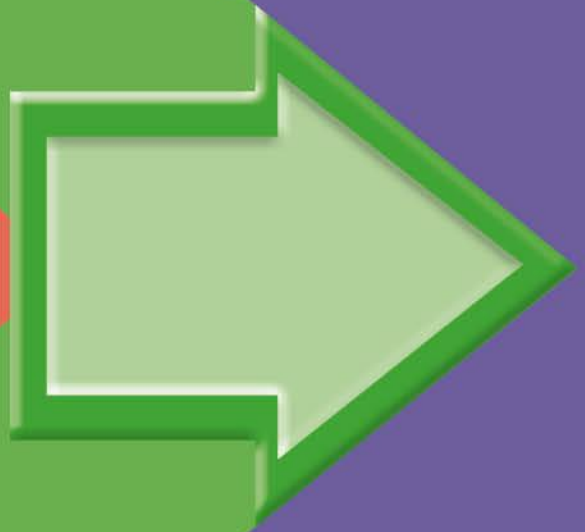
DIVIDE WITH REMAINDERS ACTIVITY

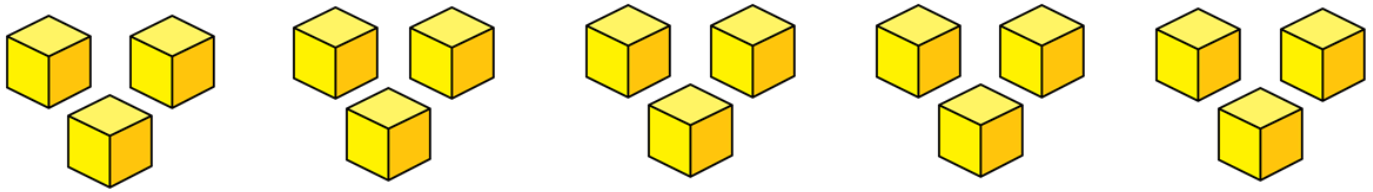


White Rose Maths

1) Circle the multiples of 5

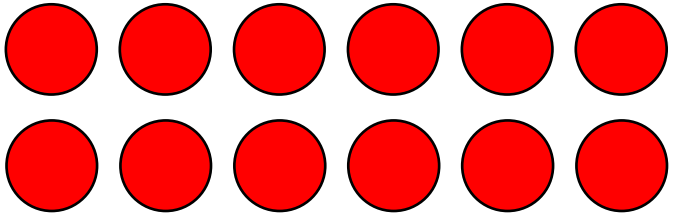
12 35 40 57 95 70

2) Here are 15 cubes.



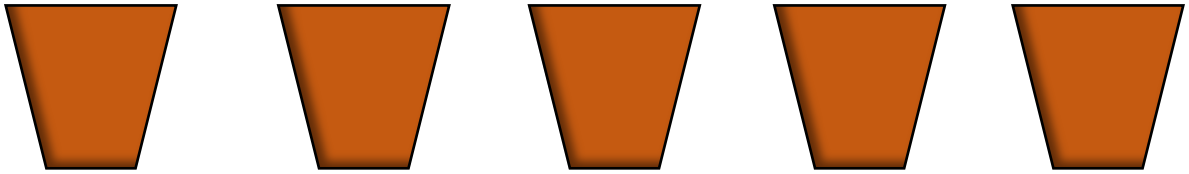
How many groups of 3 are there?

3) Here is an array.



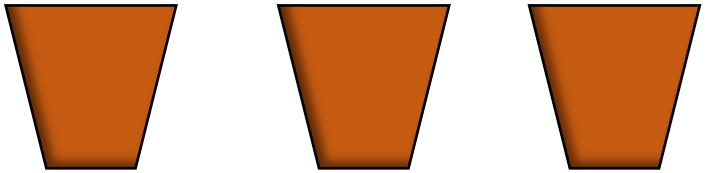
How many groups of 4 are there?

Alex has 11 flowers.



If she plants 2 flowers in each pot.
How many pots can she fill?

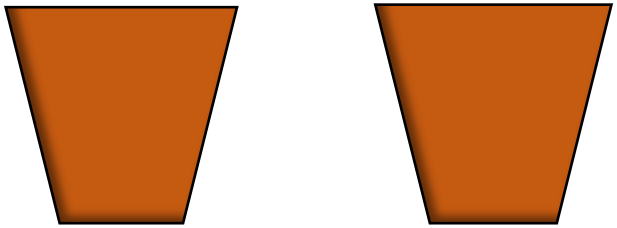
What if Alex grouped her flowers into pots of 3?



How many pots can she fill?

How many flowers will be remaining?

What if Alex grouped her flowers into pots of 4?

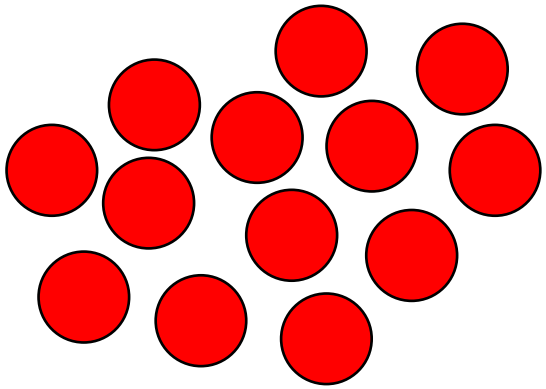


How many pots can she fill?

How many flowers will be remaining?

Dora has 13 counters.
She arranges her counters into equal groups and has some counters remaining.

How could Dora have arranged her counters?



Use counters to complete the following divisions.
What do you notice?

$21 \div 4 =$

$22 \div 4 =$

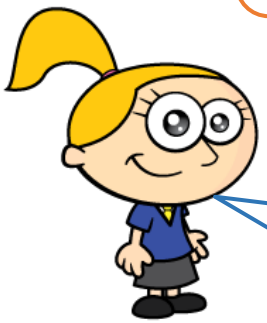
$23 \div 4 =$

$24 \div 4 =$

The children have some counters

There are fewer than 30 counters.

If I arrange the counters into groups of 5 there is 1 counter left over.



If I arrange the counters into groups of 8 there are 2 counters left over.

How many counters do they have?

Answers

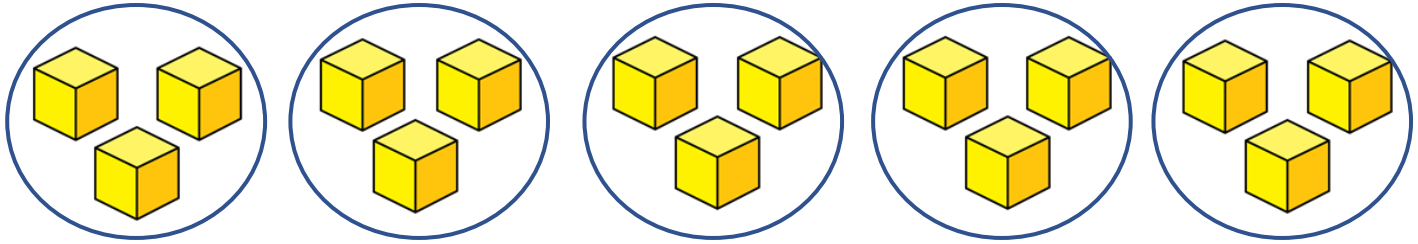
Mark your work. If you have made a mistake and don't understand the answer, have a look at this video

https://vimeo.com/492449125

1) Circle the multiples of 5

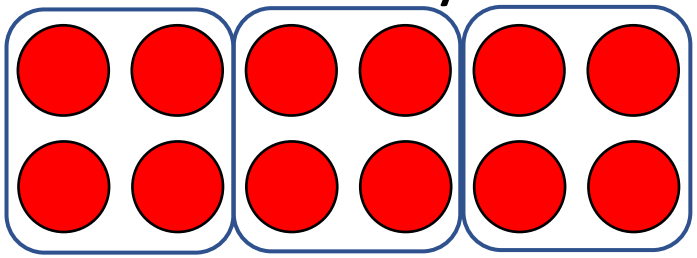
12 35 40 57 95 70

2) Here are 15 cubes.



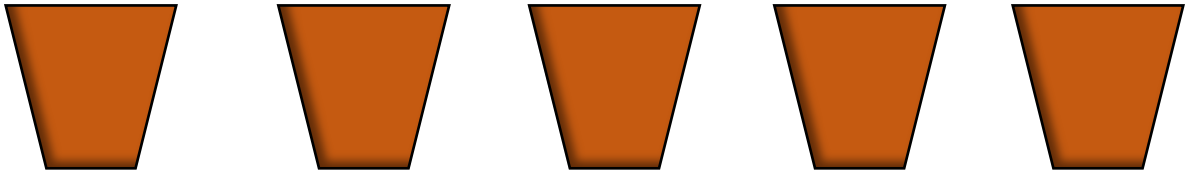
How many groups of 3 are there? 5

3) Here is an array.



How many groups of 4 are there? 3

Alex has 11 flowers.



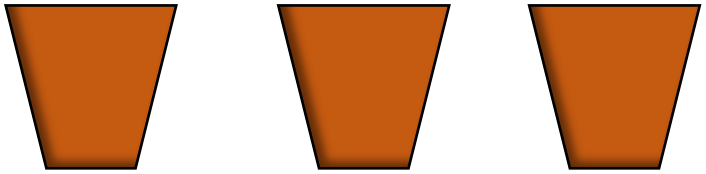
There are 5 pots of 2 and 1 flower remaining.

$11 \div 2 = 5$ remainder 1

If she plants 2 flowers in each pot.

How many pots can she fill?

What if Alex grouped her flowers into pots of 3?



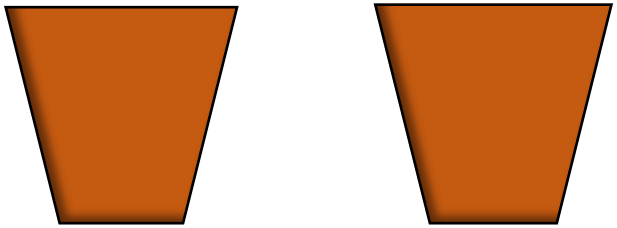
There are 3 pots of 3 and 2 flowers remaining.

$11 \div 3 = 3$ remainder 2

How many pots can she fill?

How many flowers will be remaining?

What if Alex grouped her flowers into pots of 4?

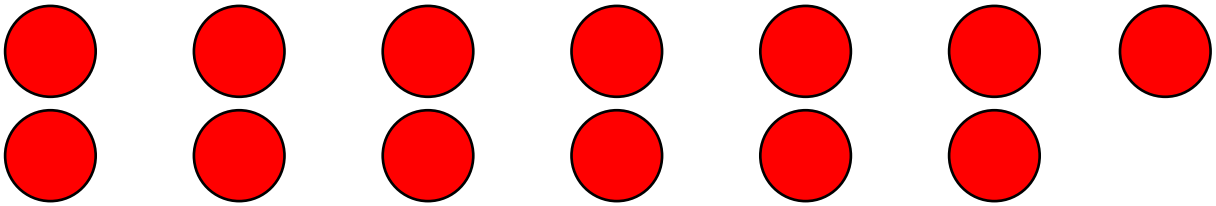


There are 2 pots of 4 and 3 flowers remaining.

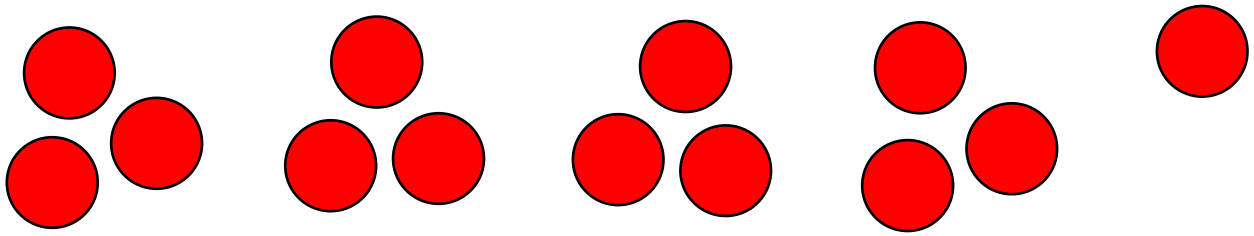
$11 \div 4 = 2$ r 3

How many pots can she fill?

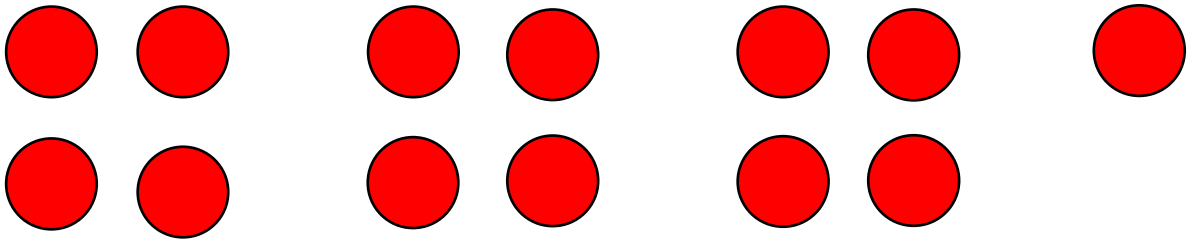
How many flowers will be remaining?



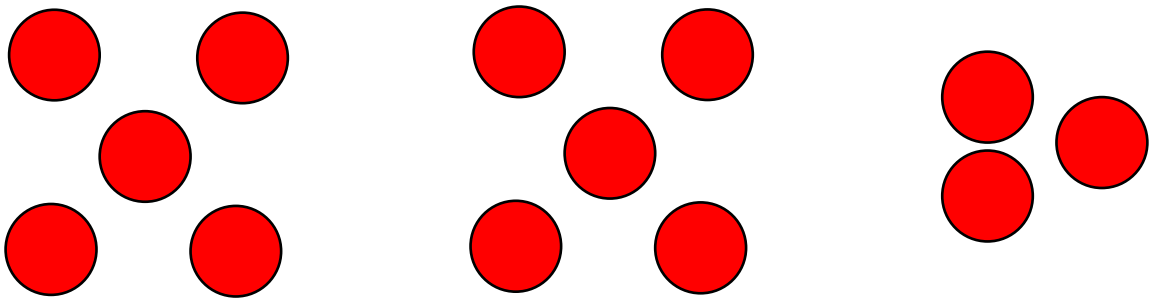
6 groups of 2 and 1 remaining $13 \div 2 = 6 \text{ r } 1$



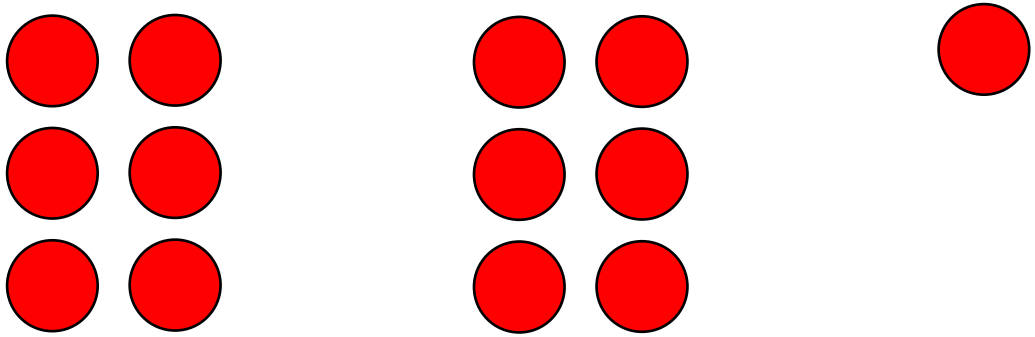
4 groups of 3 and 1 remaining $13 \div 3 = 4 \text{ r } 1$



3 groups of 4 and 1 remaining $13 \div 4 = 3 \text{ r } 1$

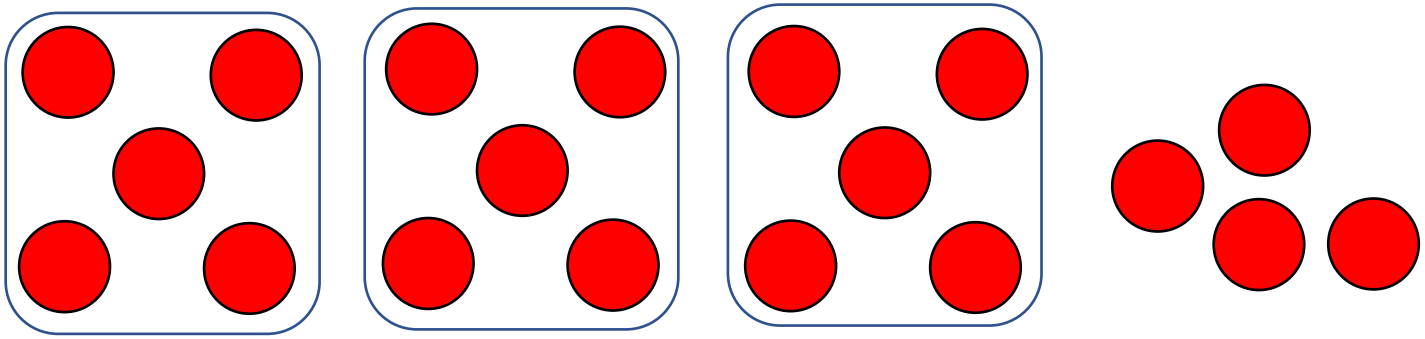


2 groups of 5 and 3 remaining $13 \div 5 = 2 \text{ r } 3$

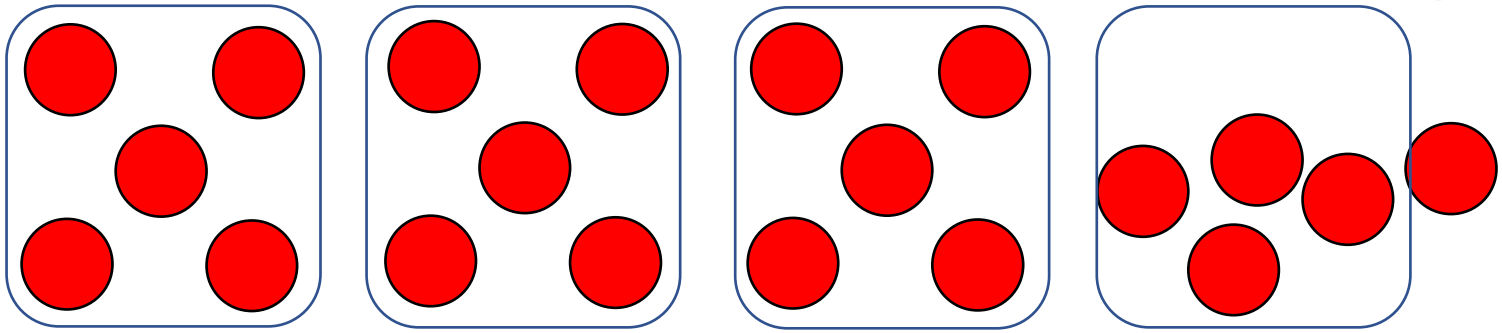


2 groups of 6 and 1 remaining $13 \div 6 = 2 \text{ r } 1$

19 divided by 5 is equal to 3 r 4

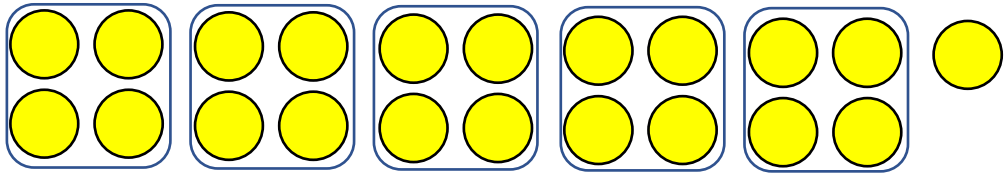


20 divided by 5 is equal to 3 r 5

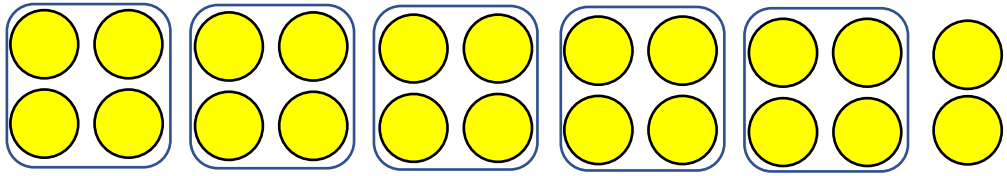


Use counters to complete the following divisions.
What do you notice?

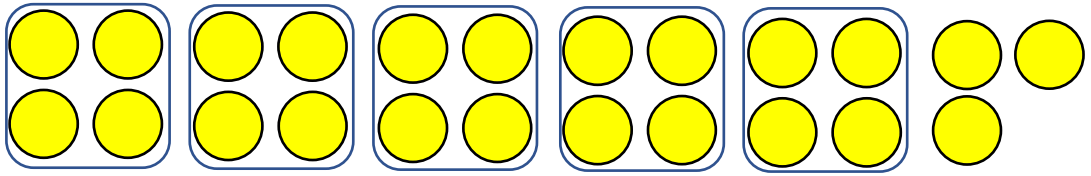
$21 \div 4 =$ 5 r 1



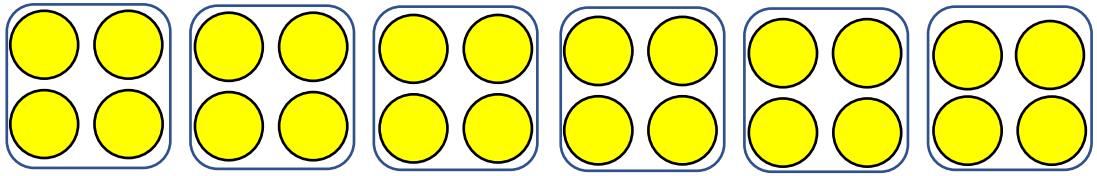
$22 \div 4 =$ 5 r 2



$23 \div 4 =$ 5 r 3



$24 \div 4 =$ 6



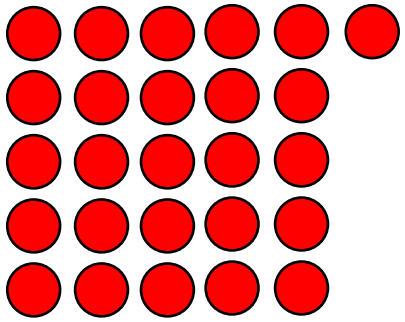
How many counters do they have?

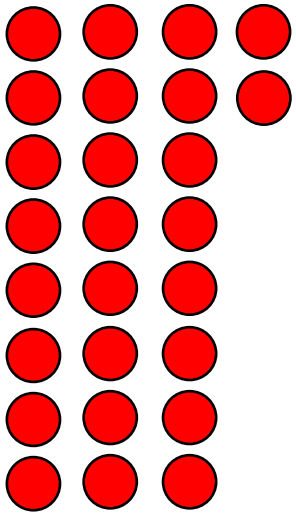
There are fewer than 30 counters.

If I arrange the counters into groups of 5 there is 1 counter left over.

If I arrange the counters into groups of 8 there are 2 counters left over.

6
11
16
21
26
10
18
26





They have 26 counters.

Can you create your own puzzle like this?