

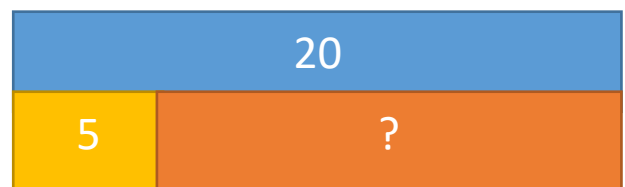
Solve missing



number

problems using

bar model

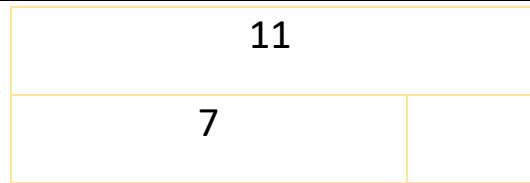


To use a bar model to solve simple missing number calculations.



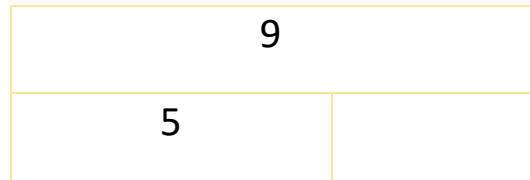
$7 + \underline{\quad} = 11$

$11 - 7 = \underline{\quad}$



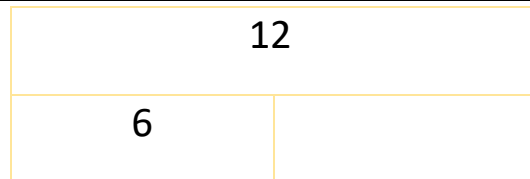
$\underline{\quad} + 5 = 9$

$9 - 5 = \underline{\quad}$



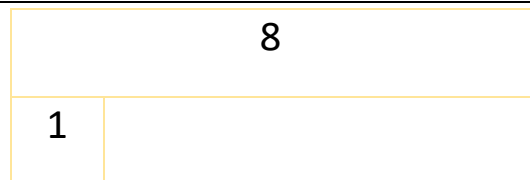
$12 - \underline{\quad} = 6$

$12 - 6 = \underline{\quad}$



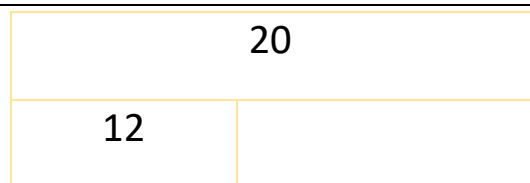
$8 - \underline{\quad} = 1$

$8 - 1 = \underline{\quad}$



$12 + \underline{\quad} = 20$

$20 - 12 = \underline{\quad}$



$5 + \underline{\quad} = 8$

$8 - 5 = \underline{\quad}$



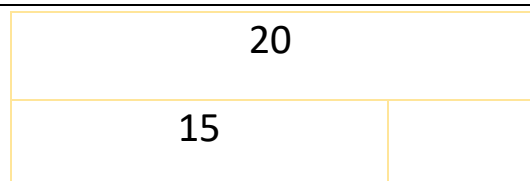
$9 + \underline{\quad} = 18$

$18 - 9 = \underline{\quad}$



$20 - \underline{\quad} = 15$

$20 - 15 = \underline{\quad}$



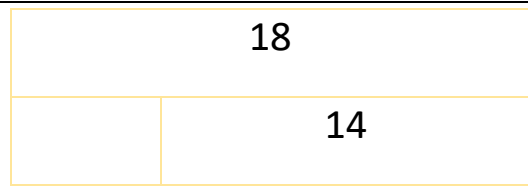
To use a bar model to solve medium level missing number calculations.

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?



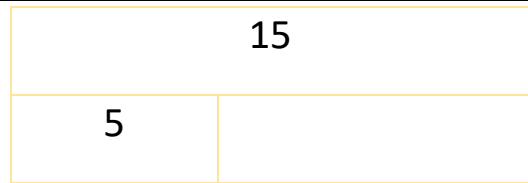
$$14 + \underline{\quad} = 18$$

$$18 - 14 = \underline{\quad}$$



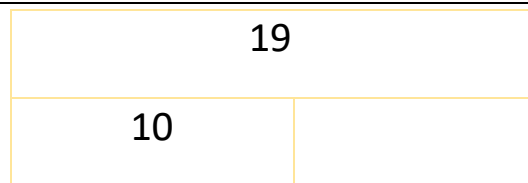
$$15 = \underline{\quad} + 5$$

$$15 - 5 = \underline{\quad}$$



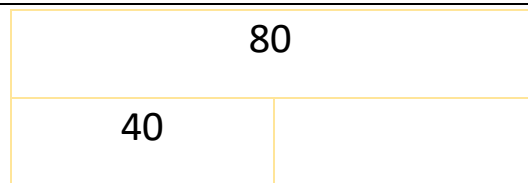
$$19 - \underline{\quad} = 10$$

$$19 - 10 = \underline{\quad}$$



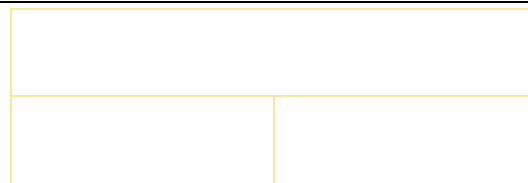
$$80 - \underline{\quad} = 40$$

$$80 - 40 = \underline{\quad}$$



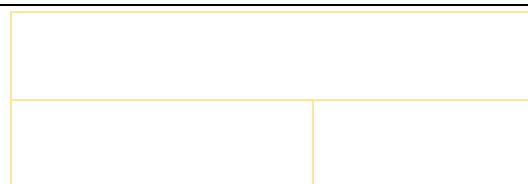
$$\underline{\quad} + 15 = 30$$

$$30 - 15 = \underline{\quad}$$



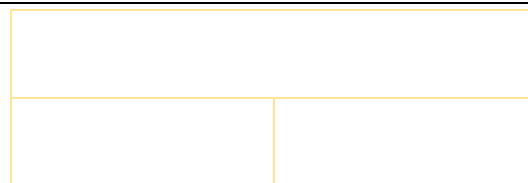
$$57 - \underline{\quad} = 38$$

$$57 - 38 = \underline{\quad}$$



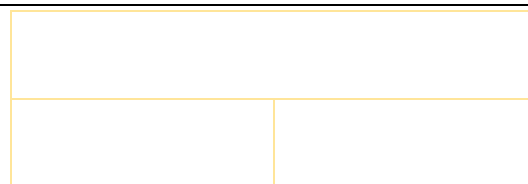
$$\underline{\quad} - 44 = 27$$

$$44 + 27 = \underline{\quad}$$



$$\underline{\quad} + 22 = 64$$

$$64 - 22 = \underline{\quad}$$





To use a bar model to solve complex missing number calculations.

$7 + \underline{\quad} + 1 = 15$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">15</td> </tr> <tr> <td>7</td> <td>1</td> <td></td> </tr> </table>	15			7	1	
15							
7	1						
$9 - \underline{\quad\quad} - 3 = 2$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">9</td> </tr> <tr> <td>3</td> <td>2</td> <td></td> </tr> </table>	9			3	2	
9							
3	2						
$16 = \underline{\quad\quad\quad} + 3 + 5$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">16</td> </tr> <tr> <td>3</td> <td>5</td> <td></td> </tr> </table>	16			3	5	
16							
3	5						
$24 - \underline{\quad\quad\quad} - 3 = 7$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">24</td> </tr> <tr> <td>3</td> <td>7</td> <td></td> </tr> </table>	24			3	7	
24							
3	7						
$9 + \underline{\quad\quad\quad} + 5 = 20$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">20</td> </tr> <tr> <td>9</td> <td>5</td> <td></td> </tr> </table>	20			9	5	
20							
9	5						
$57 - \underline{\quad\quad\quad} - 10 = 38$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3">57</td> </tr> <tr> <td>38</td> <td>10</td> <td></td> </tr> </table>	57			38	10	
57							
38	10						
$20 + 10 + \underline{\quad\quad\quad} = 60$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3"></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>						
$13 - 7 - \underline{\quad\quad\quad} = 2$	<table border="1" style="width: 100%; text-align: center;"> <tr> <td colspan="3"></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>						

More Missing number problems

$31 - 14 = \underline{\quad\quad} - 13$	$12 + \underline{\quad\quad} = 11 + 9$
$\underline{\quad\quad} - 13 = 37 - 15$	$15 + 7 = 13 + \underline{\quad\quad}$
$7 + 3 = 2 + \underline{\quad\quad}$	$\underline{\quad\quad} + 9 = 16 + 8$
$\underline{\quad\quad} + 11 = 25 + 14$	$25 + 11 = \underline{\quad\quad} + 16$
$17 + 15 = \underline{\quad\quad} + 12$	$21 + \underline{\quad\quad} = 14 + 13$
$8 + 18 + 5 = 3 + \underline{\quad\quad} + 15$	$15 - 7 = 13 - \underline{\quad\quad}$
$10 + \underline{\quad\quad} = 12 + 5$	$22 - \underline{\quad\quad} = 21 - 4$
$12 + 6 = \underline{\quad\quad} + 3$	$15 + \underline{\quad\quad} = 17 + 6$
$25 + 5 = 34 - \underline{\quad\quad}$	$21 + 6 = 18 + \underline{\quad\quad}$
$34 - 3 = 28 + \underline{\quad\quad}$	$37 + \underline{\quad\quad} = 49 - 5$
$42 + \underline{\quad\quad} = 70 - 12$	$51 + \underline{\quad\quad} = 67 + 9$

Words problems with Missing numbers

Word Problems	Draw part-whole model
1. Dad had 10 pencils. Mum took some pencils away. Dad was left with 6 pencils. How many pencils did mum take?	
2. I was given 14 presents at my birthday party. My mum gave me 7 more. How many presents do I have now?	
3. There were 20 ducks in the pond. 10 ducks flew off. How many ducks are left?	
4. In the party I had 9 cakes. My friend bought 9 more. How many cakes do I have now?	
5. My friend Kinza had 15 toy cars. I borrowed some cars. Kinza now has 12 toy cars. How many cars did I borrow?	
6. Ali had 10 books. His mum took away 7. How many books does he have now?	
7. Sally was running a 24 mile marathon. After 15 miles she felt very tired. How many more miles did she have to run?	
8. Alex bought a banana for 15p and a pear for 16p. How much does he spend altogether?	
9. Sam has a bag of 60 marbles. His friend gives him 28 more. How many does he have now?	
10. Ali had £10. He bought a DVD for £5.00 and a CD for £2.00. How much money did he have left?	