Simultaneous

Syllabus tracker Open it online

Name: _____

Date: _____

Tick one circle for each statement — on screen (click) or with a pen. Then try the quick checks: write your answer in the box, check it against the answers at the end, and tick “right” when you got it.

Elimination

Adding or subtracting the equations to remove one unknown.

	Don't know	Shaky	Got it
I can solve simultaneous linear equations by elimination.	○	○	○
I can multiply an equation first so the coefficients match.	○	○	○

Substitution and problems

Substituting one equation into the other; forming equations from words.

	Don't know	Shaky	Got it
I can solve simultaneous equations by substitution.	○	○	○
I can form and solve simultaneous equations from a word problem.	○	○	○
I can solve one linear and one quadratic equation together.	○	○	○

Quick checks

One quick question per statement. Answer in the box, then check the answers at the end.

1. Solve $3x + 2y = 16$ and $x - 2y = 0$.

Answer: _____ ☐ I got it right

2. Solve $2x + 3y = 12$ and $5x - 2y = 11$.

Answer: _____ ☐ I got it right

3. Solve $y = 2x - 1$ and $3x + y = 14$.

Answer: _____ ☐ I got it right

4. 3 pens and 2 rulers cost $13. 1 pen and 2 rulers cost $7. How much is one pen, in dollars?

Answer: _____ ☐ I got it right

5. Solve $y = x + 1$ and $y = x^2 - 1$. Which gives both solutions?
A (2, 3) and (–1, 0) **B** (2, 3) and (1, 2) **C** (–2, –1) and (1, 2) **D** (1, 2) and (–1, 0)

Answer: _____ ☐ I got it right

Answers

Try every question first, then check.

1. (4, 2)
2. (3, 2)
3. (3, 5)
4. 3
5. A: (2, 3) and (–1, 0)