

# Missing number problems

Find the missing value for each calculation.

1  $a + 64 = 92$

6  $3 \times f + 1 = 31$

2  $42 - b = 39$

Find out what number each letter represents.

7  $45 \times g = 180$

3  $6\frac{1}{2} - c = 5$

8  $2 \times h = 25 + h$

4  $64 \div d = 16$

9  $i \div 8 = 12$

5  $1\frac{1}{2} \times e = 6$

10  $100 - j = j - 40$



**THINK**

$$2 \times b + a = 14$$

$$2 \times a + b = 13$$

Find out what  $a$  and  $b$  are.



I am confident with solving missing number problems.



Find the missing value for each calculation.

1  $20 - a = 17$   $a = \square$

6  $25 \div a = 5$   $a = \square$

2  $3 \times b = 15$   $b = \square$

7  $x + 20 = 36$   $x = \square$

3  $y - 10 = 25$   $y = \square$

8  $7 \times c = 21$   $c = \square$

4  $x + 6 = 14$   $x = \square$

9  $a + b + 2 = 20$   $b = \square$

5  $4 \times c + 1 = 41$   $c = \square$

10  $20 - y = 5$   $y = \square$

Remember,  
each letter is just a  
missing number!



Write pairs of numbers which could  
make each calculation work.

11  $45 + a + b = 55$

13  $m + 7 + n = 15$

12  $13 - c - d = 6$

14  $3 \times g \times h = 30$



Write your own equation with an unknown value  
in it. Work out the answer and test it on a partner.



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On your own, or with a partner, solve these problems.

$$a + 45 + b = 54$$

$$b - a = 3$$

$a + b$  must equal 9.  
Looking at the second  
equation,  $b - a$  must equal 3.  
So  $b$  must be 6 and  
 $a$  must be 3.



Think about what the numbers could be for the first equation in each pair. Use the clues in the second equation to find what the numbers are.

1  $c + 25 + d = 35$

$$c - d = 2$$

$$c = \square \quad d = \square$$

2  $a \times b \times 2 = 24$

$$a - b = 1$$

$$a = \square \quad b = \square$$

3  $34 - x - y = 27$

$$x - y = 5$$

$$x = \square \quad y = \square$$

4  $45 + g + h = 57$

$$g \times h = 11$$

$$g = \square \quad h = \square$$

5  $c \times d \times 3 = 60$

$$d - c = 8$$

$$c = \square \quad d = \square$$

6  $11 - m - n = 7$

$$m \times n = 4$$

$$m = \square \quad n = \square$$

7  $36 \div x = 3y$

$$x + y = 8$$

$$x = \square \quad y = \square$$



If  $c + d + 5 = c \times d$  what could the numbers be?



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Find the value of the letter in each calculation.

1  $6c - 4 = 26$

2  $7r + 9 = 72$

3  $18 - 3b = 0$

4  $12 - n = 4 + n$

5  $6v - 3 = 32 - v$

6  $10 - 2q = 4q + 1$

Find a pair of numbers that work in both equations.

7  $m + 2n - 3 = 11$   
 $m + n = 9$

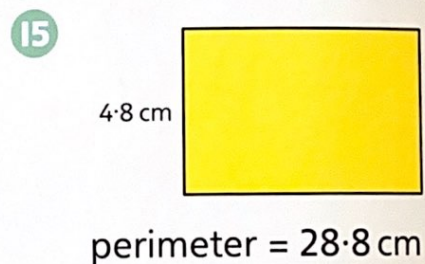
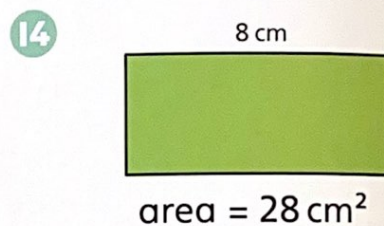
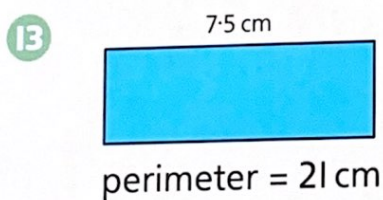
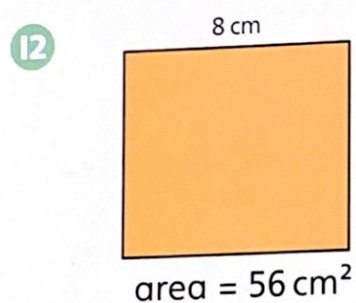
8  $2t + s = 9$   
 $t + 2s = 7.5$

9  $p + q = 10$   
 $3p - q = 2$

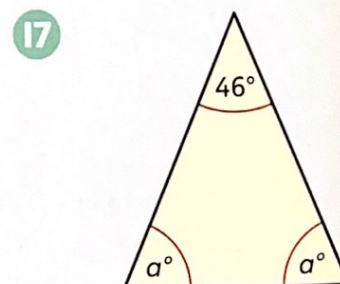
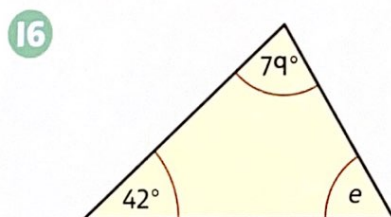
10  $w - 2y = 7$   
 $2w + y = 21.5$


11  $3a + b = 9$   
 $b - a = 5$

Find the lengths of the missing sides.



Find the missing angles.



 I am confident with finding a missing value in a problem.