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

GCSE Maths - Linear Equations - Foundation - Lesson 9.7

Name: _____ Date: _____ Score: _____

13 questions. Write your answers in the spaces. Answers and step-by-step help are free at **websink.site/gcse/maths/ch09-linear-equations/foundation/forming-equations-from-words/**

## Exercise 9G Forming and solving equations from words (Non-calculator)

**1** **Write each phrase as an algebraic expression. Use $x$ for the number.**

**(a)** a number plus 5

Answer:

**(b)** 3 less than a number

Answer:

**(c)** twice a number

Answer:

**(d)** a number divided by 4

Answer:

**(e)** 3 more than twice a number

Answer:

**(f)** twice the sum of a number and 3

Answer:

**2** **Write an equation for each sentence, solve it, and write down the number.**

**(a)** Max thinks of a number. He adds 7 and gets 15.

Answer:

**(b)** Mia thinks of a number. She subtracts 6 and gets 11.

Answer:

**(c)** Half of a number, plus 3, equals 11.

Answer:

**(d)** 5 less than 3 times a number is 22.

Answer:

**3** **A plumber charges a call-out fee of £35 plus £25 for each hour of work. Sandeep's bill is £135. For how many hours did the plumber work?**

Answer:

**4** **Ben is 4 years older than Cara. The total of their ages is 30. How old is Cara?**

Answer:

**5** **A pen costs £$x$. Three pens and a ruler costing £2 cost £11 altogether. Work out the cost of one pen.**

Answer:

**6** A phone plan costs 1200 pence a month plus 5 pence for every minute of calls. One month the bill is 1500 pence. How many minutes of calls were made?

Answer:

**7** Zara is three times as old as her brother. The sum of their ages is 36. How old is Zara?

Answer:

**8** Sam buys 4 identical notebooks and a pen costing £3. He pays with £20 and gets £5 change. How much does one notebook cost?

Answer:

**9** Three consecutive whole numbers add up to 51. Work out the smallest of the numbers.

Answer:

**10** Gym A charges £20 to join and then £10 each month. Gym B charges £50 to join and then £5 each month. After how many months will the total cost for the two gyms be the same?

Answer:

**11** Hana says: "5 less than a number is 17, so the equation is $5 - x = 17$." Explain what is wrong, then solve the correct equation.

Answer:

**12** Kim thinks of a number, adds 7 and gets 15. What is her number?

Answer:

**13** A box holds 6 identical pencils and costs £3. How much is one pencil, in pence?

Answer:

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