

Make equal groups - grouping



Problem solving and reasoning cards:

Sue and Mo have the same number of cubes.

They each have less than 35 cubes.

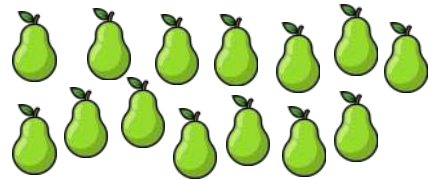
Sue has 6 equal groups of cubes.

Mo has 3 equal groups of cubes.

Could they have 30 cubes each?



You can make 3 equal groups of 5 from the objects below.



Spot the mistake.

Explain your answer.

Tam says,



I can make 8 equal groups of 5.

How many counters does Tam have?

Explain how you know.



My number is between 10 and 30. I can make equal groups of 10.

What is Mo's number?

- a) Can he make equal groups of 2?
- b) Can he make equal groups of 5?

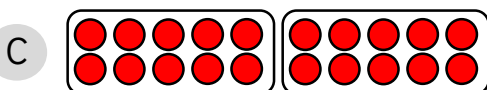
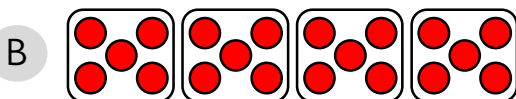
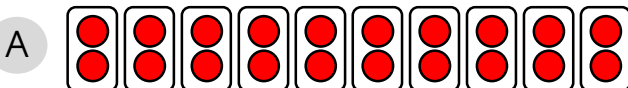
Prove it.

Look at the groups below.

What is the same?

What is different?

Can you describe each row?



Kat says,



You can always make equal groups of 5 with numbers that end in 0.

True or false?

Prove it.

Show examples.

Make equal groups - grouping



Problem solving and reasoning cards:

Sue and Mo have the same number of cubes.

They each have less than 35 cubes.

Sue has 6 equal groups of cubes.

Mo has 3 equal groups of cubes.

Could they have 30 cubes each?

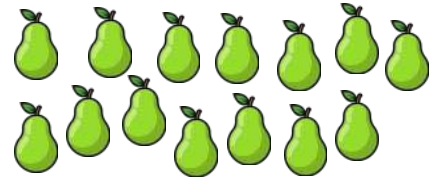
Yes.

$$6 \text{ groups of } 5 = 30$$

$$3 \text{ groups of } 10 = 30$$



You can make 3 equal groups of 5 from the objects below.



Spot the mistake.

Explain your answer.

There are 14 pears so you cannot make equal 3 equal groups of 5.

Tam says,



I can make 8 equal groups of 5.

How many counters does Tam have?

Explain how you know.

Tam has 40 counters as 8 groups of 5 is 40.



My number is between 10 and 30. I can make equal groups of 10.

What is Mo's number? 20

a) Can he make equal groups of 2?

b) Can he make equal groups of 5?

Prove it.

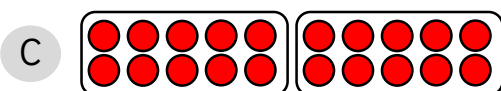
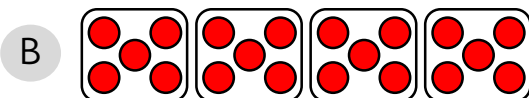
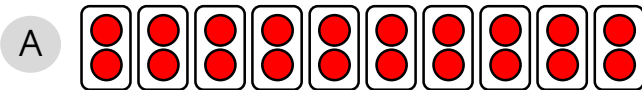
a) Yes, 10 equal groups of 2.

b) Yes, 4 equal groups of 5.

Look at the groups below.

What is the same? What is different?

Can you describe each row?



Same – There are 20 counters

Different – Different number of groups and different number in each group.

Kat says,



You can always make equal groups of 5 with numbers that end in 0.

True or false?

True.

All numbers that end in 0 are divisible by 5. For example,

20 – 4 groups of 5.

30 – 6 groups of 5.

Prove it.

Show examples.

40 – 8 groups of 5