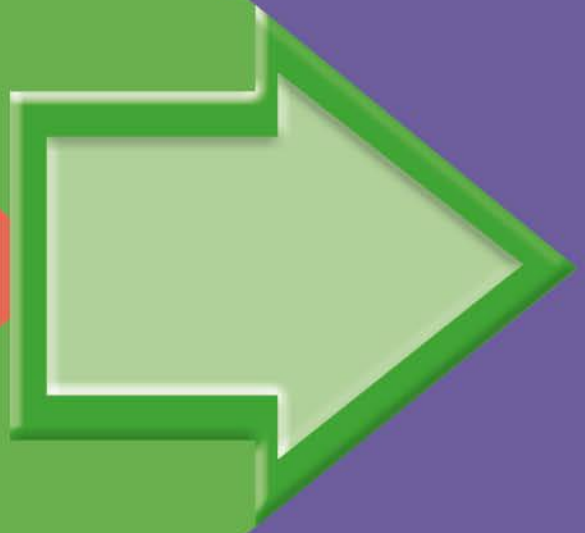
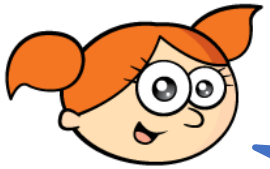
EFFICIENT MULTIPLICATION



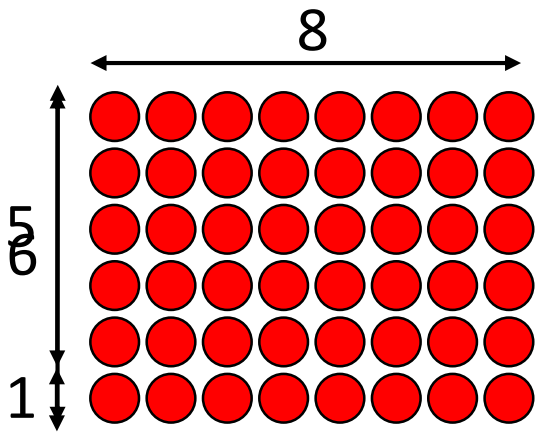
White Rose Maths

$6 \times 8 = \boxed{48}$

What methods could you use to calculate 6×8 if you did not know the answer?



I partitioned 6 into 5 and 1



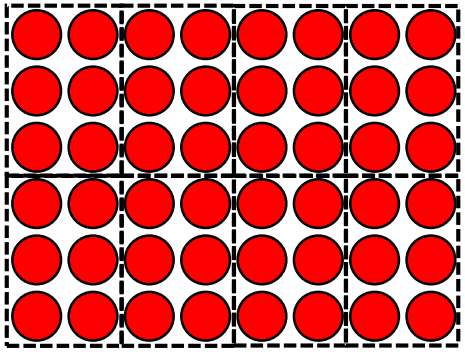
$6 \times 8 = \boxed{48}$

What methods could you use to calculate 6×8 if you did not know the answer?

$6 \times 8 = 2 \times 3 \times 8$

Double 24 is 48

2×3



$3 \times 8 = 24$

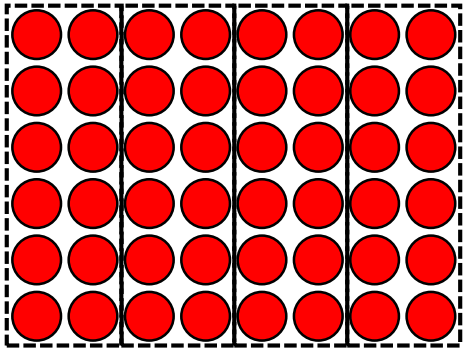
$3 \times 8 = 24$

$6 \times 8 = \boxed{48}$

What methods could you use to calculate 6×8 if you did not know the answer?

$6 \times 8 = 6 \times 2 \times 4$

6×2



$6 \times 2 \times 4$

$12 \times 4 = 48$

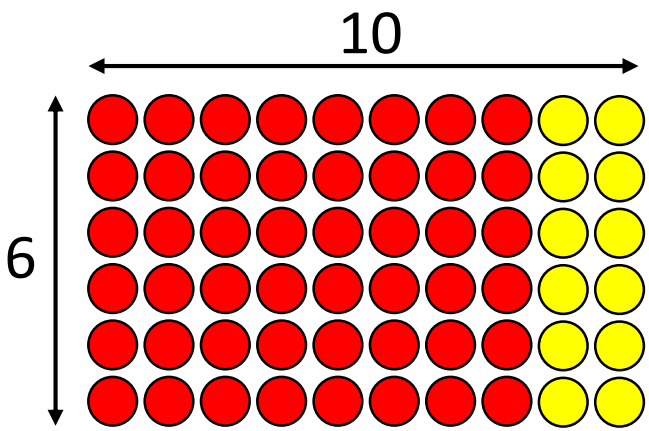
$6 \times 2 \times 4$

$24 \times 2 = 48$

$6 \times 8 = \boxed{48}$

What methods could you use to calculate 6×8 if you did not know the answer?

I did 6×10 then subtracted 12



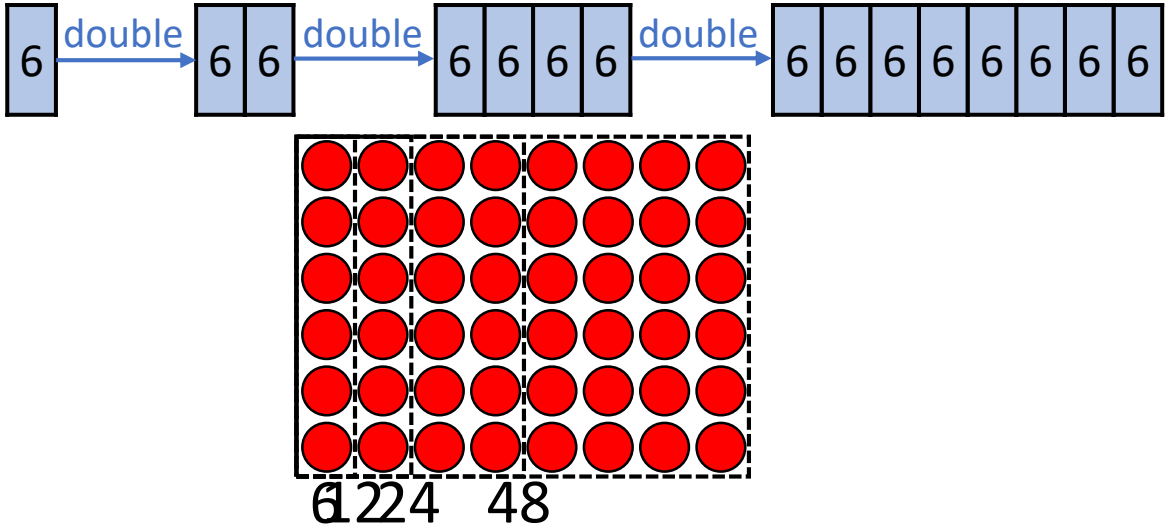
$6 \times 10 = 60$

$60 - 12 = 48$

$6 \times 8 = \boxed{48}$

What methods could you use to calculate 6×8 if you did not know the answer?

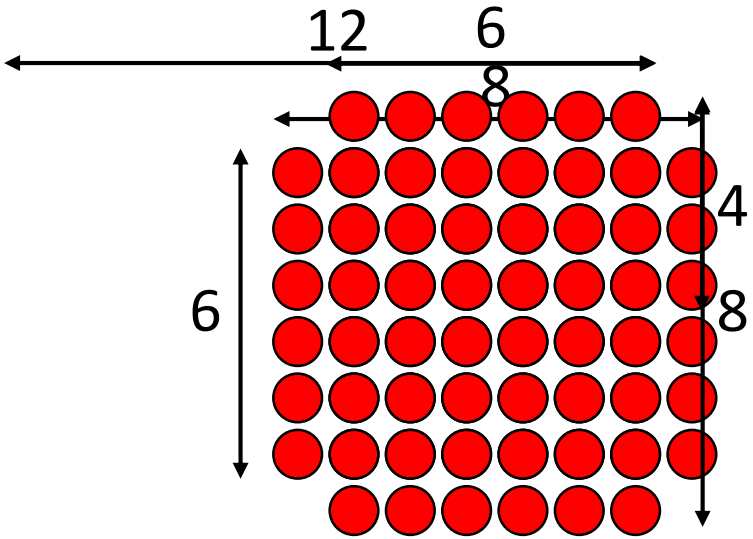
Double, then double, then double again



$$6 \times 8 = \boxed{48}$$

What methods could you use to calculate 6×8 if you did not know the answer?

If you double one factor and halve one factor the product stays the same



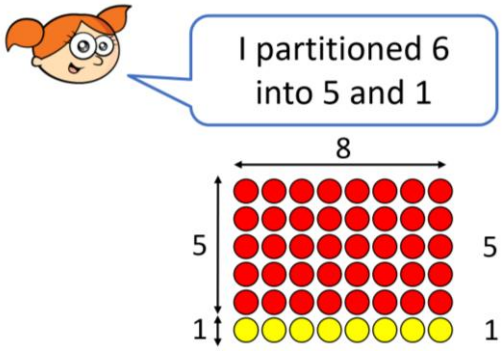
6×8

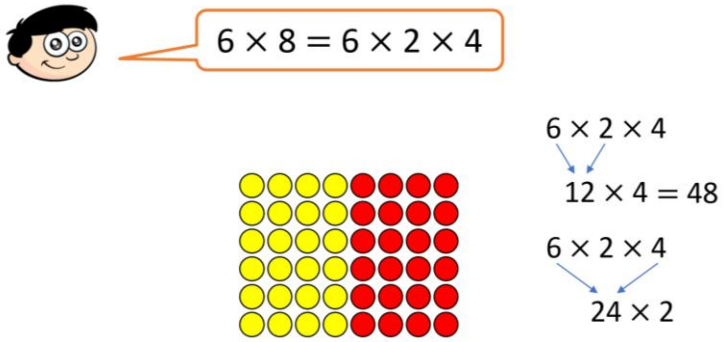
12×4

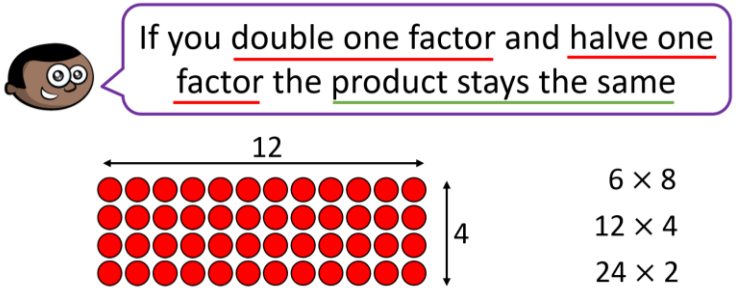
24×2

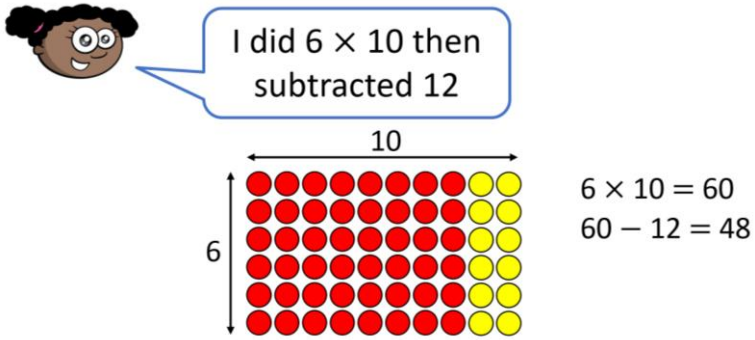
$$5 \times 28 = \square$$

Use one of these methods to solve the equation.



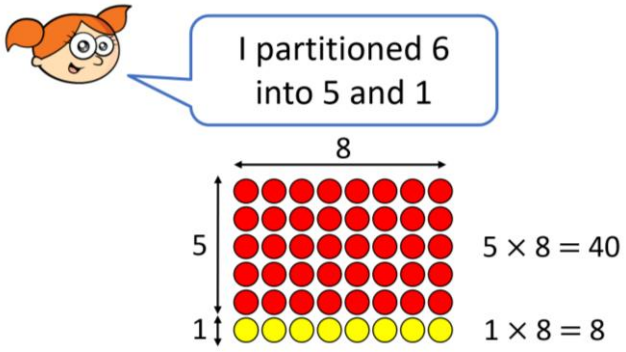






$$5 \times 28 = \boxed{140}$$

$$20 \quad 8$$



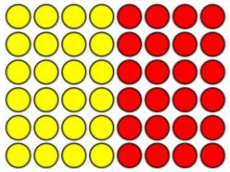
$$5 \times 20 = 100$$

$$5 \times 8 = 40$$

$$100 + 40 = 140$$

$$5 \times 28 = \boxed{140}$$

$6 \times 8 = 6 \times 2 \times 4$



$6 \times 2 \times 4$

$12 \times 4 = 48$

$6 \times 2 \times 4$

24×2

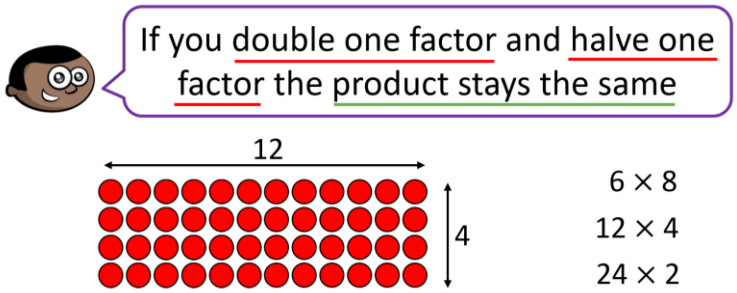
$5 \times 2 \times 14$

$10 \times 14 = 140$

$5 \times 7 \times 4$

$20 \times 7 = 140$

$$5 \times 28 = \boxed{140}$$



5×28

10×14

6×15

$\div 3$ $\times 3$

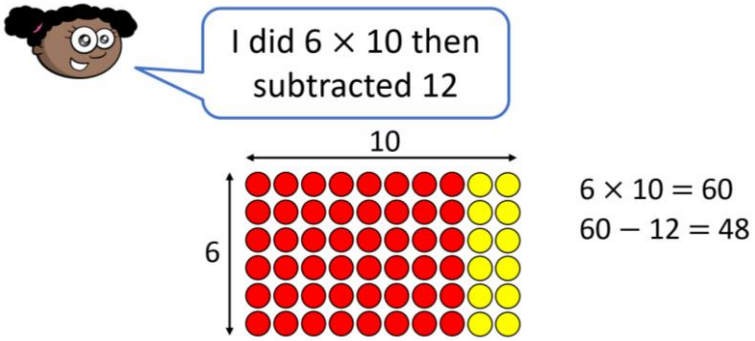
2×45

6×15

$\div 2$ $\times 2$

3×30

$$5 \times 28 = \boxed{140}$$

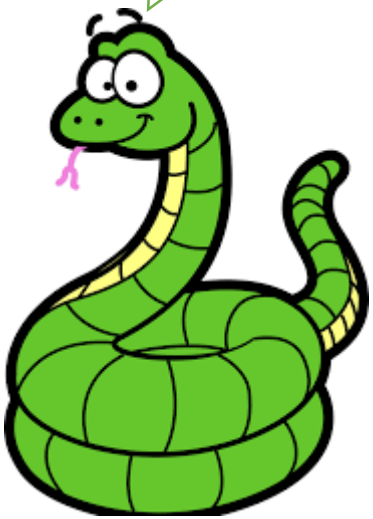


$$5 \times 30 = 150$$

$$5 \times 2 = 10$$

$$150 - 10 = 140$$

Use the methods that you have just learnt to solve the problems on the worksheet. Refer back to the slides if you get stuck. Find a method that works for you!



You might find that different methods are more efficient for different calculations!