GCSE Maths: Forming simultaneous equations from words (Foundation): worksheet

GCSE Maths - Quadratic and Simultaneous Equations - Foundation - Lesson 14.8

Name: _____ Date: _____ Score: _____

14 questions. Write your answers in the spaces. Answers and step-by-step help are free at **websink.site/gcse/maths/ch14-quadratics-simultaneous/foundation/forming-simultaneous-equations-from-words/**

Exercise 14H Forming simultaneous equations from words (Non-calculator)

1 2 pens and 1 book cost £7. 1 pen and 1 book cost £5. Work out the cost of one pen and the cost of one book.

Answer:

2 2 adult tickets and 3 child tickets cost £45. 3 adult tickets and 1 child ticket cost £43. Work out the cost of one adult ticket and the cost of one child ticket.

Answer:

3 2 coffees and 1 cake cost £8. 1 coffee and 3 cakes cost £9. Work out the cost of one coffee and the cost of one cake.

Answer:

4 3 pens and 5 pencils cost £14. 2 pens and 4 pencils cost £10. Work out the total cost of 4 pens and 4 pencils.

Answer:

5 3 burgers and 2 portions of chips cost £19. 2 burgers and 3 portions of chips cost £16. Work out the cost of one burger and the cost of one portion of chips.

Answer:

6 3 notebooks and 2 rulers cost £18. 1 notebook and 4 rulers cost £16. Work out the total cost of 1 notebook and 1 ruler.

Answer:

7 The sum of two numbers is 47 and their difference is 9. Find the numbers.

Answer:

8 Two numbers add to 52. Twice the larger number plus the smaller number is 80. Find the numbers.

Answer:

9 Sam is 28 years older than his son. In 6 years' time Sam will be three times as old as his son. Find their ages now.

Answer:

10 The perimeter of a rectangular field is 140 m. The length is 10 m more than the width. Find the area of the field.

Answer:

11 A jar contains 24 coins. They are all 10p and 20p coins and are worth £3.40 altogether (340p). How many coins of each kind are there?

Answer:

12 A taxi company charges a fixed fee plus a rate per kilometre. A 5 km journey costs £11 and an 8 km journey costs £17. Find the fixed fee and the charge per kilometre.

Answer:

13 Mia thinks of two numbers. Three times the first number plus the second number is 17. The first number plus twice the second is 9. What are the numbers?

Answer:

14 The digits of a two-digit number add up to 11. When the digits are reversed, the number increases by 27. Find the original number.

Answer:

© Websink Prep UK. Free for classroom and home use; please do not resell. websink.site