

# Writing Algebraic Expressions

Algebraic expressions help us make calculations easier and solve problems more efficiently.

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## GENTLE START

Write the algebraic expression.

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 1 The sum of $p$ and four _____ | 5 A product of $y$ and three _____ |
| 2 Five less than $x$ _____      | 6 Five decreased by $p$ _____      |
| 3 Eight times $y$ _____         | 7 Two more than $z$ _____          |
| 4 Half of $d$ _____             | 8 $y$ doubled _____                |

## STEADY CLIMB

- |   |       |
|---|-------|
| 9 Six multiplied by a number and decreased by two | _____ |
| 10 A number divided by three and decreased by one | _____ |
| 11 Eleven times a number plus five                | _____ |
| 12 The difference of ten and 2 times a number     | _____ |

## PEAK CHALLENGE

- |  |       |
|--|-------|
| 13 A number plus eight is equal to twenty-four     | _____ |
| 14 Twice a number increased by three equals eleven | _____ |
| 15 Four times a number minus five equals sixteen   | _____ |
| 16 The sum of a number and eight, divided by two   | _____ |

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## GENTLE START

Write the algebraic expression.

- |   |                         |                                 |   |                            |         |
|---|-------------------------|---------------------------------|---|----------------------------|---------|
| 1 | The sum of $p$ and four | $p + 4$                         | 5 | A product of $y$ and three | $3y$    |
| 2 | Five less than $x$      | $x - 5$                         | 6 | Five decreased by $p$      | $5 - p$ |
| 3 | Eight times $y$         | $8y$                            | 7 | Two more than $z$          | $z + 2$ |
| 4 | Half of $d$             | $\frac{1}{2}d$ or $\frac{d}{2}$ | 8 | $y$ doubled                | $2y$    |

## STEADY CLIMB

- |    |   |                   |
|----|---|-------------------|
| 9  | Six multiplied by a number and decreased by two | $6x - 2$          |
| 10 | A number divided by three and decreased by one  | $\frac{x}{3} - 1$ |
| 11 | Eleven times a number plus five                 | $11x + 5$         |
| 12 | The difference of ten and 2 times a number      | $10 - 2x$         |

## PEAK CHALLENGE

- |    |   |                   |
|----|---|-------------------|
| 13 | A number plus eight is equal to twenty-four     | $x + 8 = 24$      |
| 14 | Twice a number increased by three equals eleven | $2x + 3 = 11$     |
| 15 | Four times a number minus five equals sixteen   | $4x - 5 = 16$     |
| 16 | The sum of a number and eight, divided by two   | $\frac{x + 8}{2}$ |