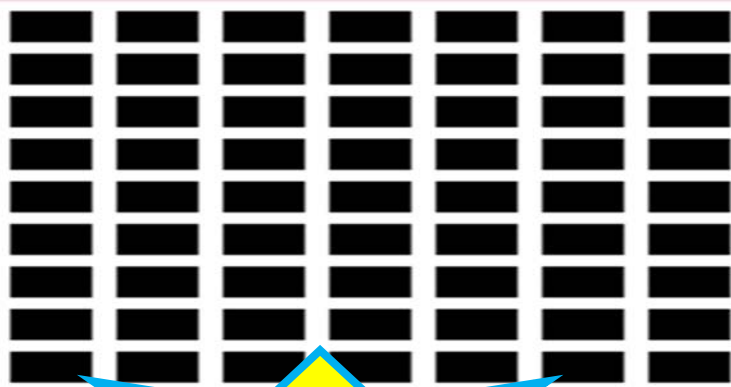


5.7 Finding a Missing Term with Equivalent Fractions



Use the following **3 steps**:

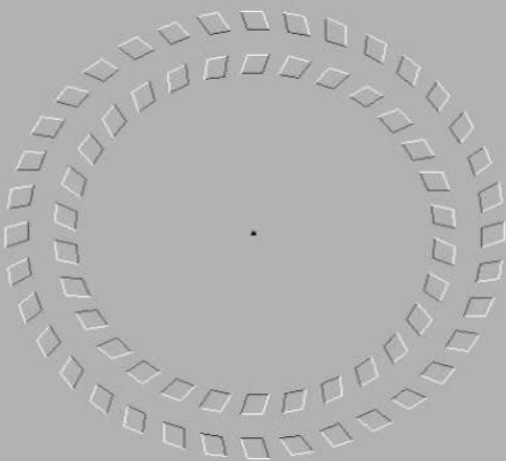
Ex. $\frac{3}{5} = \frac{n}{20}$

Step 1

Multiply the diagonal that has the variable.

$$5 \times n = 5n$$

$$\frac{3}{5} = \frac{n}{20}$$

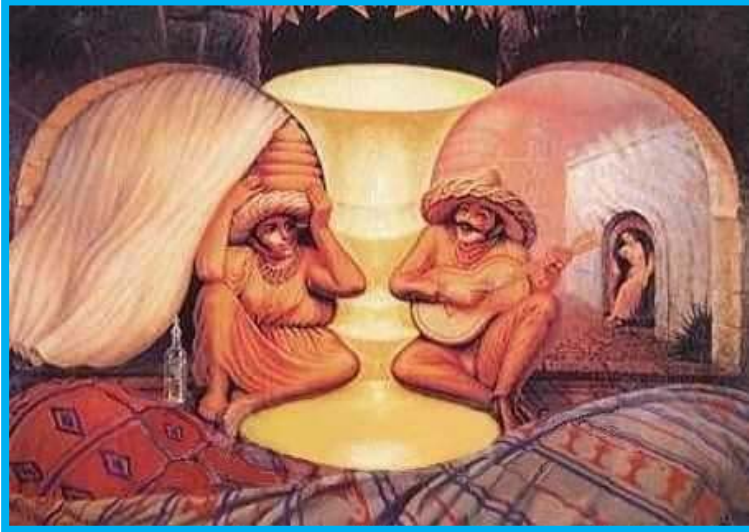


Step 2

Multiply the remaining diagonal.

$$3 \times 20 = 60$$

$$\frac{3}{5} = \frac{n}{20}$$



Problem now becomes:

$$5n = 60$$

Step 2

Divide both sides by the number next to your variable.

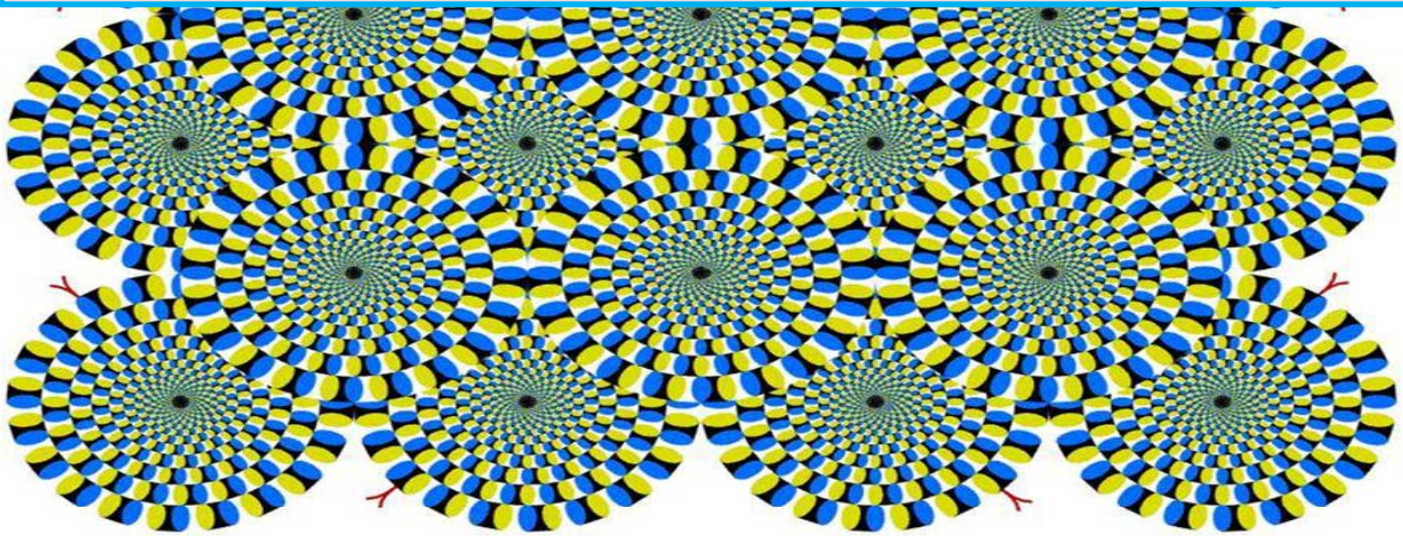
$$\frac{5n}{5} = \frac{60}{5}$$

$$n = 12$$



Example: John hit 8 homeruns in 15 games, at that same rate, how many would you expect him to hit in 75 games?

$$\frac{8}{15} = \frac{n}{75} \Rightarrow \frac{15n}{15} = \frac{600}{15} \Rightarrow n = 40$$



Travel (miles)	8	=	<i>n</i>
Total (days)	25	=	400

25 times n = 8 x 400

25n=3200

Divide both by 25

n=128