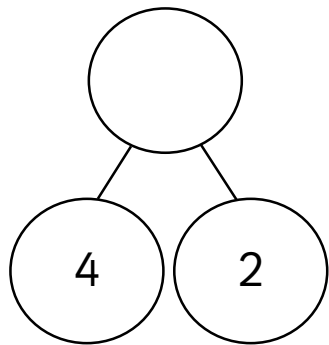


# Related facts

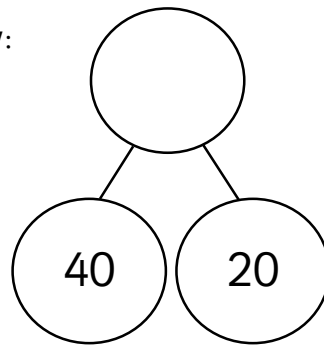


1 Complete the part-whole diagrams.

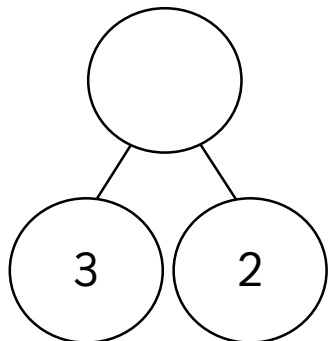
a If I know:



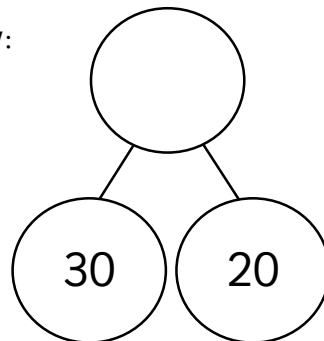
then I know:



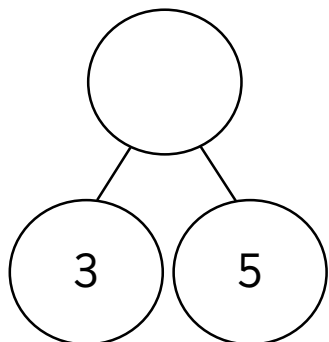
b If I know:



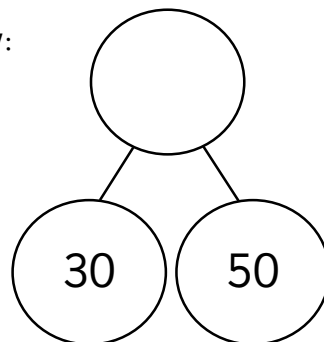
then I know:



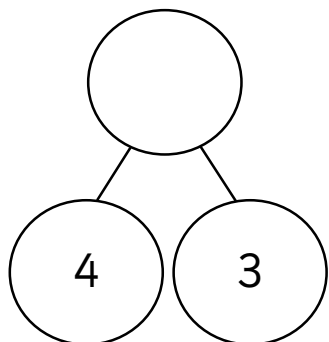
c If I know:



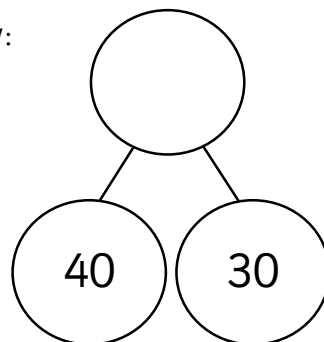
then I know:



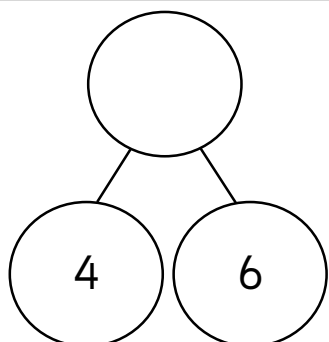
d If I know:



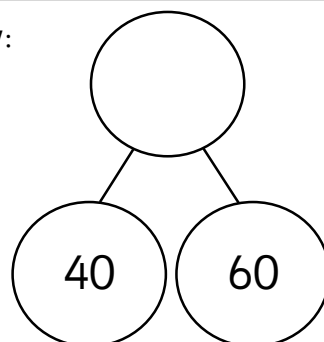
then I know:



e If I know:



then I know:



# Related facts



1 Write the missing numbers in the related facts.

a If I know  $3 + 4 = 7$  then I know  $30 + 40 = \underline{\quad}$ .

b If I know  $2 + 6 = 8$  then I know  $20 + 60 = \underline{\quad}$ .

c If I know  $3 + 5 = 8$  then I know  $30 + 50 = \underline{\quad}$ .

d If I know  $4 + 5 = \underline{\quad}$  then I know  $40 + 50 = \underline{\quad}$ .

e If I know  $5 + 2 = \underline{\quad}$  then I know  $50 + 20 + \underline{\quad}$ .

f If I know  $6 + 3 = \underline{\quad}$  then I know  $60 + 30 = \underline{\quad}$ .

g If I know  $3 + 7 = \underline{\quad}$  then I know  $30 + 70 = \underline{\quad}$ .

h If I know  $5 - 2 = \underline{\quad}$  then I know  $50 - 20 = \underline{\quad}$ .

i If I know  $6 - 4 = \underline{\quad}$  then I know  $60 - 40 = \underline{\quad}$ .

j If I know  $7 - 4 = \underline{\quad}$  then I know  $70 - 40 = \underline{\quad}$ .

k If I know  $8 - 4 = \underline{\quad}$  then I know  $80 - 40 = \underline{\quad}$ .

l If I know  $9 - 3 = \underline{\quad}$  then I know  $90 - 30 = \underline{\quad}$ .

m If I know  $8 - 6 = \underline{\quad}$  then I know  $80 - 60 = \underline{\quad}$ .

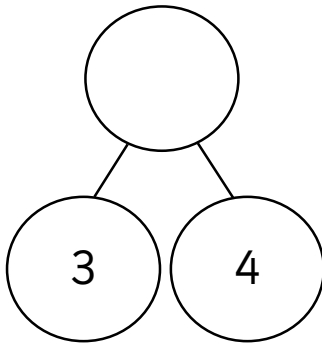
n If I know  $10 - 7 = \underline{\quad}$  then I know  $100 - 70 = \underline{\quad}$ .

# Related facts

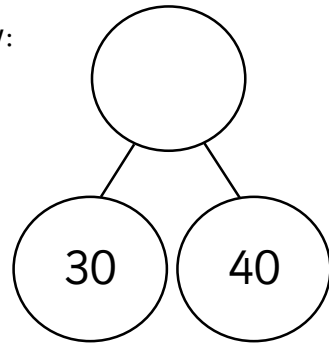


1 Write the missing numbers in the related facts.

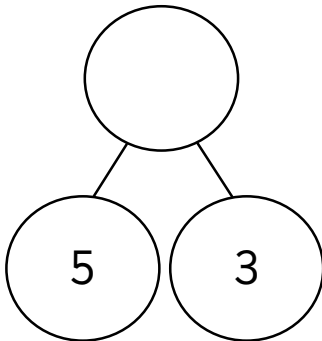
a If I know:



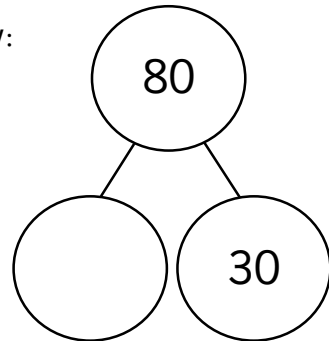
then I know:



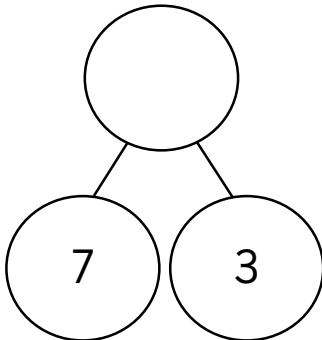
b If I know:



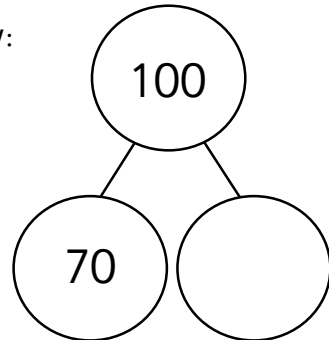
then I know:



c If I know:



then I know:



d If I know  $5 + 3 = \underline{\quad}$  then I know  $50 + 30 + \underline{\quad}$ .

e If I know  $4 + 3 = \underline{\quad}$  then I know  $40 + 30 = \underline{\quad}$ .

f If I know  $4 + 6 = \underline{\quad}$  then I know  $40 + 60 = \underline{\quad}$ .

g If I know  $8 - 6 = \underline{\quad}$  then I know  $80 - \underline{\quad} = \underline{\quad}$ .

h If I know  $9 - 4 = \underline{\quad}$  then I know  $90 - \underline{\quad} = \underline{\quad}$ .

i If I know  $10 - 3 = \underline{\quad}$  then I know  $100 - \underline{\quad} = \underline{\quad}$ .

# Related facts



Write two number sentences to represent each problem.

Mo has 5 sweets and receives 3 more.  
Kat has 50 sweets and receives 30 more.  
How many do they each have?

Mo  +  =

Kat  +  =

Tam has 7 apples and gives away 3.  
Ben has 70 apples and gives away 30.  
How many do they each have?

Tam  -  =

Ben  -  =

Jack has 2 lollies and receives 5 more.  
Beth has 20 lollies and receives 50 more.  
How many do they each have?

Jack  +  =

Beth  +  =

Sue has 8 pears and gives away 2.  
Che has 80 pears and gives away 20.  
How many do they each have?

Sue  -  =

Che  -  =

Dom has 3 balls and receives 6 more.  
Gina has 30 balls and receives 60 more.  
How many do they each have?

Dom  +  =

Gina  +  =

Jess has 9 pencils and gives away 4.  
Matt has 90 pencils and gives away 40.  
How many do they each have?

Jess  -  =

Matt  -  =

Rob has 4 clips and receives 6 more.  
Asha has 40 clips and receives 60 more.  
How many do they each have?

Rob  +  =

Asha  +  =

Kat has 10 oranges and gives away 7.  
Mo has 100 oranges and gives away 70.  
How many do they each have?

Kat  -  =

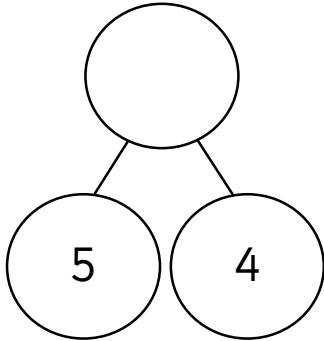
Mo  -  =

# Related facts

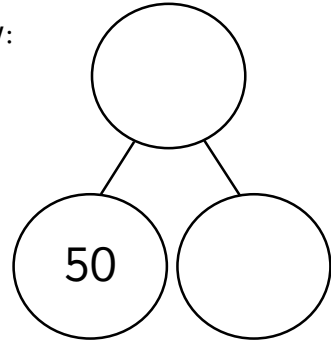


1 Write the missing numbers in the related facts.

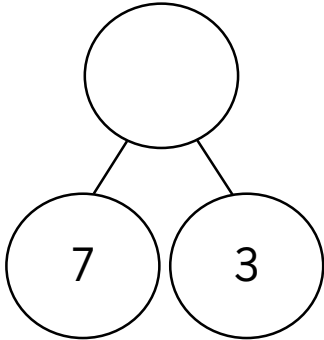
a If I know:



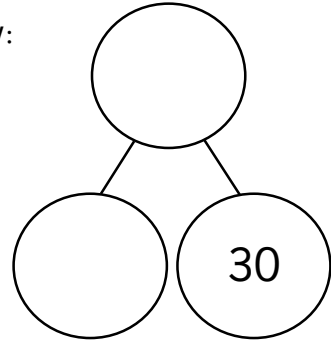
then I know:



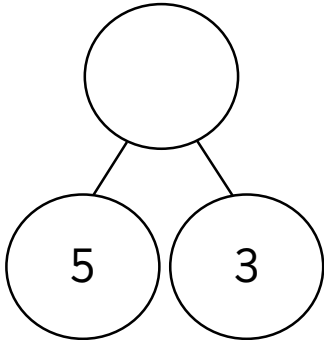
b If I know:



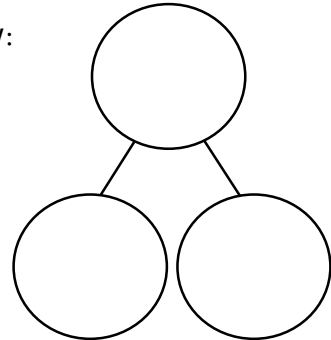
then I know:



c If I know:



then I know:



d If I know  $2 + \underline{\quad} = 8$  then I know  $20 + \underline{\quad} = 80$ .

e If I know  $\underline{\quad} + 3 = 9$  then I know  $\underline{\quad} + 30 = \underline{\quad}$ .

f If I know  $4 + \underline{\quad} = 10$  then I know  $40 + \underline{\quad} = \underline{\quad}$ .

g If I know  $\underline{\quad} - 5 = 3$  then I know  $\underline{\quad} - 50 = \underline{\quad}$ .

h If I know  $7 - \underline{\quad} = 4$  then I know  $70 - \underline{\quad} = \underline{\quad}$ .

i If I know  $\underline{\quad} - 6 = 4$  then I know  $\underline{\quad} - 60 = \underline{\quad}$ .

# Related facts



Use and complete the number sentences to solve each problem.

Jess has 5 lollies and receives 4 more.

Dom has 50 lollies and receives 40 more.

How many do they each have?

$$\text{Jess} \quad \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

$$\text{Dom} \quad \boxed{\phantom{00}} + \boxed{\phantom{00}} = \boxed{\phantom{00}}$$

Rob has 7 pencils and gives away \_\_\_\_.

Sue has 70 pencils and gives away 30.

How many do they each have?

$$\text{Rob} \quad \boxed{7} - \boxed{\phantom{00}} = \boxed{4}$$

$$\text{Sue} \quad \boxed{70} - \boxed{30} = \boxed{\phantom{00}}$$

Kat has 2 pears and receives \_\_\_\_ more.

Ben has 20 pears and receives \_\_\_\_ more.

How many do they each have?

$$\text{Kat} \quad \boxed{2} + \boxed{\phantom{00}} = \boxed{10}$$

$$\text{Ben} \quad \boxed{20} + \boxed{\phantom{00}} = \boxed{100}$$

Matt has \_\_\_\_ balls and gives away \_\_\_\_.

Tam has \_\_\_\_ balls and gives away \_\_\_\_.

How many do they each have?

$$\text{Matt} \quad \boxed{9} - \boxed{3} = \boxed{\phantom{00}}$$

$$\text{Tam} \quad \boxed{90} - \boxed{30} = \boxed{\phantom{00}}$$

Asha has \_\_\_\_ fish and receives \_\_\_\_ more.

Che has 30 fish and receives \_\_\_\_ more.

How many do they each have?

$$\text{Asha} \quad \boxed{3} + \boxed{\phantom{00}} = \boxed{8}$$

$$\text{Che} \quad \boxed{30} + \boxed{\phantom{00}} = \boxed{80}$$

Jack has \_\_\_\_ clips and gives away 4.

Beth has \_\_\_\_ clips and gives away 40.

How many do they each have?

$$\text{Jack} \quad \boxed{\phantom{00}} - \boxed{4} = \boxed{6}$$

$$\text{Beth} \quad \boxed{\phantom{00}} - \boxed{40} = \boxed{60}$$

Gina has 3 cubes and receives \_\_\_\_ more.

Mo has \_\_\_\_ cubes and receives 70 more.

How many do they each have?

$$\text{Gina} \quad \boxed{3} + \boxed{\phantom{00}} = \boxed{10}$$

$$\text{Mo} \quad \boxed{\phantom{00}} + \boxed{70} = \boxed{100}$$

Dom has \_\_\_\_ sweets and gives away \_\_\_\_.

Jess has \_\_\_\_ sweets and gives away \_\_\_\_.

How many do they each have?

$$\text{Dom} \quad \boxed{8} - \boxed{4} = \boxed{\phantom{00}}$$

$$\text{Jess} \quad \boxed{80} - \boxed{40} = \boxed{\phantom{00}}$$

# Related facts



Problem solving and reasoning cards:

Both related facts contain mistakes.

$$8 - 5 = 4$$

$$80 - 50 = 40$$

Correct the mistakes by writing two number sentences.

$$\square - \square = \square$$

$$\square - \square = \square$$

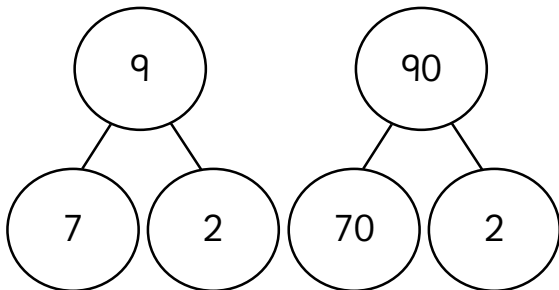
Mo has 7 sweets. He gives 4 away.

Asha has 70 sweets. She gives \_\_\_\_\_ away.  
Asha has 30 sweets left.

Tick (✓) true or false for each sentence.

	True	False
Mo has 30 sweets left.		
Asha gave 4 sweets away.		
Mo has 3 sweets left.		
Asha gave 40 sweets away.		

Kat has completed part-whole diagrams to show  $7 + 2 = 9$  and  $70 + 20 = 90$ .



What mistake has Kat made?  
Explain your answer.

Continue the pattern.

$$6 = 10 - 4$$

$$60 = 100 - 40$$

$$5 = 10 - 5$$

$$50 = 100 - 50$$

$$4 = 10 - 6$$

$$40 = 100 - 60$$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

What are the similarities and differences between two patterns?

Kat has 4 balls and receives 5 more.

Dom has 40 balls and receives 50 more.

How many do they each have?



If I know  $8 + 2 = 10$ ,  
I can work out  
 $80 + \underline{\quad} = 100$ .

Colour the related facts.

$90 - 50 = 40$	$50 + 40 = 90$
$4 + 5 = 9$	$9 - 4 = 5$

Explain how Che can find the missing number by using  $8 + 2 = 10$ .