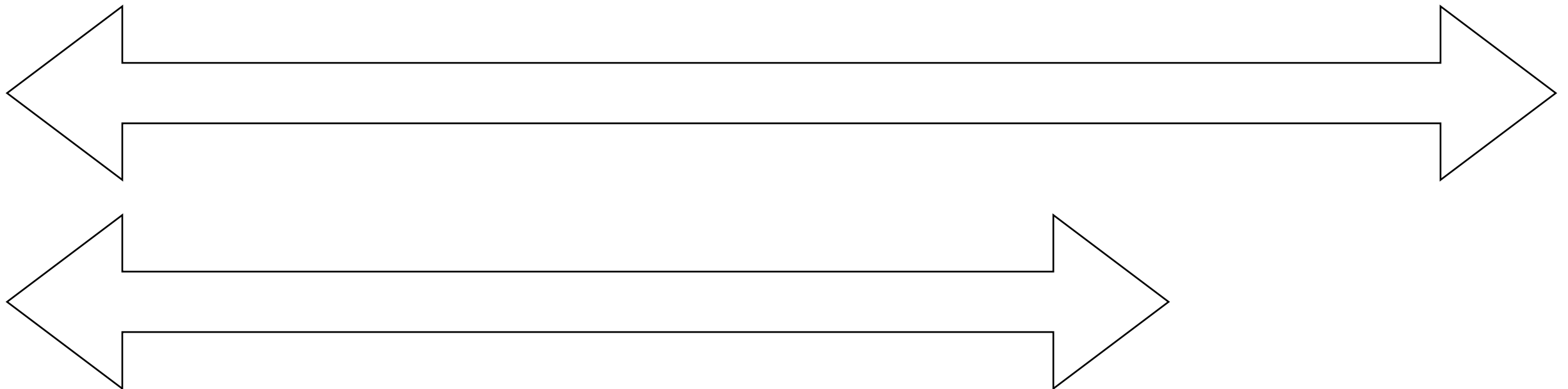


3

$x - 1$

CUISENAIRE

RODS





$$\frac{9}{10} - \frac{4}{5} = \frac{1}{9}$$

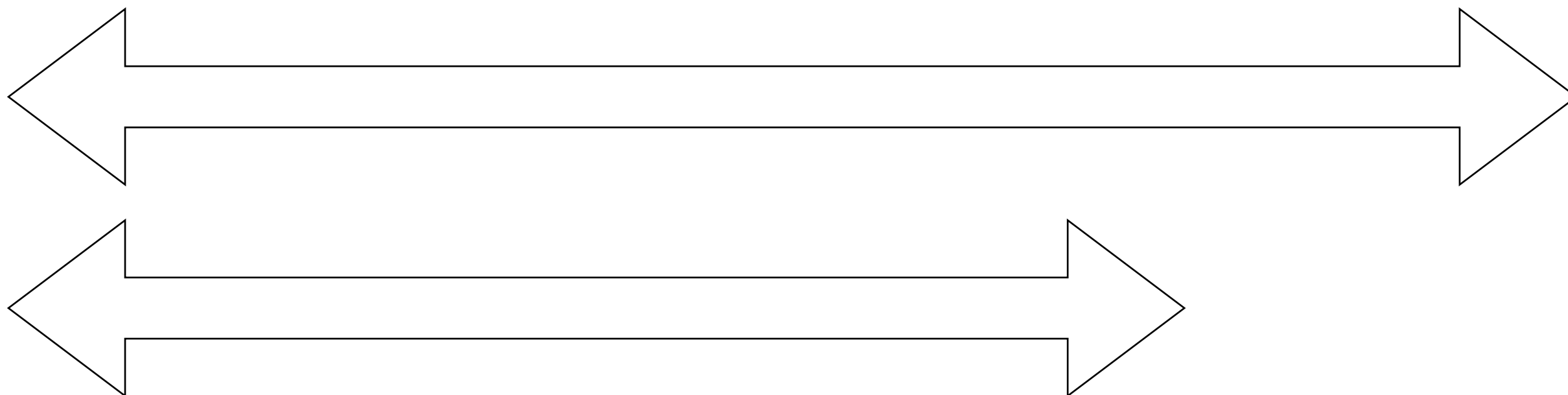
1

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BAR

MODELS



6

6

6

6

6

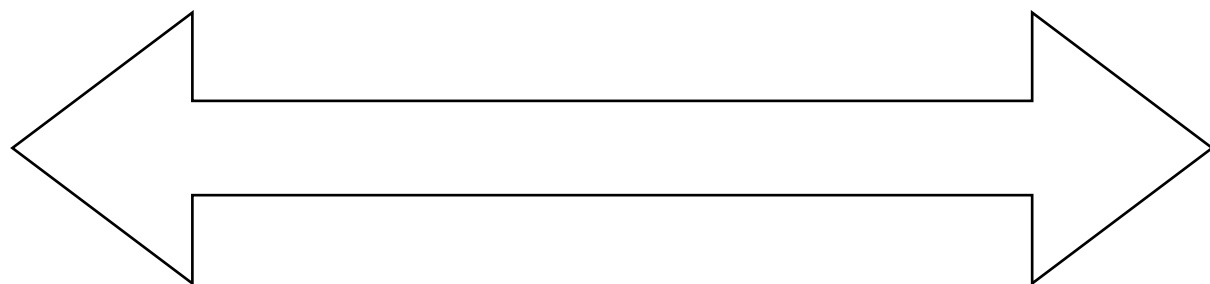
6

6

6

$$8 \text{ parts} = 48$$

$$1 \text{ part} = \frac{48}{8} = 6$$



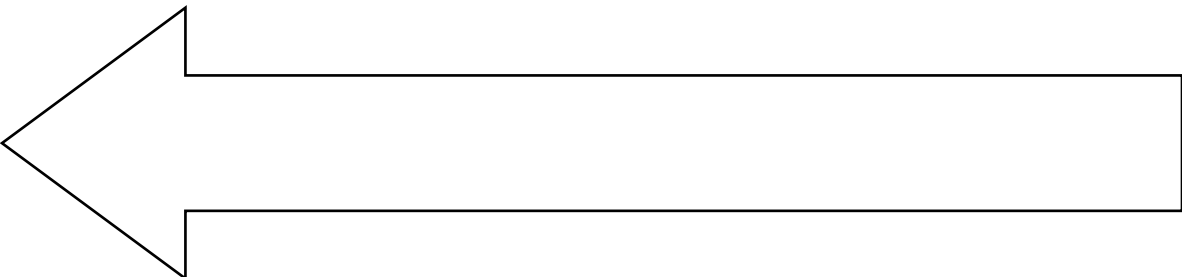
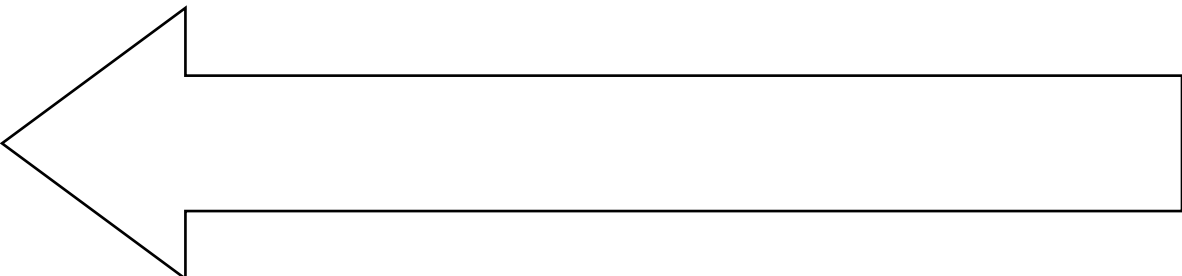
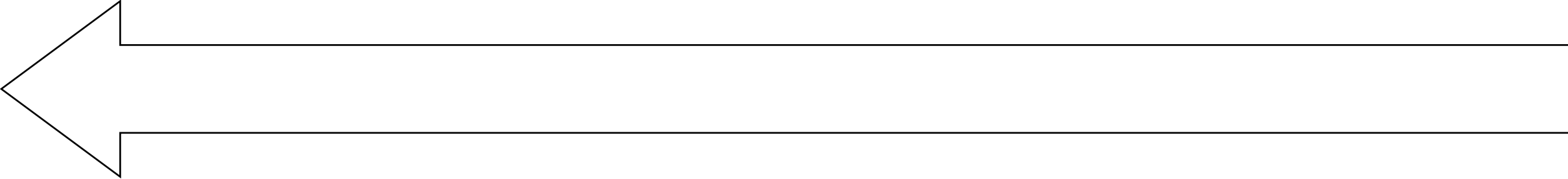
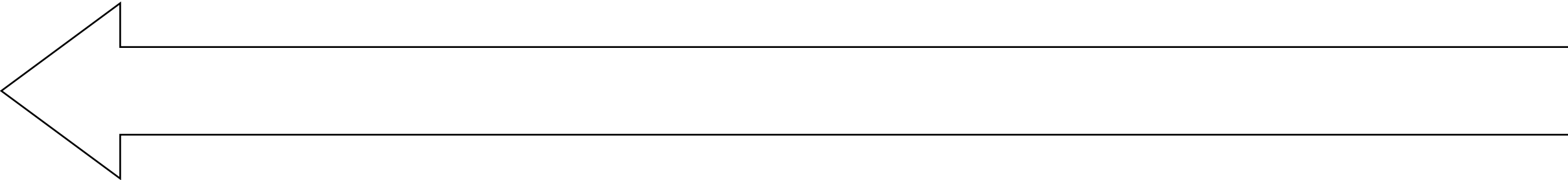
48 in the ratio 1

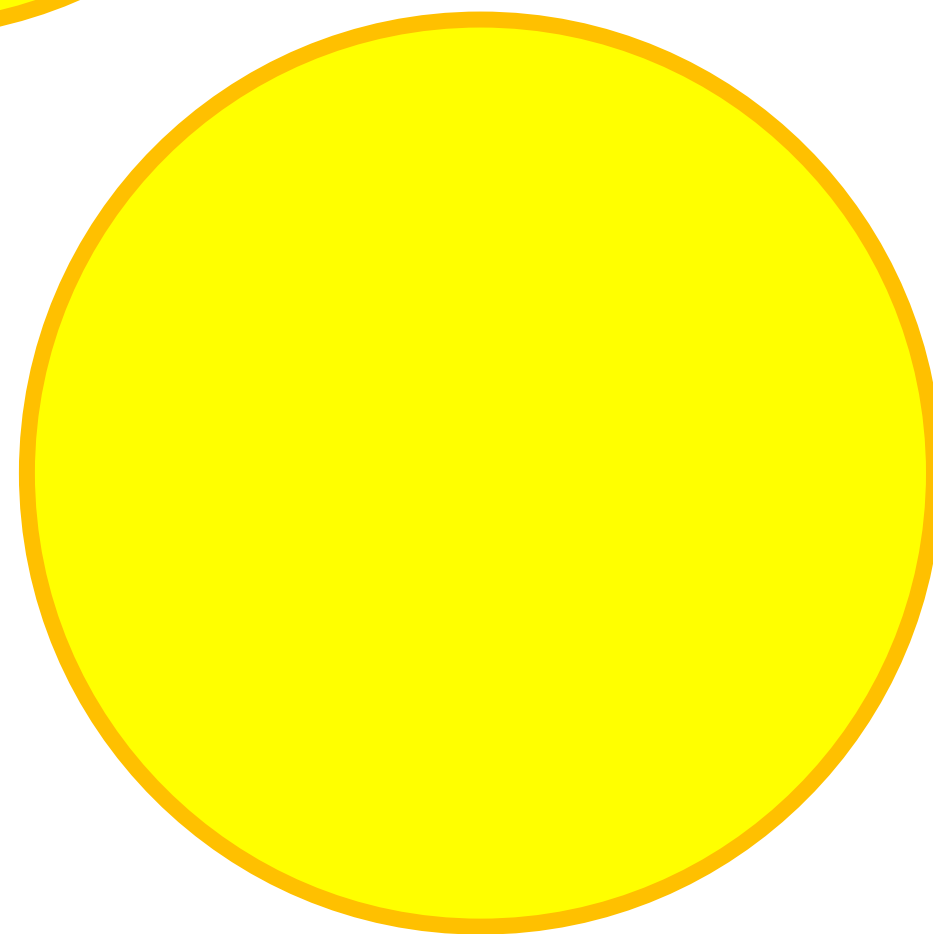
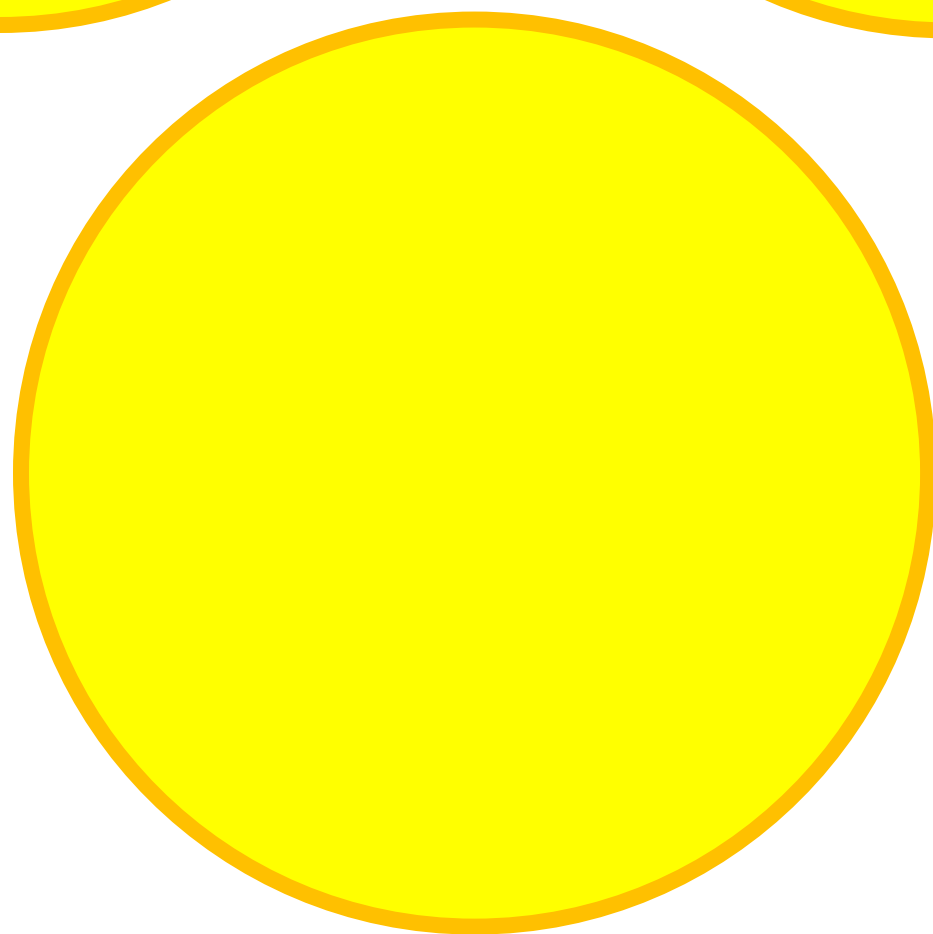
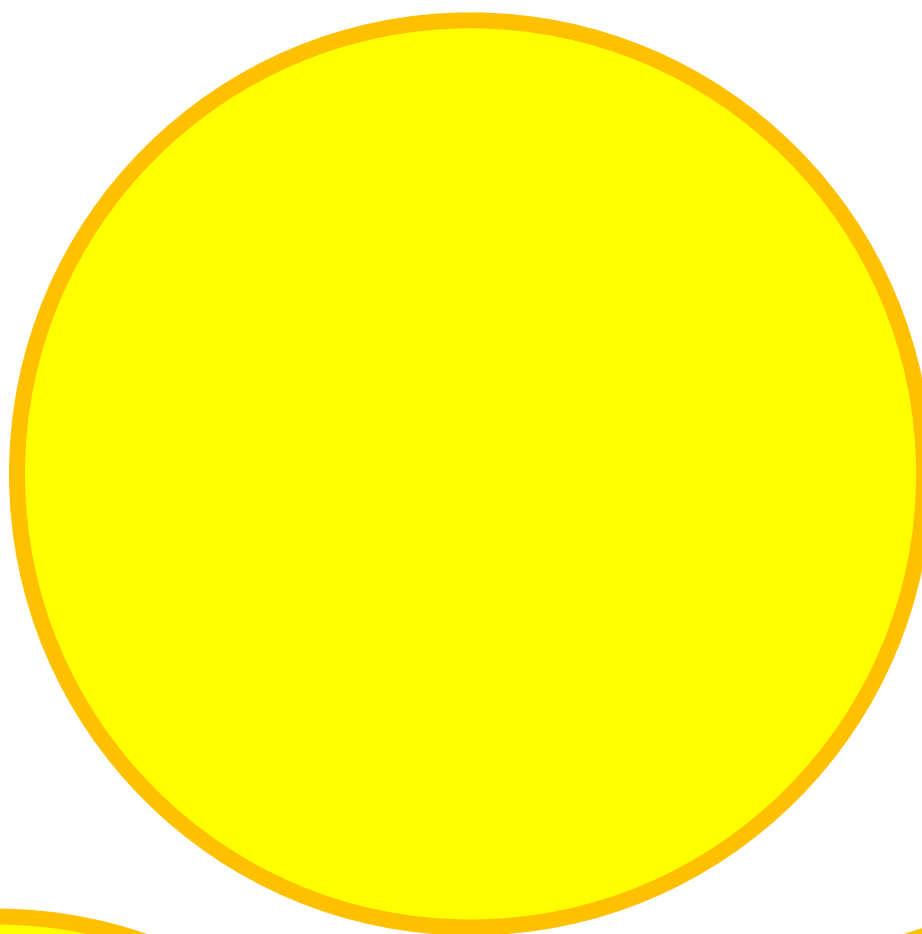
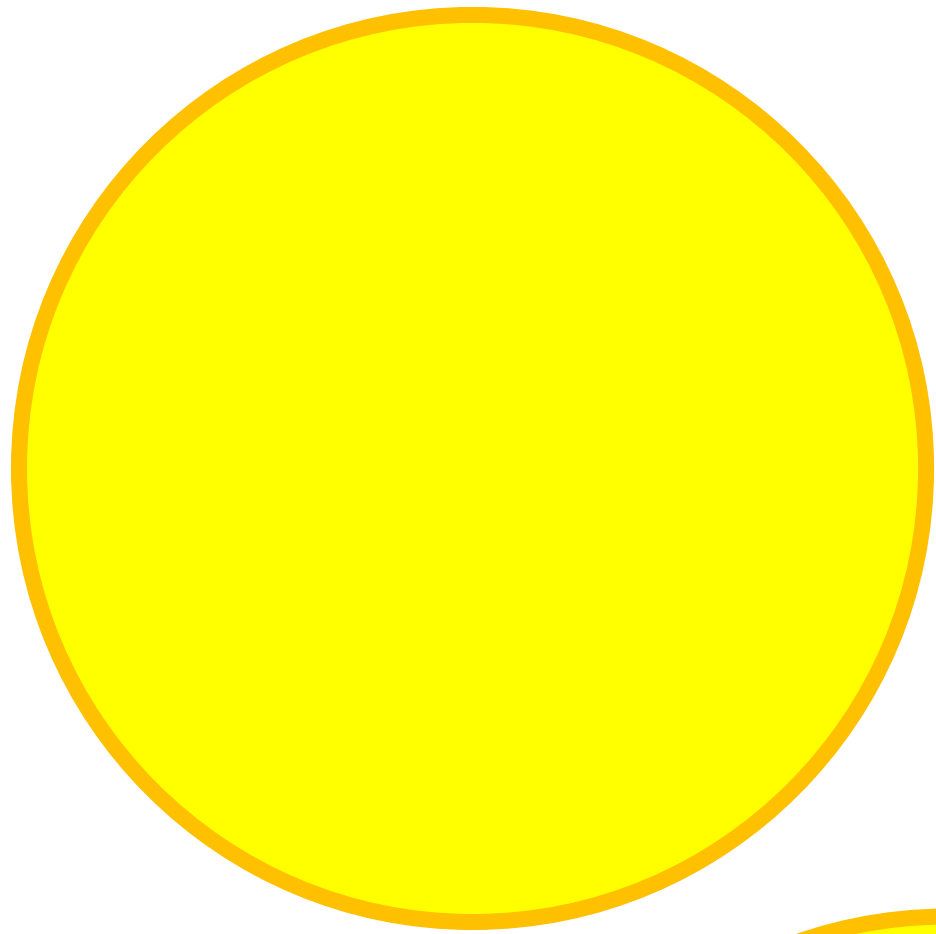
$$: 3 : 4 = 6 : 18 : 24$$

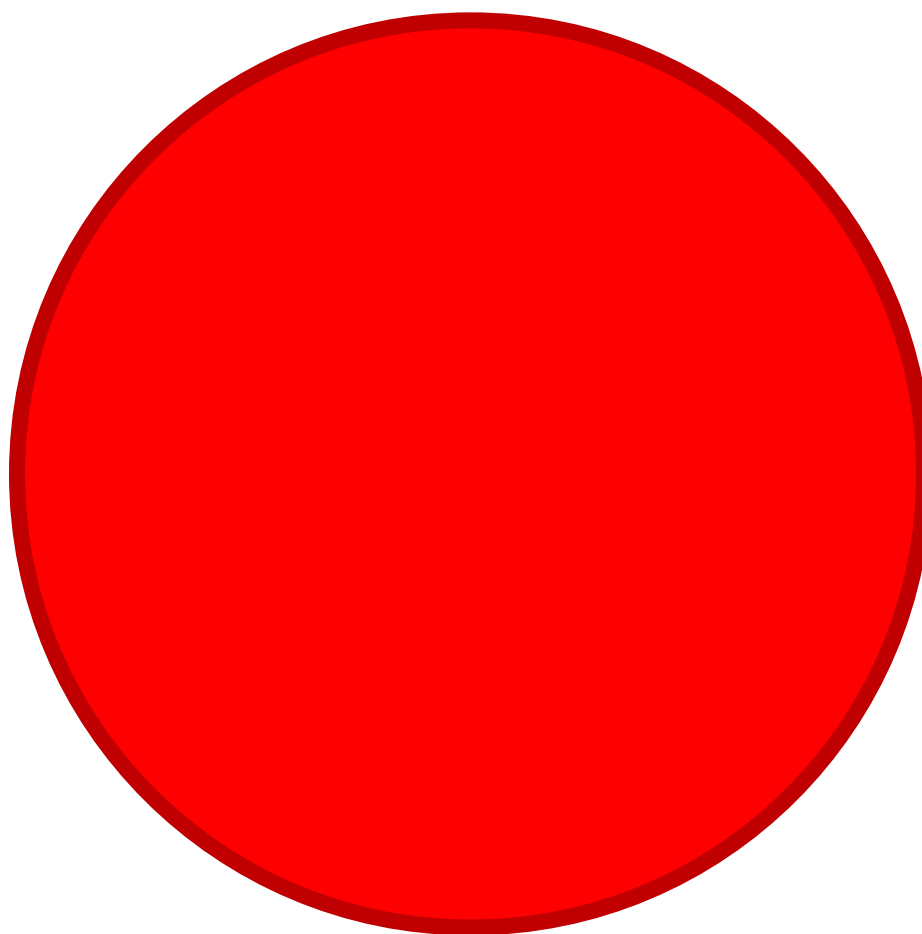
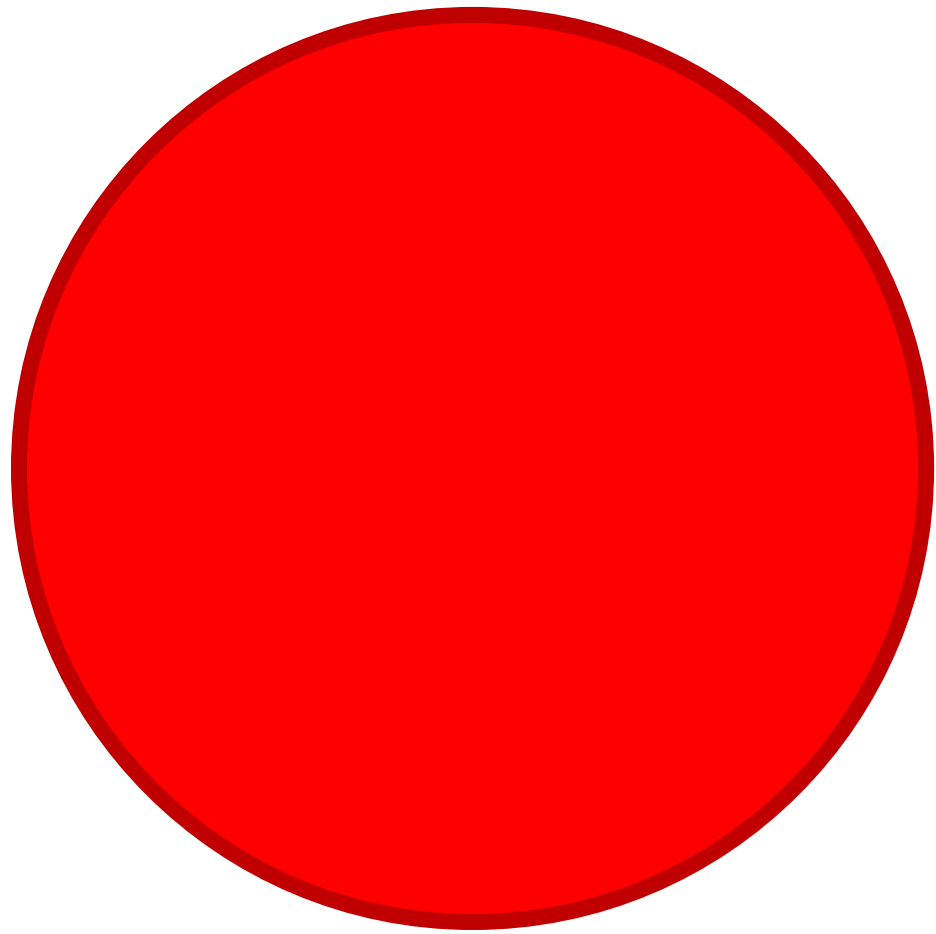
DOUBLE-

SIDED

COUNTERS







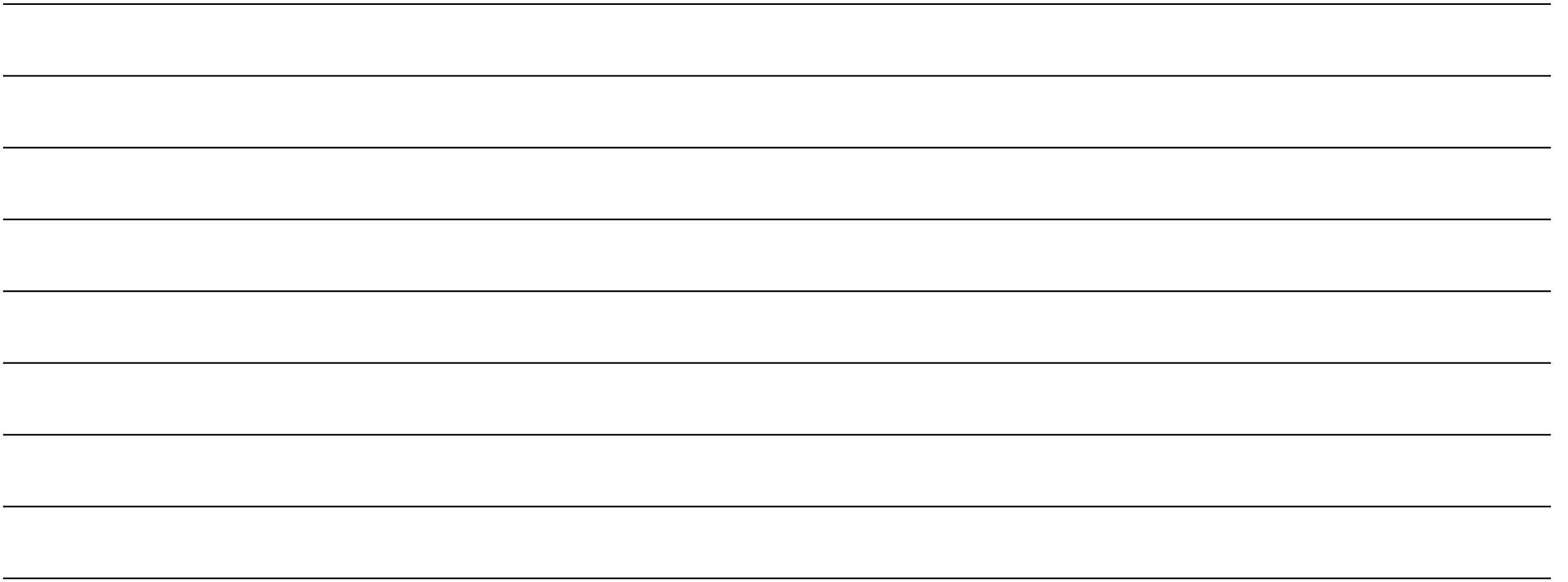
Zero-Pair

$$4 + (-2) = 2$$

PLACE

VALUE

COUNTERS



$$3000 + 200$$

$$+ 10 + 4 = 3214$$

1000

1000

1000

100

100

10



1000s

100s



10s

1s

PRIME

FACTOR

TILES

2

3

5

7

11

13