

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.

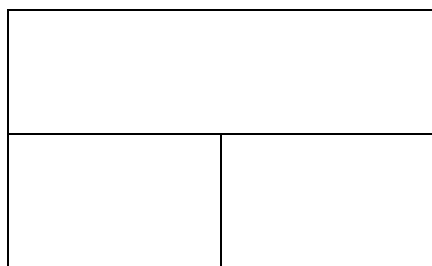
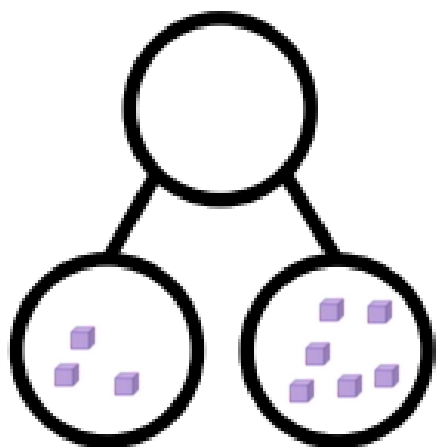
1)

$$6 + 3 = \underline{\quad}$$

$$3 + 6 = \underline{\quad}$$

$$\underline{\quad} - 6 = 3$$

$$\underline{\quad} - 3 = 6$$



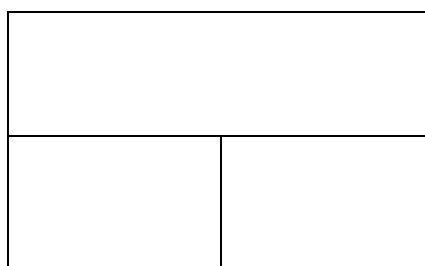
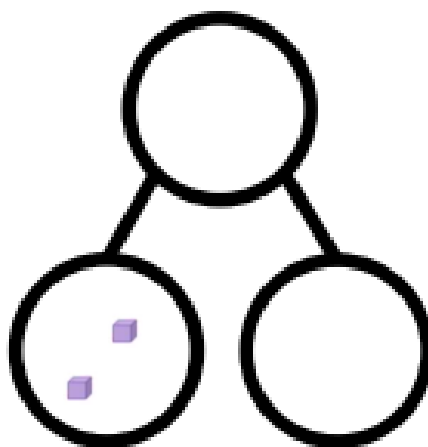
2)

$$2 + 8 = \underline{\quad}$$

$$8 + 2 = \underline{\quad}$$

$$\underline{\quad} - 8 = 2$$

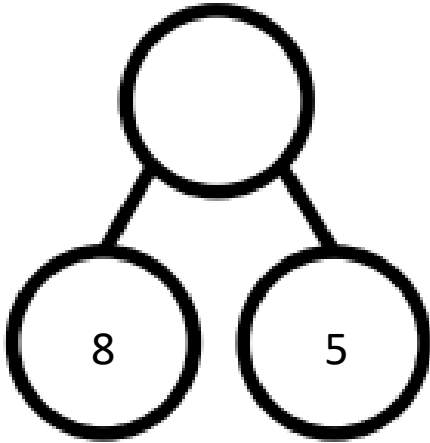
$$\underline{\quad} - 2 = 8$$





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

1)

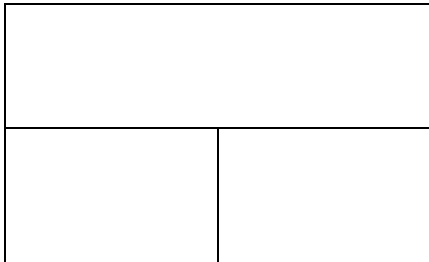


$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

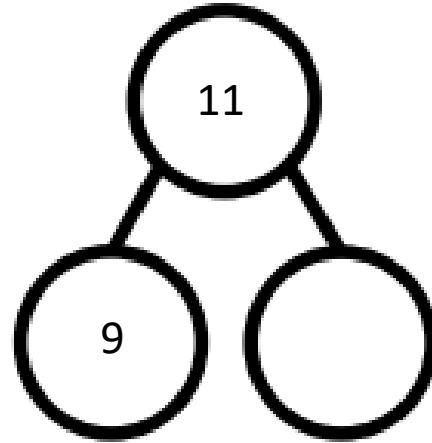
$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



2)

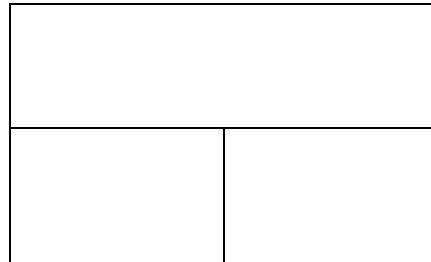


$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

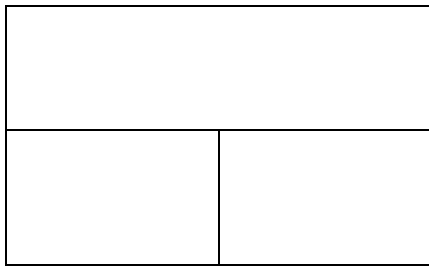
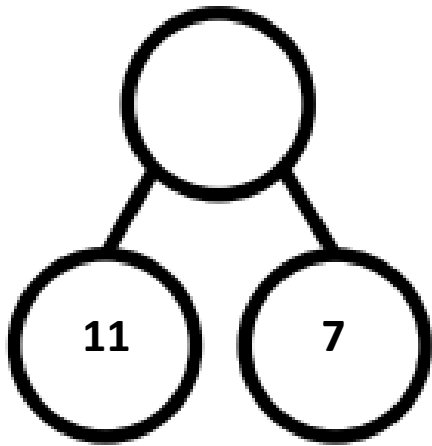
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$





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

1)



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

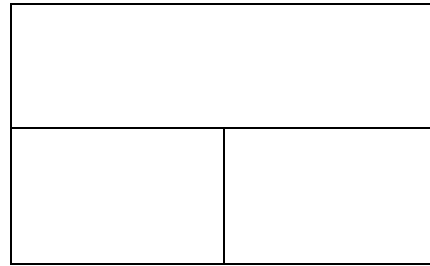
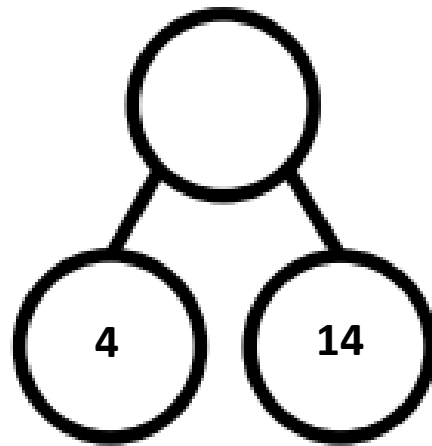
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

2)



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

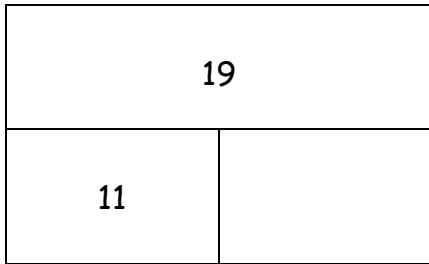
$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$



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

1)



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

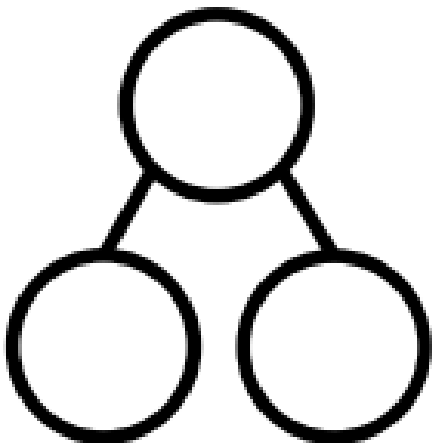
$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

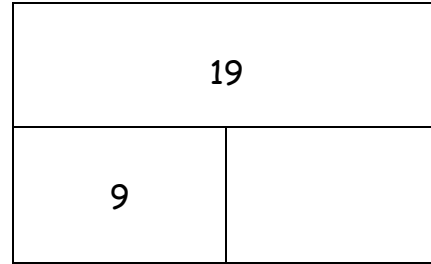
$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$



2)



$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} + \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

$$\underline{\quad} = \underline{\quad} - \underline{\quad}$$

