

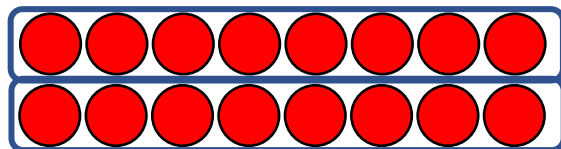
DIVIDE BY 8



GET READY



Here is an 8 by 2 array

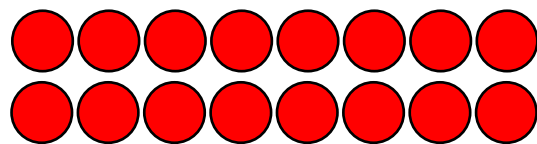


$$2 \times 8 = 16 \quad 8 \times 2 = 16$$

$$16 \div 8 = 2 \quad 16 \div 2 = 8$$

- 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.

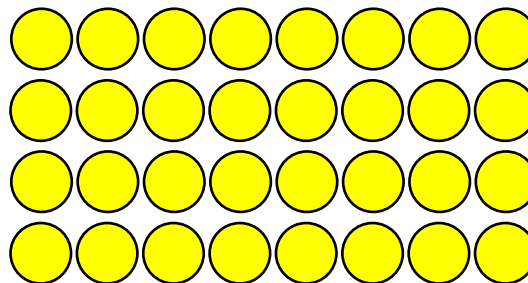
Here is an 8 by 2 array



$$2 \times 8 = 16 \quad 8 \times 2 = 16$$

$$16 \div 8 = 2 \quad 16 \div 2 = 8$$

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

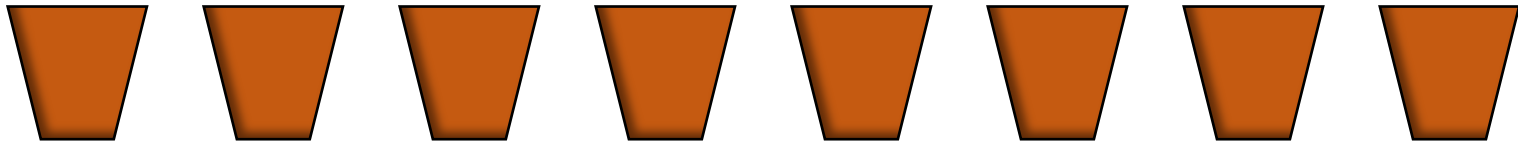


How could we divide the flowers by 8?

We could share the
flowers equally
between 8 pots.

We could group the
flowers into pots of
8

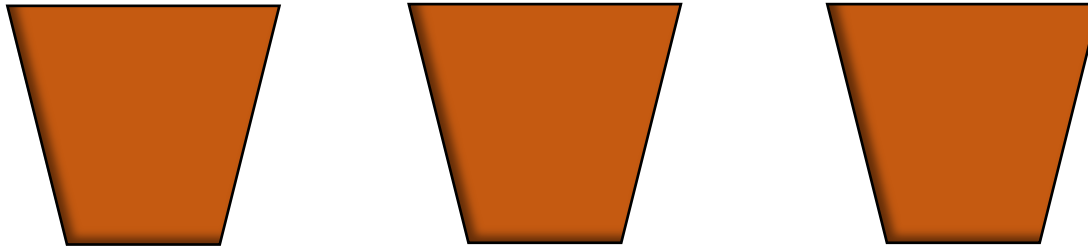
The flowers are shared equally between 8 pots.
How many flowers will be in each pot?



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?

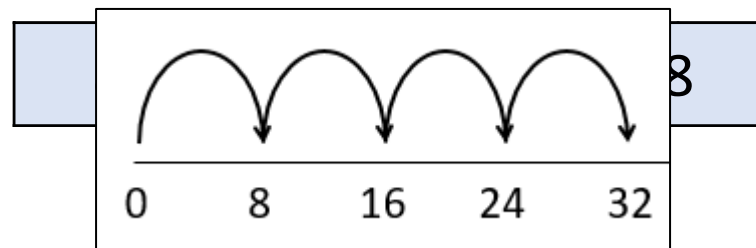
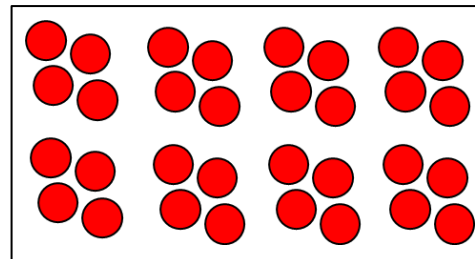
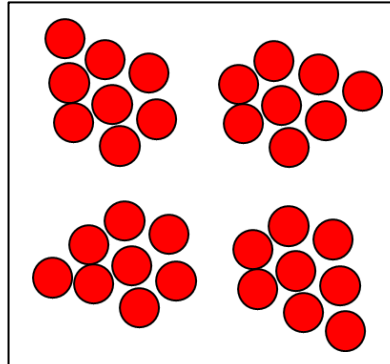


There are 3 pots of 8
 $24 \div 8 = 3$

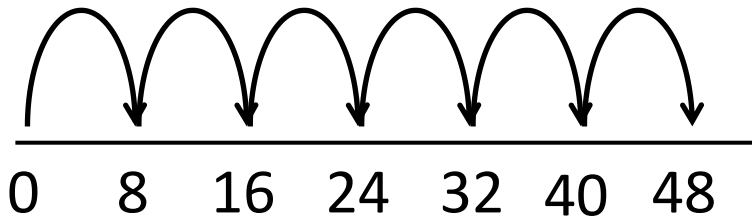
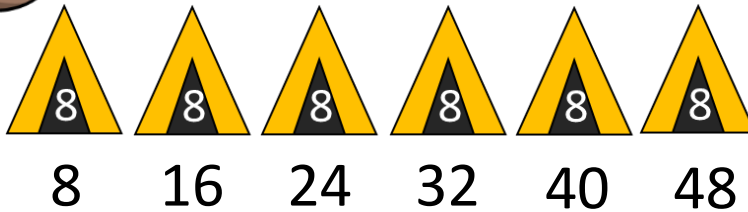
Shared into 8
equal groups

$$32 \div 8$$

Grouped
into 8s



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



Have a think



1 tent → 8 children

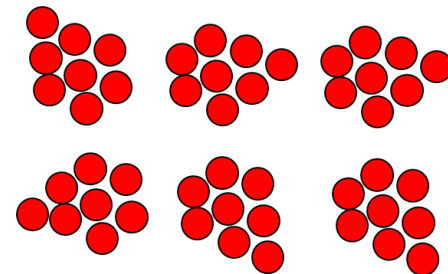
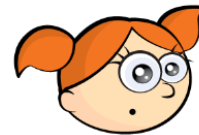
2 tents → 16 children

3 tents → 24 children

4 tents → 32 children

5 tents → 40 children

6 tents → 48 children



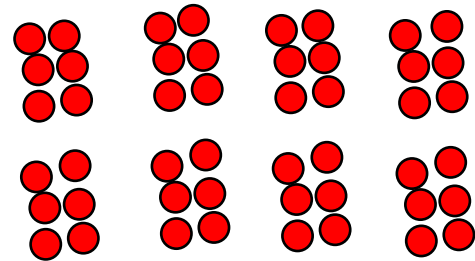
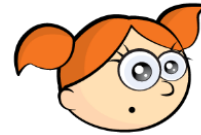
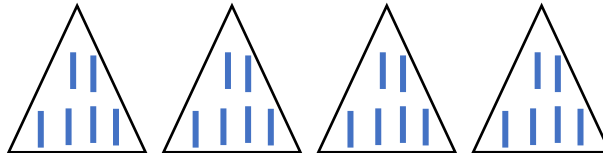
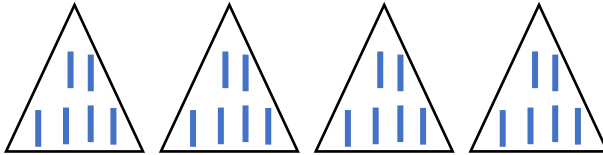
How could you represent this problem?

48 children go camping.

There are 8 tents.

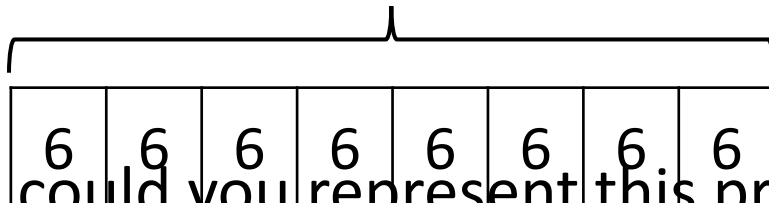
How many children will sleep in each tent?

Have a think



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

48



How could you represent this problem?



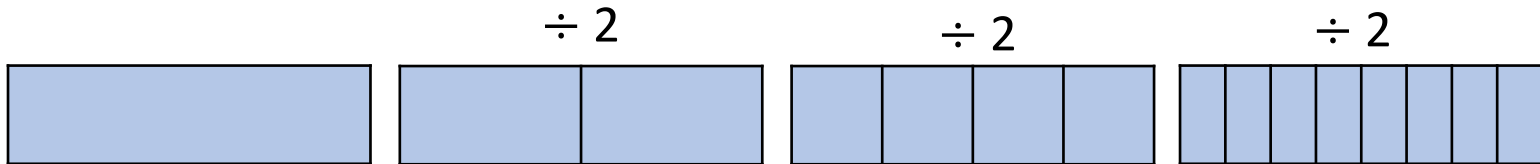
To divide by 8, take the number you are dividing and divide it by 2 four times.

$$80 \div 8 = 10$$

Have a think



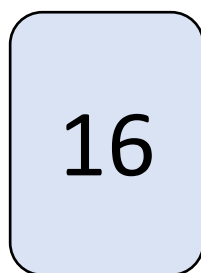
$$80 \xrightarrow{\div 2} 40 \xrightarrow{\div 2} 20 \xrightarrow{\div 2} 10$$



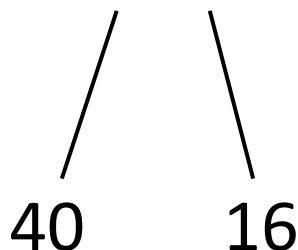
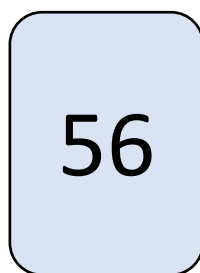
I think you only need to divide by 2 three times.



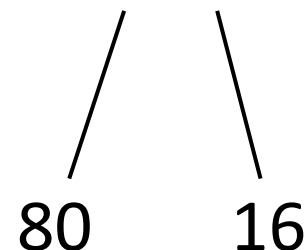
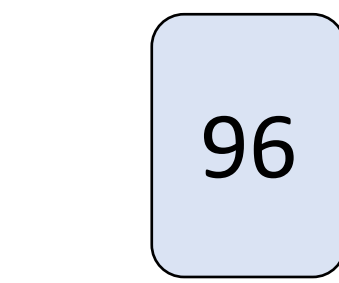
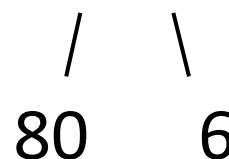
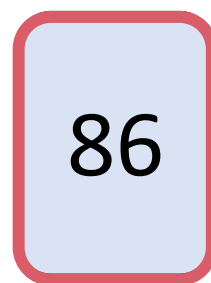
One of these numbers will not divide exactly by 8



$$2 \times 8$$



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



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

Have a think



YOUR TURN

Have a go at the questions
on the worksheet

