**Task card 1** One, No, or Infinitely Many Soluti...

$$5(x + 2) = 7 + 5x$$

**Task card 2** One, No, or Infinitely Many Soluti...

$$2(x - 8) + 5x = 7x - 10$$

**Task card 3** One, No, or Infinitely Many Soluti...

$$3(x - 1) = -3 + 3x$$

**Task card 4** One, No, or Infinitely Many Soluti...

$$2(x - 1) - 3x = -(x - 1) + 2$$

**Task card 5** One, No, or Infinitely Many Soluti...

$$-7(x - 1) = -10 - 4x$$

**Task card 6** One, No, or Infinitely Many Soluti...

$$6(x - 3) - x = -2(x + 4) - 3$$

**Task card 7** One, No, or Infinitely Many Soluti...

$$-5(x - 6) = -5x + 30$$

**Task card 8** One, No, or Infinitely Many Soluti...

$$7(x + 5) + 4x = 11x + 35$$

**Task card 9** One, No, or Infinitely Many Soluti...

$$-8(x + 3) = -8(x + 2) - 8$$

**Task card 10** One, No, or Infinitely Many Soluti...

$$3(x + 5) + 3x = 6(x + 5) - 23$$

**Task card 11** One, No, or Infinitely Many Soluti...

$$-(x + 8) = -(x + 4) - 4$$

**Task card 12** One, No, or Infinitely Many Soluti...

$$9(x + 2) - 7x = 2x + 18$$

**Task card 13** One, No, or Infinitely Many Soluti...

$$-8(x + 4) = -8(x + 2) - 10$$

**Task card 14** One, No, or Infinitely Many Soluti...

$$4(x - 3) - 6x = 4x + 13$$

**Task card 15** One, No, or Infinitely Many Soluti...

$$9(x + 8) = -4(x + 6) + 38$$

**Task card 16** One, No, or Infinitely Many Soluti...

$$2(x + 2) + 3x = 5(x + 2) - 6$$

**Task card 17** One, No, or Infinitely Many Soluti...

$$-6(x + 8) = -48 - 6x$$

**Task card 18** One, No, or Infinitely Many Soluti...

$$6(x - 8) - x = 5(x + 6) - 70$$

**Task card 19** One, No, or Infinitely Many Soluti...

$$-5(x + 6) = 4x + 12$$

**Task card 20** One, No, or Infinitely Many Soluti...

$$6(x + 1) - 9x = -3x$$

**Task card 21** One, No, or Infinitely Many Soluti...

$$-9(x - 2) = 8x + 8$$

**Task card 22** One, No, or Infinitely Many Soluti...

$$9(x + 5) + 2x = 45 + 11x$$

**Task card 23** One, No, or Infinitely Many Soluti...

$$-3(x + 3) = -3(x + 1) - 6$$

**Task card 24** One, No, or Infinitely Many Soluti...

$$8(x - 1) - x = -8 + 7x$$

# One, No, or Infinitely Many Solutions Task Cards

Recording sheet · Grade 8 · Write "one solution", "no solution", or "infinitely many solutions" for each equation.

Scan to check your answers

Name: _____ Date: _____

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 |

# One, No, or Infinitely Many Solutions Task Cards: Answer Key

Grade 8 · Hard

The answers online

| | | |
|---|---|---|
| **1.** no solution | **2.** no solution | **3.** infinitely many solutions |
| **4.** no solution | **5.** one solution | **6.** one solution |
| **7.** infinitely many solutions | **8.** infinitely many solutions | **9.** infinitely many solutions |
| **10.** no solution | **11.** infinitely many solutions | **12.** infinitely many solutions |
| **13.** no solution | **14.** one solution | **15.** one solution |
| **16.** infinitely many solutions | **17.** infinitely many solutions | **18.** no solution |
| **19.** one solution | **20.** no solution | **21.** one solution |
| **22.** infinitely many solutions | **23.** infinitely many solutions | **24.** infinitely many solutions |