

Form and Solve Linear Equations from Simple Contexts: Exercise



- 1 Fatima thinks of a number a . She adds 3 to it. The answer is 27. Find the number that Fatima was thinking of.
- 2 Niko thinks of a number b . He multiplies it by 4. The answer is 60. Find the number that Niko was thinking of.
- 3 Amal thinks of a number c . She doubles it and then adds 8. The answer is 28. Find the number that Amal was thinking of.
- 4 Alice thinks of a number d . She subtracts 3 from it, then multiplies it by 5. The answer is 40. Find the number that Alice was thinking of.
- 5 Freddie thinks of a number f . He divides it by 6 and then adds 4. The answer is 5. Find the number that Freddie was thinking of.
- 6 Shirley thinks of a number g . She adds 4 and then divides the result by 5. The answer is 2. Find the number that Shirley was thinking of.
- 7 Tlaal thinks of a number h . He multiplies it by 3, then subtracts 2 from it, then divides it by 5. The answer is 11. Find the number that Shirley was thinking of.
- 8 The ages of three cats are a , $a + 4$ and $2a - 3$. Their total age is 21. Determine a .
- 9 [OCR Additional Maths June 2015 Q6i] You are given that n is a positive integer and $(n - 1)$, n , $(n + 1)$ are three consecutive integers. The three integers add up to 99. Form an equation in n and solve it.
- 10 Ahmad, Billie and Chase are swapping football stickers. Ahmad has x stickers, Billie has 4 more than Ahmad, and Chase has three times as many as Ahmad. They have 79 in total. How many stickers does Ahmad have?
- 11 [Edexcel IGCSE Jan 2020 2H(R) Q3] Three tins, A , B and C , each contain buttons. Tin A contains x buttons. Tin B contains 4 times the number of buttons that tin A contains. Tin C contains 7 fewer buttons than tin A . The total number of buttons in the three tins is 137. Work out the number of buttons in tin C .
- 12 A cake costs £5. A drink costs $£x$. Wesley buys 3 cakes and 5 drinks, and the total cost was £21. Find the cost of the drink.
- 13 Phil is y years old. Bill is 2 years older than Phil. Will is twice as old as Bill. The total of their ages is 54. How old is Bill?
- 14 [OCR GCSE(9-1) Nov 2019 1F Q9] Mr and Mrs Jones buy cinema tickets for themselves and their three children. The cost of an adult ticket is £6 more than a child ticket. The total cost of the five tickets is £45. Work out the cost of an adult ticket.
- 15 Imogen has 120 teddy bears. She gives 3 to a charity shop every day until she is left with 30 of them. How many days does she do this for?
- 16 [OCR GCSE(9-1) June 2019 1F Q25, 4H Q5] Bennie is 7 years older than Ayesha. Chloe is twice as old as Bennie. The sum of their three ages is 57. Work out the ages of Ayesha, Bennie and Chloe.