



# Worksheet 11

Year 3 Mathematics — Australian Curriculum v9.0

Subtopic: Unknown Values in Addition and Subtraction

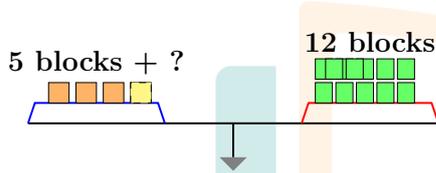
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## Section 1: Fluency — Visual Balance Scales (Questions 1–10)

**Instructions:** Find the missing number to balance the scale.

**Question 1:**  $5 + ? = 12$



Answer:  $? =$  \_\_\_\_\_

**Question 2:**  $8 + ? = 15$

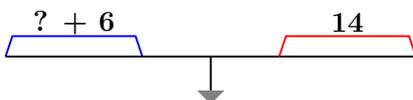


Answer:  $? =$  \_\_\_\_\_

**Question 3:** Find the missing number:  $12 + ? = 20$

Answer: \_\_\_\_\_

**Question 4:**  $? + 6 = 14$





Answer: ? = \_\_\_\_\_

**Question 5:** Balance the scale:  $7 + ? = 18$

Answer: \_\_\_\_\_

**Question 6:**  $15 + ? = 25$

Answer: \_\_\_\_\_

**Question 7:**  $? + 9 = 22$

Answer: \_\_\_\_\_

**Question 8:** Find the unknown:  $13 + ? = 30$

Answer: \_\_\_\_\_

**Question 9:**  $? + 12 = 28$

Answer: \_\_\_\_\_



Question 10: Balance:  $18 + ? = 35$

Answer: \_\_\_\_\_



### Good Job!

What did the zero say to the eight? Nice belt!

## Section 2: Reasoning — Number Sentences (Questions 11–20)

Instructions: Find the missing number in each equation.

Question 11:  $24 + \dots = 50$

Answer: \_\_\_\_\_

Question 12:  $\dots + 15 = 30$

Answer: \_\_\_\_\_

Question 13:  $32 + \dots = 60$

Answer: \_\_\_\_\_

Question 14:  $\dots + 25 = 45$



Answer: \_\_\_\_\_

Question 15:  $17 + \dots = 40$

Answer: \_\_\_\_\_

Question 16:  $\dots + 19 = 50$

Answer: \_\_\_\_\_

Question 17:  $28 + \dots = 55$

Answer: \_\_\_\_\_

Question 18:  $\dots + 34 = 70$

Answer: \_\_\_\_\_

Question 19:  $45 + \dots = 80$

Answer: \_\_\_\_\_



Question 20:  $\_\_\_ + 27 = 65$

Answer: \_\_\_\_\_



### Good Job!

Why was the math book sad? It had too many problems!

## Section 3: Challenge — Word Problems (Questions 21–30)

**Instructions:** Read carefully and find the unknown value.

**Question 21:** I have some stickers. I buy 15 more. Now I have 45. How many did I start with?

Answer: \_\_\_\_\_

**Question 22:** Emma scored some points. Then she scored 12 more points. Her total is now 38 points. How many points did she start with?

Answer: \_\_\_\_\_

**Question 23:** A library had some books. They bought 25 new books. Now they have 80 books. How many books did they start with?

Answer: \_\_\_\_\_



**Question 24:** Josh has some marbles. His friend gives him 18 more. Now he has 50 marbles. How many did Josh have at first?

**Answer:** \_\_\_\_\_

**Question 25:** A farmer planted some trees. She planted 14 more trees the next week. Now she has 45 trees. How many trees did she plant at first?

**Answer:** \_\_\_\_\_

**Question 26:** Tom collected some shells. He found 22 more at the beach. Now he has 60 shells. How many shells did Tom have before?

**Answer:** \_\_\_\_\_

**Question 27:** Sarah saved some money. Her dad gave her \$16. Now she has \$48. How much money did Sarah have at the start?

**Answer:** \_\_\_\_\_

**Question 28:** A shop had some toys. They received a delivery of 35 more toys. Now they have 90 toys. How many toys did they have before the delivery?

**Answer:** \_\_\_\_\_



**Question 29:** Lisa read some pages of her book. She read 28 more pages today. She has now read 75 pages. How many pages had she read before today?

**Answer:** \_\_\_\_\_

**Question 30:** A zoo had some animals. They got 19 new animals. Now they have 65 animals. How many animals did the zoo have at first?

**Answer:** \_\_\_\_\_



**Good Job!**

What's a detective's favourite subject? Mystery-matics!

**Excellent Work! You've completed Worksheet 11!**



# Answer Key — Worksheet 11

Year 3 Mathematics

## Section 1: Fluency

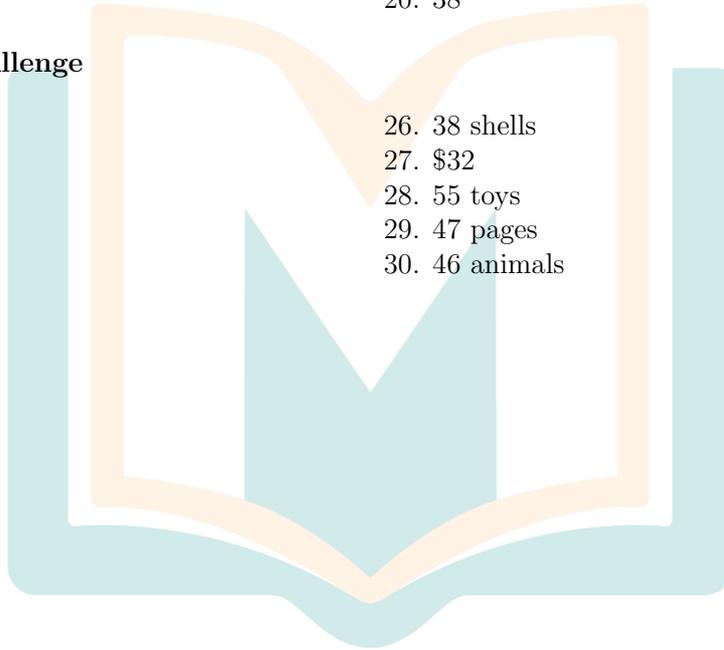
1. 7
2. 7
3. 8
4. 8
5. 11
6. 10
7. 13
8. 17
9. 16
10. 17

## Section 2: Reasoning

11. 26
12. 15
13. 28
14. 20
15. 23
16. 31
17. 27
18. 36
19. 35
20. 38

## Section 3: Challenge

21. 30 stickers
22. 26 points
23. 55 books
24. 32 marbles
25. 31 trees
26. 38 shells
27. \$32
28. 55 toys
29. 47 pages
30. 46 animals





## Worksheet 12

Year 3 Mathematics — Australian Curriculum v9.0

Subtopic: Unknown Values in Addition and Subtraction

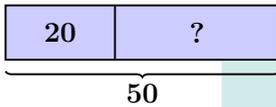
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### Section 1: Fluency — Part-Part-Whole Models (Questions 1–10)

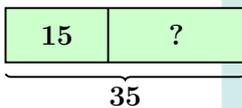
**Instructions:** Use the bar model to find the missing part.

**Question 1:** The total is 50. One part is 20. What is the missing part?



Answer:  $50 - 20 =$  \_\_\_\_\_

**Question 2:** Total is 35. One part is 15. Find the missing part.

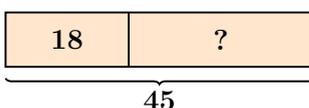


Answer:  $? =$  \_\_\_\_\_

**Question 3:** Total: 60. Known part: 25. Unknown part: ?

Answer:  $60 - 25 =$  \_\_\_\_\_

**Question 4:** Complete:  $45 - 18 = ?$





Answer: ? = \_\_\_\_\_

**Question 5:** Find the missing part: Total = 80, One part = 35

Answer: \_\_\_\_\_

**Question 6:**  $70 - 28 = ?$

Answer: \_\_\_\_\_

**Question 7:** Total is 55. One part is 22. Find the other part.

Answer: \_\_\_\_\_

**Question 8:**  $90 - 37 = ?$

Answer: \_\_\_\_\_

**Question 9:** The whole is 65. One part is 29. What is the missing part?

Answer: \_\_\_\_\_



Question 10:  $100 - 43 = ?$

Answer: \_\_\_\_\_



### Good Job!

Why did seven eat nine? Because you're supposed to eat three squared meals a day!

## Section 2: Reasoning — Missing Minuends and Subtrahends (Questions 11–20)

**Instructions:** Find the missing number in each subtraction equation.

Question 11:  $\_\_\_ - 10 = 50$

Answer: \_\_\_\_\_

Question 12:  $35 - \_\_\_ = 20$

Answer: \_\_\_\_\_

Question 13:  $\_\_\_ - 15 = 40$

Answer: \_\_\_\_\_



Question 14:  $60 - \dots = 28$

Answer: \_\_\_\_\_

Question 15:  $\dots - 24 = 36$

Answer: \_\_\_\_\_

Question 16:  $75 - \dots = 43$

Answer: \_\_\_\_\_

Question 17:  $\dots - 18 = 52$

Answer: \_\_\_\_\_

Question 18:  $90 - \dots = 55$

Answer: \_\_\_\_\_

Question 19:  $\dots - 27 = 48$



Answer: \_\_\_\_\_

Question 20:  $85 - \_\_\_ = 39$

Answer: \_\_\_\_\_



**Good Job!**

What do you call a missing number? Non-existent!

### Section 3: Challenge — Two-Step Unknowns (Questions 21–30)

**Instructions:** Work backwards to find the mystery number.

**Question 21:** I think of a number. I subtract 5, then I add 10. The answer is 25. What is my number?

Answer: \_\_\_\_\_

**Question 22:** I start with a number. I subtract 12. The result is 30. What number did I start with?

Answer: \_\_\_\_\_

**Question 23:** A mystery number minus 8 equals 42. What is the mystery number?



Answer: \_\_\_\_\_

**Question 24:** When I subtract 15 from a number, I get 35. What is the number?

Answer: \_\_\_\_\_

**Question 25:** I think of a number. I subtract 20, then add 5. The answer is 30. What was my starting number?

Answer: \_\_\_\_\_

**Question 26:** A number minus 18 gives 47. Find the number.

Answer: \_\_\_\_\_

**Question 27:** I start with a number, subtract 25, and get 55. What was my original number?

Answer: \_\_\_\_\_

**Question 28:** When 14 is subtracted from a mystery number, the result is 56. Find the mystery number.



Answer: \_\_\_\_\_

**Question 29:** I think of a number. I subtract 30. The answer is 45. What number did I think of?

Answer: \_\_\_\_\_

**Question 30:** A number minus 22 equals 68. What is the number?

Answer: \_\_\_\_\_



### Good Job!

Why did the student bring a ladder to math class? To solve high-level problems!

**Fantastic! You've completed Worksheet 12!**



# Answer Key — Worksheet 12

Year 3 Mathematics

## Section 1: Fluency

1. 30
2. 20
3. 35
4. 27
5. 45
6. 42
7. 33
8. 53
9. 36
10. 57

## Section 2: Reasoning

11. 60
12. 15
13. 55
14. 32
15. 60
16. 32
17. 70
18. 35
19. 75
20. 46

## Section 3: Challenge

- |                                   |        |
|-----------------------------------|--------|
| 21. 20 ( $20-5=15$ , $15+10=25$ ) | 26. 65 |
| 22. 42                            | 27. 80 |
| 23. 50                            | 28. 70 |
| 24. 50                            | 29. 75 |
| 25. 45 ( $45-20=25$ , $25+5=30$ ) | 30. 90 |

