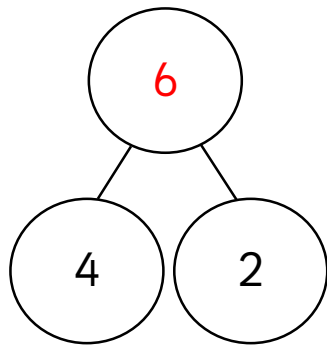


Related facts

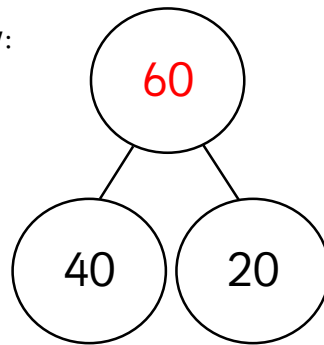


1 Complete the part-whole diagrams.

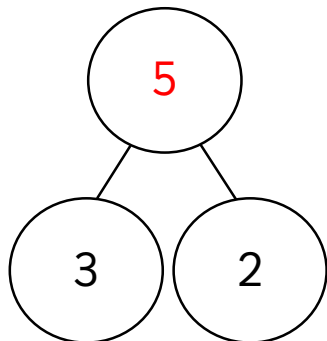
a If I know:



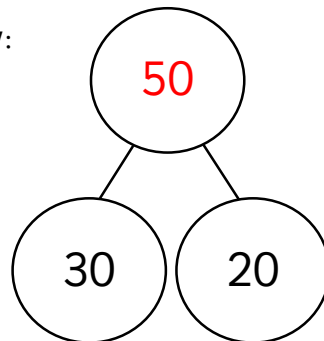
then I know:



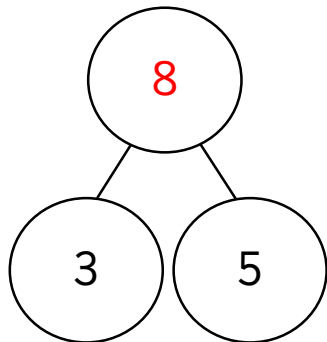
b If I know:



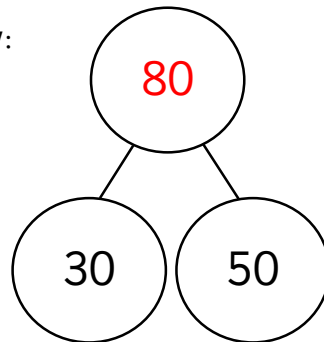
then I know:



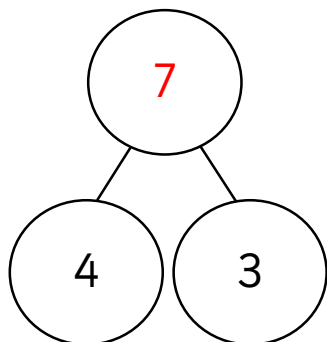
c If I know:



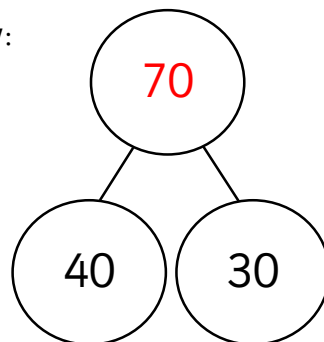
then I know:



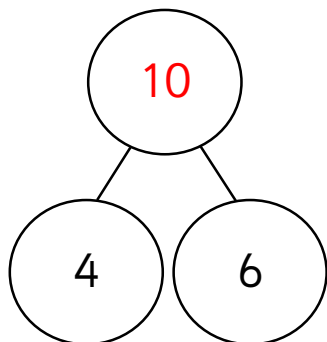
d If I know:



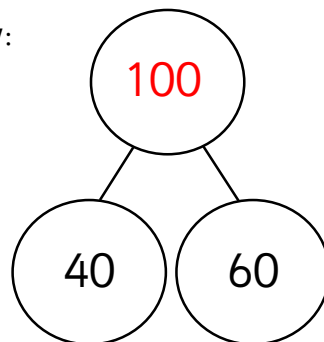
then I know:



e If I know:



then I know:



Related facts



1 Write the missing numbers in the related facts.

a If I know $3 + 4 = \underline{7}$ then I know $30 + 40 = \underline{70}$.

b If I know $2 + 6 = \underline{8}$ then I know $20 + 60 = \underline{80}$.

c If I know $3 + 5 = \underline{8}$ then I know $30 + 50 = \underline{80}$.

d If I know $4 + 5 = \underline{9}$ then I know $40 + 50 = \underline{90}$.

e If I know $5 + 2 = \underline{7}$ then I know $50 + 20 = \underline{70}$.

f If I know $6 + 3 = \underline{9}$ then I know $60 + 30 = \underline{90}$.

g If I know $3 + 7 = \underline{10}$ then I know $30 + 70 = \underline{100}$.

h If I know $5 - 2 = \underline{3}$ then I know $50 - 20 = \underline{30}$.

i If I know $6 - 4 = \underline{2}$ then I know $60 - 40 = \underline{20}$.

j If I know $7 - 4 = \underline{3}$ then I know $70 - 40 = \underline{30}$.

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

l If I know $9 - 3 = \underline{6}$ then I know $90 - 30 = \underline{60}$.

m If I know $8 - 6 = \underline{2}$ then I know $80 - 60 = \underline{20}$.

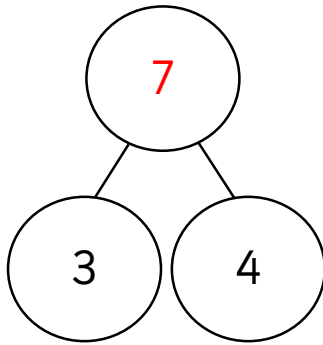
n If I know $10 - 7 = \underline{3}$ then I know $100 - 70 = \underline{30}$.

Related facts

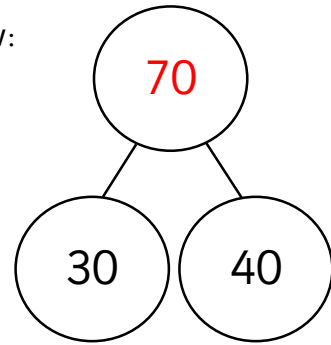


1 Write the missing numbers in the related facts.

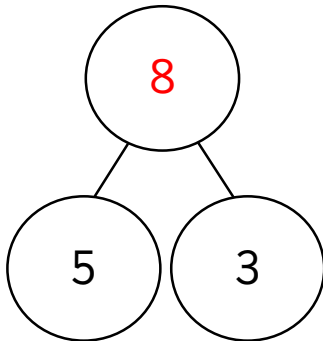
a If I know:



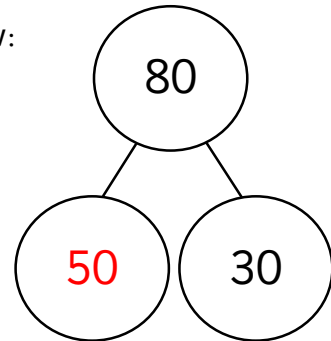
then I know:



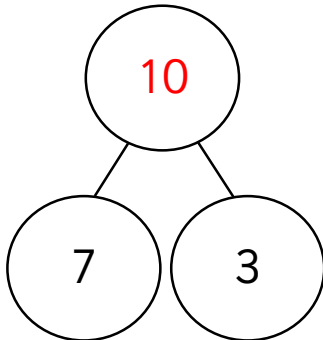
b If I know:



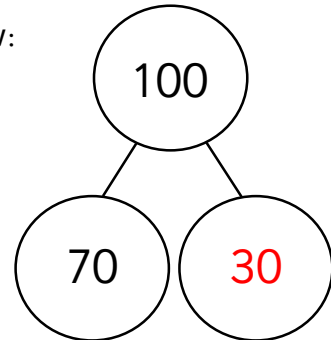
then I know:



c If I know:



then I know:



d If I know $5 + 3 = \underline{8}$ then I know $50 + 30 + \underline{80}$.

e If I know $4 + 3 = \underline{7}$ then I know $40 + 30 = \underline{70}$.

f If I know $4 + 6 = \underline{10}$ then I know $40 + 60 = \underline{100}$.

g If I know $8 - 6 = \underline{2}$ then I know $80 - \underline{60} = \underline{20}$.

h If I know $9 - 4 = \underline{5}$ then I know $90 - \underline{40} = \underline{50}$.

i If I know $10 - 3 = \underline{7}$ then I know $100 - \underline{30} = \underline{70}$.

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?

$$\text{Mo} \quad \boxed{5} + \boxed{3} = \boxed{8}$$

$$\text{Kat} \quad \boxed{50} + \boxed{30} = \boxed{80}$$

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

$$\text{Tam} \quad \boxed{7} - \boxed{3} = \boxed{4}$$

$$\text{Ben} \quad \boxed{70} - \boxed{30} = \boxed{40}$$

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

$$\text{Jack} \quad \boxed{2} + \boxed{5} = \boxed{7}$$

$$\text{Beth} \quad \boxed{20} + \boxed{50} = \boxed{70}$$

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

$$\text{Sue} \quad \boxed{8} - \boxed{2} = \boxed{6}$$

$$\text{Che} \quad \boxed{80} - \boxed{20} = \boxed{60}$$

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

$$\text{Dom} \quad \boxed{3} + \boxed{6} = \boxed{9}$$

$$\text{Gina} \quad \boxed{30} + \boxed{60} = \boxed{90}$$

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

$$\text{Jess} \quad \boxed{9} - \boxed{4} = \boxed{50}$$

$$\text{Matt} \quad \boxed{90} - \boxed{40} = \boxed{50}$$

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

$$\text{Rob} \quad \boxed{4} + \boxed{6} = \boxed{10}$$

$$\text{Asha} \quad \boxed{40} + \boxed{60} = \boxed{100}$$

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

$$\text{Kat} \quad \boxed{10} - \boxed{7} = \boxed{3}$$

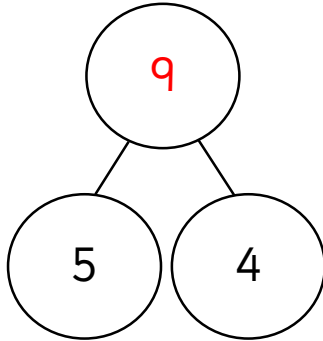
$$\text{Mo} \quad \boxed{100} - \boxed{70} = \boxed{30}$$

Related facts

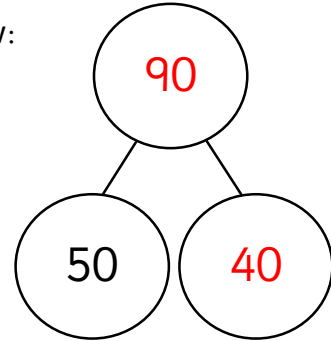


1 Write the missing numbers in the related facts.

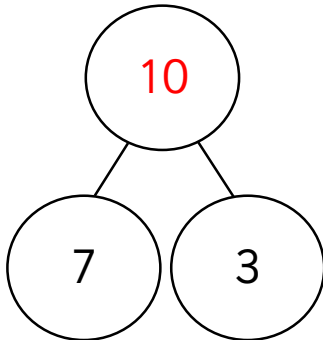
a If I know:



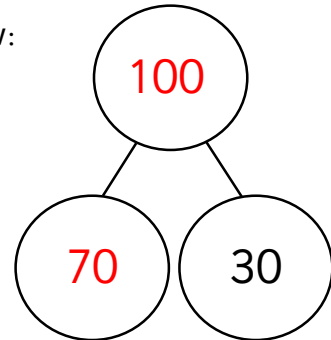
then I know:



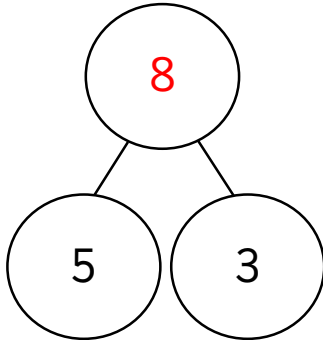
b If I know:



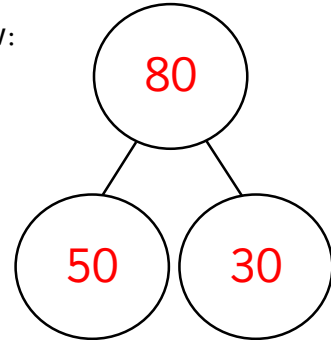
then I know:



c If I know:



then I know:



d If I know $2 + \underline{6} = 8$ then I know $20 + \underline{60} = 80$.

e If I know $\underline{6} + 3 = 9$ then I know $\underline{60} + 30 = \underline{90}$.

f If I know $4 + \underline{6} = 10$ then I know $40 + \underline{60} = \underline{100}$.

g If I know $\underline{8} - 5 = 3$ then I know $\underline{80} - 50 = \underline{30}$.

h If I know $7 - \underline{3} = 4$ then I know $70 - \underline{30} = \underline{40}$.

i If I know $\underline{10} - 6 = 4$ then I know $\underline{100} - 60 = \underline{40}$.

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?

$$\text{Jess} \quad \boxed{5} + \boxed{4} = \boxed{9}$$

$$\text{Dom} \quad \boxed{50} + \boxed{40} = \boxed{90}$$

Rob has 7 pencils and gives away 3.

Sue has 70 pencils and gives away 30.

How many do they each have?

$$\text{Rob} \quad \boxed{7} - \boxed{3} = \boxed{4}$$

$$\text{Sue} \quad \boxed{70} - \boxed{30} = \boxed{40}$$

Kat has 2 pears and receives 8 more.

Ben has 20 pears and receives 80 more.

How many do they each have?

$$\text{Kat} \quad \boxed{2} + \boxed{8} = \boxed{10}$$

$$\text{Ben} \quad \boxed{20} + \boxed{80} = \boxed{100}$$

Matt has 9 balls and gives away 3.

Tam has 90 balls and gives away 30.

How many do they each have?

$$\text{Matt} \quad \boxed{9} - \boxed{3} = \boxed{6}$$

$$\text{Tam} \quad \boxed{90} - \boxed{30} = \boxed{60}$$

Asha has 3 fish and receives 5 more.

Che has 30 fish and receives 50 more.

How many do they each have?

$$\text{Asha} \quad \boxed{3} + \boxed{5} = \boxed{8}$$

$$\text{Che} \quad \boxed{30} + \boxed{50} = \boxed{80}$$

Jack has 10 clips and gives away 4.

Beth has 100 clips and gives away 40.

How many do they each have?

$$\text{Jack} \quad \boxed{10} - \boxed{4} = \boxed{6}$$

$$\text{Beth} \quad \boxed{100} - \boxed{40} = \boxed{60}$$

Gina has 3 cubes and receives 7 more.

Mo has 30 cubes and receives 70 more.

How many do they each have?

$$\text{Gina} \quad \boxed{3} + \boxed{7} = \boxed{10}$$

$$\text{Mo} \quad \boxed{30} + \boxed{70} = \boxed{100}$$

Dom has 8 sweets and gives away 4.

Jess has 80 sweets and gives away 40.

How many do they each have?

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

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

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. **Possible answer:**

$$\boxed{8} - \boxed{5} = \boxed{3}$$

$$\boxed{80} - \boxed{50} = \boxed{30}$$

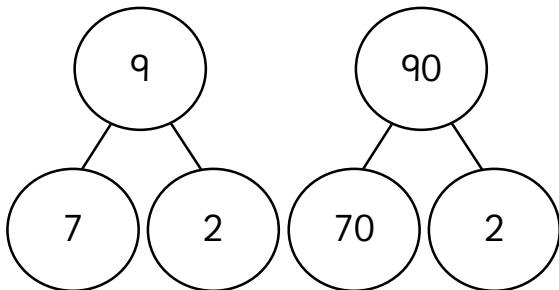
Mo has 7 sweets. He gives 4 away.

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. **Kat has missed the zero off the number 2 so the second part-whole model is incorrect.**

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?

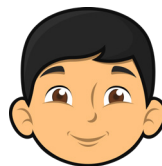
The digits are the same.

The place value changes.

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
 $80 + \underline{\quad} = 100$.

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

As all numbers are 10 times bigger Che will know that $80 + 20 = 100$.

Colour the related facts.

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