

# Express Missing Number Problems Algebraically

For each question, express the problems algebraically and then solve the problem.

Example:

Twelve more than three times a number is 36. What is the number?

$$3n+12=36$$

$$12+3n=36$$

Note: With addition, answers can be either way round:  $n+16=35$ ,  $16+n=35$ ; but not subtraction.

1. Ten less than two times a number is 24. What is the number?

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2. 15 is added to three times a number. What is the number?

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3. Fifteen is subtracted from four times a number to make 29. What is the number?

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4. Nineteen more than two times a number is 43. What is the number?

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5. Five times a number has thirteen added to it to make 58. What is the number?

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6. What number is multiplied by 4 and has 23 added to it to make 55?

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7. What number has nineteen subtracted from it to make twenty-five?

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8. 56 is the total of twenty three and three times a number. What is the number?

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## Challenge

Write some of your own questions for others to work out.