

## Maths Chilli Challenge



Look at the challenges below, choose a level of chilli you want to start with. If you feel confident, try a spicier one.



Mild: Complete the four fact families and draw Dienes in the part part whole model and bar model.

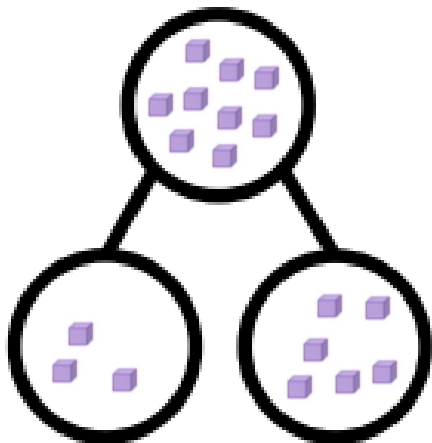
1)

$$6 + 3 = 9$$

$$3 + 6 = 9$$

$$9 - 6 = 3$$

$$9 - 3 = 6$$



9	
3	6

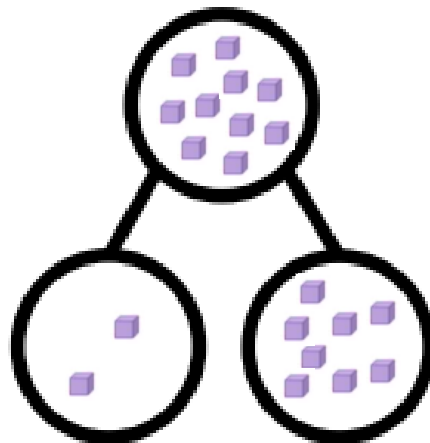
2)

$$2 + 8 = 10$$

$$8 + 2 = 10$$

$$10 - 8 = 2$$

$$10 - 2 = 8$$

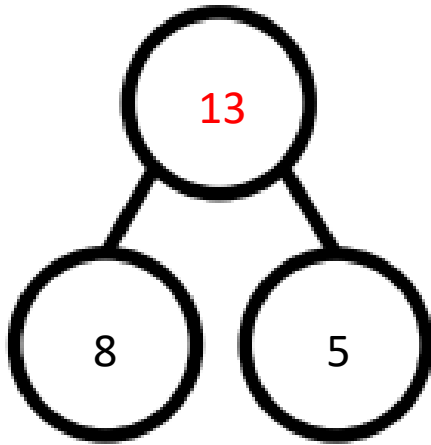


10	
8	2



Medium: Complete the part part whole model, four fact families and bar model.

1)

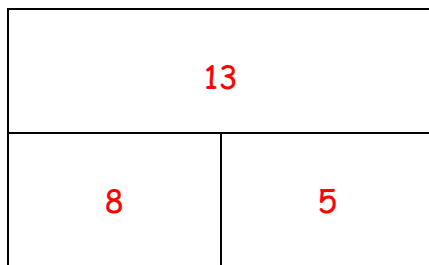


$$8 + 5 = 13$$

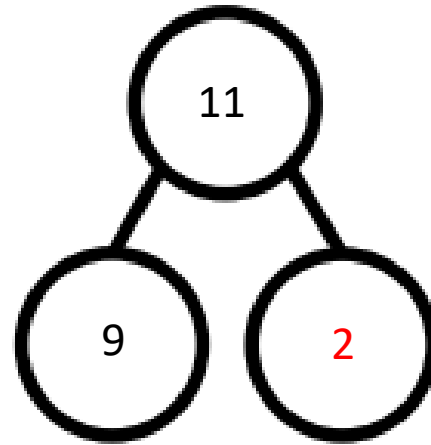
$$5 + 8 = 13$$

$$13 - 8 = 5$$

$$13 - 5 = 8$$



2)

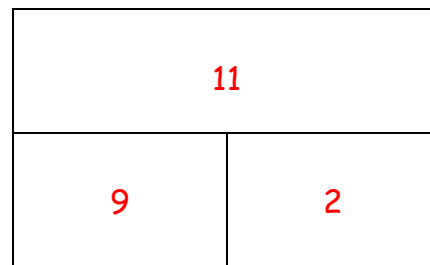


$$9 + 2 = 11$$

$$2 + 9 = 11$$

$$11 - 9 = 2$$

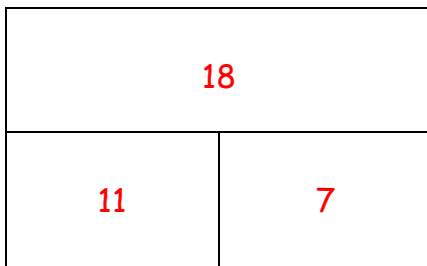
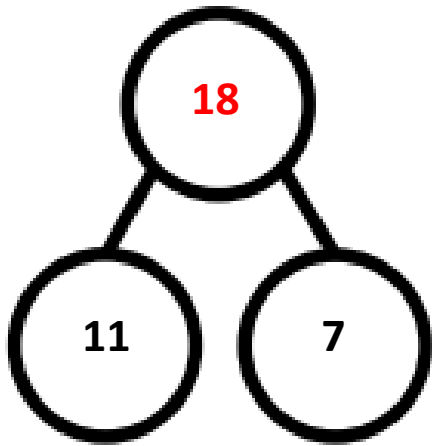
$$11 - 2 = 9$$





Hot: Complete the part part whole model, bar model and eight fact families.

1)



$$11 + 7 = 18$$

$$7 + 11 = 18$$

$$18 = 11 + 7$$

$$18 = 7 + 11$$

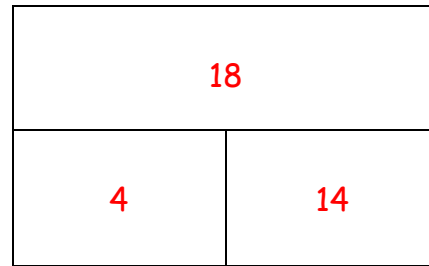
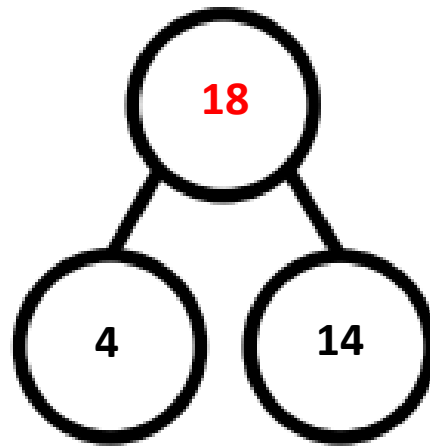
$$18 - 11 = 7$$

$$18 - 7 = 11$$

$$11 = 18 - 7$$

$$7 = 18 - 11$$

2)



$$4 + 14 = 18$$

$$14 + 4 = 18$$

$$18 = 4 + 14$$

$$18 = 14 + 4$$

$$18 - 4 = 14$$

$$18 - 14 = 4$$

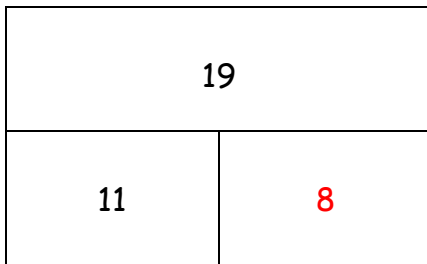
$$14 = 18 - 4$$

$$4 = 18 - 14$$



Spicy: Complete the bar model, four fact families and part part whole model.

1)



$$11 + 8 = 19$$

$$8 + 11 = 19$$

$$19 = 11 + 8$$

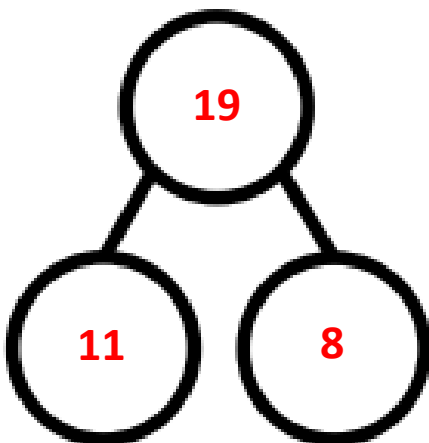
$$19 = 8 + 11$$

$$19 - 11 = 8$$

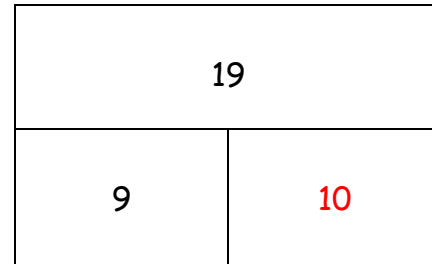
$$19 - 8 = 11$$

$$11 = 19 - 8$$

$$8 = 19 - 11$$



2)



$$9 + 10 = 19$$

$$10 + 9 = 19$$

$$19 = 9 + 10$$

$$19 = 10 + 9$$

$$19 - 9 = 10$$

$$19 - 10 = 9$$

$$10 = 19 - 9$$

$$9 = 19 - 10$$

