$15.1^{\circ} 21$

Blue: Divide by 8

## Trueor False?

To divide by 8 , you divide by 4 and then double your answer.

## Trueorfalse?

## False

Dividing by 4 and then doubling your answer is the same as dividing by 2

$24 \div 8=3$

$24 \div 4=6$

$$
6 \div 2=3
$$

To divide by 8 , you need to divide by 4 then halve your answer.


Here is an 8 by 2 array


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


$$
\begin{array}{lc}
2 \times 8= & 8 \times 2= \\
16 \div 8= & 16 \div 2=
\end{array}
$$

1) Draw an 8 by 4 arra

2) How many counters are there in your array 32
3) Write 2 multiplication equations to match your array. $4 \times 8=8 \times 4=$
4) Write $2 \underline{2}$ division ${ }_{3}$ equations to match your array.

Here are 24 flowers.


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?


I

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 $8 \quad 32 \div 8$ equal groups

Grouped into 8s

$88888:$
$8888: 8 \%$


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


Have a think 2 tents $\rightarrow 16$ children 3 tents $\rightarrow 24$ children 4 tents $\rightarrow 32$ children 5 tents $\rightarrow 40$ children
btents $\rightarrow$ 48 children


How could you represent this problem?

48 children go camping.
There are 8 tents.
Have a think How many children will sleep in each tent?

## ©



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 (1)
$80 \xrightarrow{\div 2} 40 \xrightarrow{\div 2} 20 \xrightarrow{\div 2} 10$
$\square$

$$
\div 2
$$



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

One of these numbers will not divide exactly by 8


Have a think

The baker has 32 bread rolls. $\quad 32 \div 4=8$ He puts them into packs of 4 How many packs can he fill?



## So all even numbers can be

grouped into 4s


Now complete your work sheet.

## Now play Hit the Button game division facts $\div 8$.

## https://www.topmarks.co.uk/maths-games/hit-the-button



