

<https://vimeo.com/480761847>

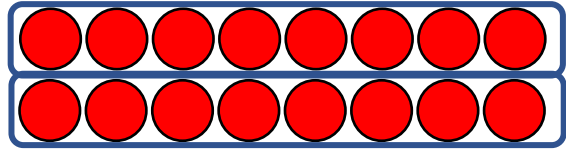
DIVIDE BY 8



GET READY



Here is an 8 by 2 array



$$2 \times 8 = 16$$

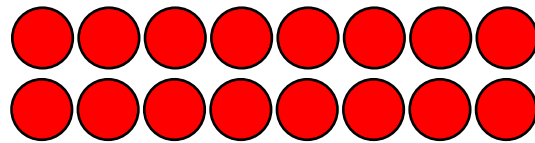
$$8 \times 2 = 16$$

$$16 \div 8 = 2$$

$$16 \div 2 = 8$$

- 1) Draw an 8 by 4 array
- 2) How many counters are there in your array?
- 3) Write 2 multiplication equations to match your array.
- 4) Write 2 division equations to match your array.

Here is an 8 by 2 array



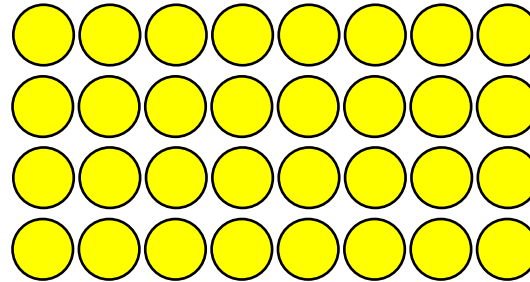
$$2 \times 8 = 16$$

$$8 \times 2 = 16$$

$$16 \div 8 = 2$$

$$16 \div 2 = 8$$

1) Draw an 8 by 4 array



2) How many counters are there in your array? **32**

3) Write 2 multiplication equations to match your array.

$$4 \times 8 = 32 \quad 8 \times 4 = 32$$


4) Write 2 division equations to match your array.

$$32 \div 8 = 4 \quad 32 \div 4 = 8$$

LET'S LEARN



Here are 24 flowers.

Have a think 

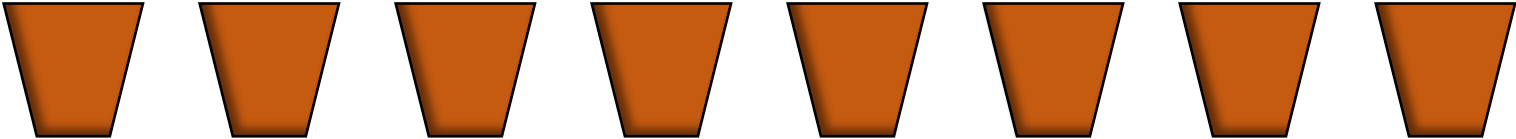


How could we divide the flowers by 8?

We could share the flowers equally between 8 pots.

We could group the flowers into pots of 8

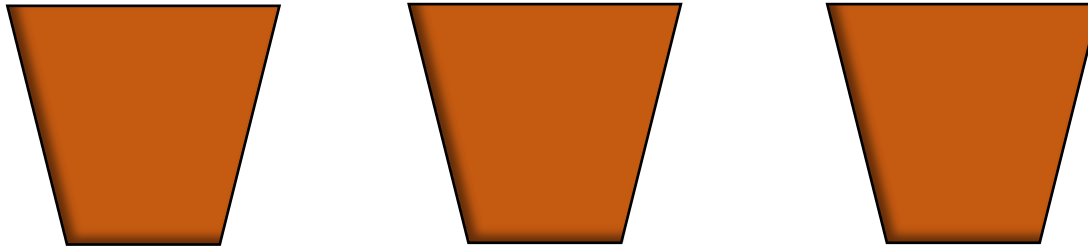
The flowers are shared equally between 8 pots.
How many flowers will be in each pot?



There are 3 flowers in each pot.

$$24 \div 8 = 3$$

The flowers are grouped into pots of 8
How many pots can we fill?



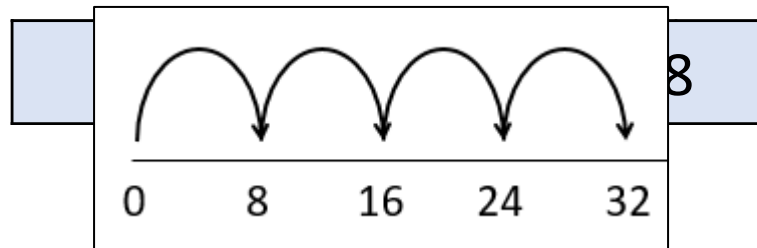
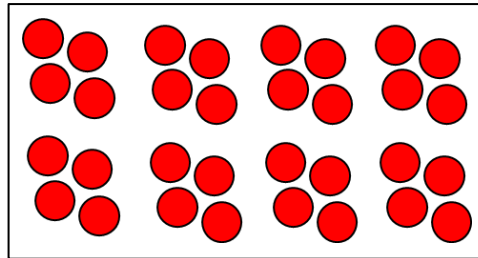
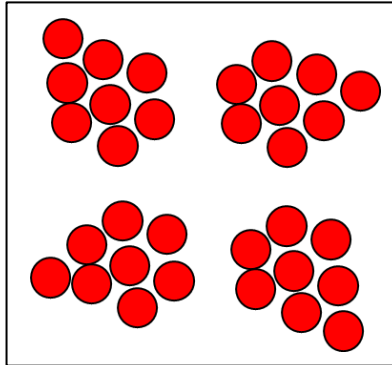
There are 3 pots of 8

$$24 \div 8 = 3$$


Shared into 8
equal groups

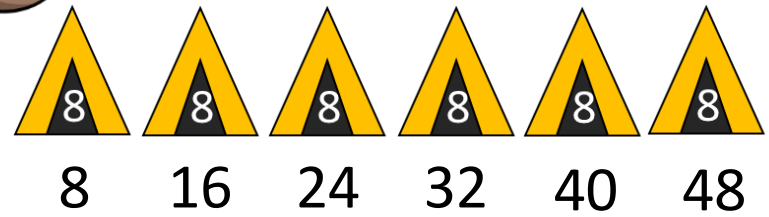
$$32 \div 8$$

Grouped
into 8s

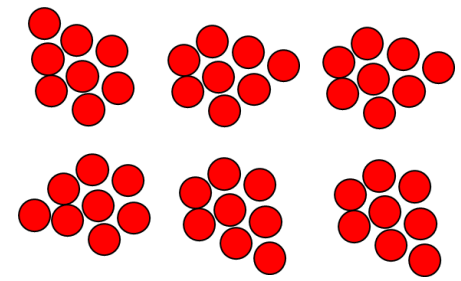
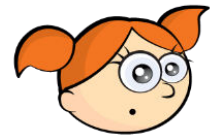
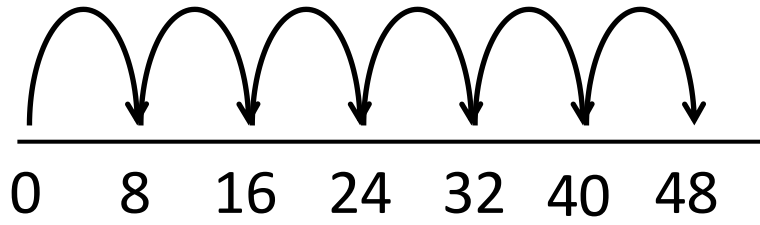


48 children go camping.
Each tent holds 8 children.
How many tents are needed?

Have a think 



- 1 tent → 8 children
- 2 tents → 16 children
- 3 tents → 24 children
- 4 tents → 32 children
- 5 tents → 40 children
- 6 tents → 48 children




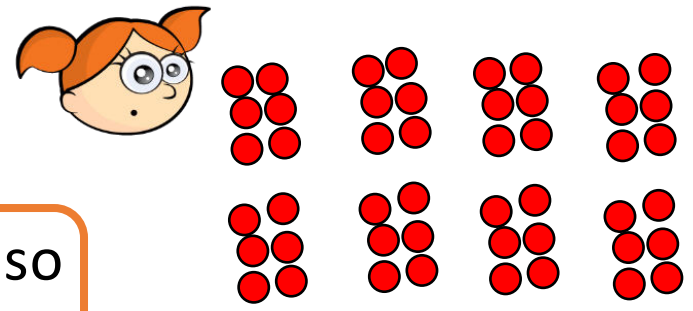
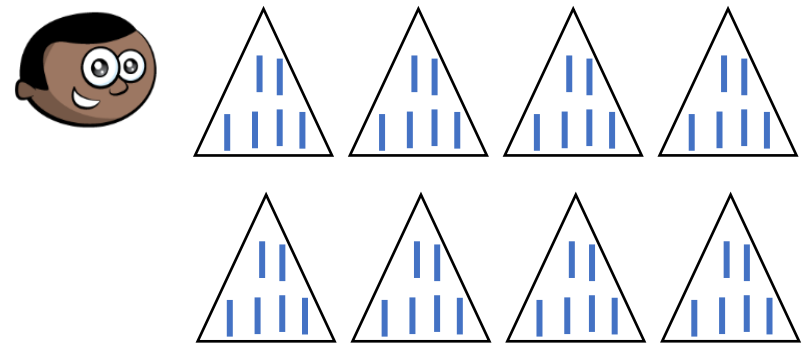
How could you represent this problem?


48 children go camping.

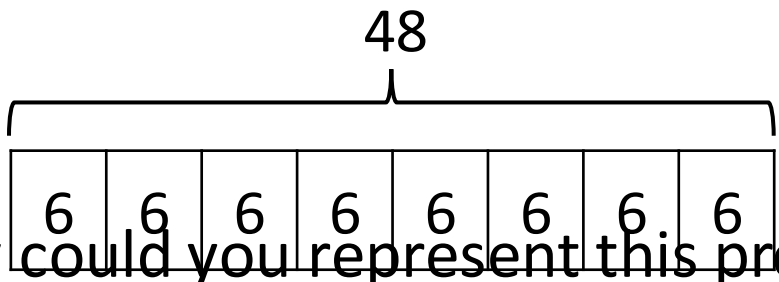
There are 8 tents.

How many children will sleep in each tent?

Have a think 



 I know that $6 \times 8 = 48$ so
 $48 \div 8$ must be 6



How could you represent this problem?



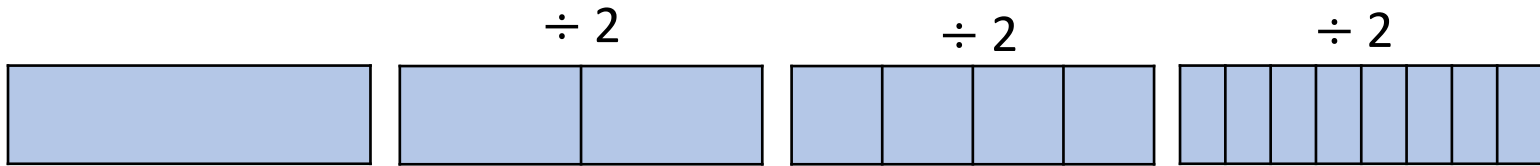
To divide by 8, take the number you are dividing and divide it by 2 four times.

$$80 \div 8 = 10$$

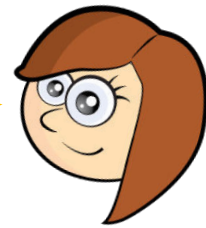
Have a think



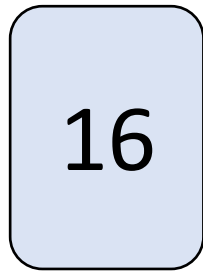
$$80 \xrightarrow{\div 2} 40 \xrightarrow{\div 2} 20 \xrightarrow{\div 2} 10$$



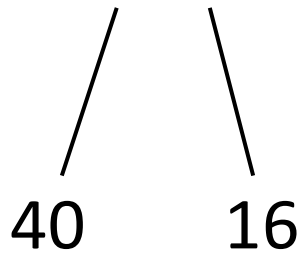
I think you only need to divide by 2 three times.



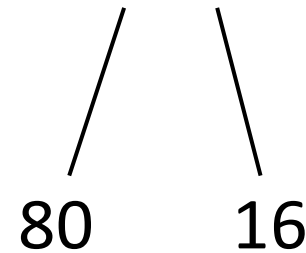
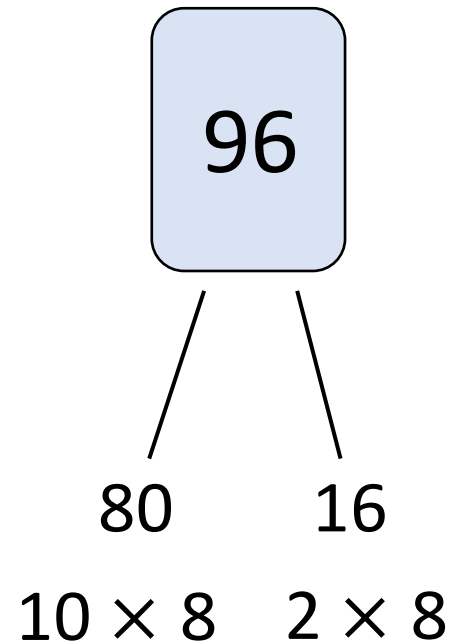
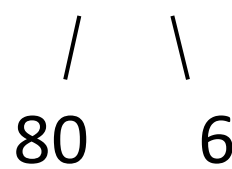
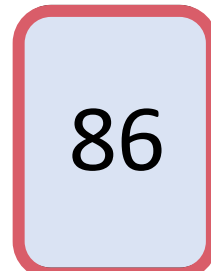
One of these numbers will not divide exactly by 8




$$2 \times 8$$



$$5 \times 8 \quad 2 \times 8$$



$$10 \times 8 \quad 2 \times 8$$

Have a think 

YOUR TURN

Have a go at the questions
on the worksheet

