# Collecting like terms

**1**

Simplify $4x + 2 + x + 3$



| $x$ | number |
|---|---|
| $4x$ | |
| | |

Answer _____

**2**

Simplify $2x + 3y + x + y$



| $x$ | $y$ |
|---|---|
| | |
| | |

Answer _____

**3**

Simplify $6a + 2b - 4a + 3b$

| $a$ | $b$ |
|---|---|
| | |
| | |

Answer _____

**4**

Simplify $7y + 5 - 3y - 8$

| $y$ | number |
|---|---|
| | |
| | |

Answer _____

**5**

Which of these are like terms with $4x$?
Ring each one.

$7x$ $\quad$ $4y$ $\quad$ $x^2$

$2x$ $\quad$ $4$ $\quad$ $-x$

Answer _____

**6**

Simplify $3x^2 + 4x + 2x^2 - x$

| $x^2$ | $x$ |
|---|---|
| | |
| | |

Answer _____

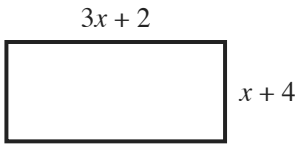
**7**

Priya simplifies $4a + 3b$ and writes $7ab$. What has she done wrong?

Answer _____

**8**

Write an expression for the perimeter of this rectangle. Simplify your answer.




Answer _____

# Collecting like terms *further practice*

**9**

Simplify $5p + 2q - 3p + 4r - q$

**Answer** _____

**10**

Simplify $3ab + 2ba - ab$

**Answer** _____

**11**

Simplify $2m - 6n - 5m + n$

**Answer** _____

**12**

Simplify $4x^2 - 3x + 5 - x^2 + 7x - 2$

**Answer** _____

**13**

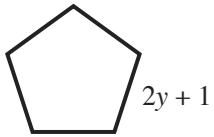
Find the missing term.

$4x + \square - 2y + 3x = 7x + 5y$

**Answer** _____

**14**

Each side of this regular pentagon is $2y + 1$. Write an expression for its perimeter.




**Answer** _____

**15**

A pen costs $p$ pence and a ruler costs $r$ pence. Mo buys 3 pens and 2 rulers. Ella buys 4 pens and 1 ruler. Write an expression for the total they spend.

**Answer** _____

**16**

Lee says $5x - 2x + 4 = 7$. Is he right? Explain your answer.

**Answer** _____