

**ROBINSON'S BEGINNER'S BOOK
IN ARITHMETIC: INTRODUCTORY
TO ROBINSON'S COMPLETE
ARITHMETIC**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649128266

Robinson's beginner's book in arithmetic: introductory to Robinson's complete arithmetic by
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Cover @ 2017

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ROBINSON, BLAKEMAN, TAYLOR, & COMPANY
PUBLISHERS
NEW YORK AND CHICAGO

CHAPTER I.

SUGGESTIONS TO TEACHERS.

After the method pursued in the first three lessons the teacher will please develop in the minds of the pupils the idea of the numbers from 11 to 20 inclusive, by the use of various kinds of objects, or of lines upon the black-board. These artificial helps should be abandoned at the earliest practicable moment, and the pupils led to rely upon the unaided power of the mind. The natural and progressive development suggested in the first three lessons, it is believed, will reduce the use of these helps to the minimum. Two aims in teaching numbers should always be kept in mind. 1st, To learn accuracy and facility in the operations of Addition, Subtraction, Multiplication and Division; and 2d, To learn when these operations are demanded in the solution of concrete problems.

The teacher will not proceed to Lesson IV until the development of the numbers mentioned above is secured.

The teacher should require pupils to use complete sentences in answer to questions.



LESSON I.

NUMBER 11.

- TEACHER. Ten balls and one ball are how many balls?
PUPIL. Ten balls and one ball are eleven balls.
- T. Eleven balls less one ball are how many balls?
P. Eleven balls less one ball are ten balls.
- T. Nine books and two books are how many books?
P. Nine books and two books are eleven books.
- T. Eleven books less two books are how many books?
P. Eleven books less two books are nine books.
- T. What other two numbers of things are eleven things?
P. *Eight things and three things are eleven things; or, Seven things and four things are eleven things. Etc.*
- T. How is the number eleven shown by figures?
P. The number eleven is shown by figures in this way: *11*.
- 11 feet less 1 foot are how many feet?
10 hours and how many hours are 11 hours?
How many days and 1 day are 11 days?
11 pints less how many pints are 10 pints?
How many quarts less 1 quart are 10 quarts?
11 dollars less 2 dollars are how many dollars?
11 miles less 3 miles are how many miles?
9 gallons and 2 gallons are how many gallons?
8 pears and how many pears are 11 pears?
11 cents less how many cents are 3 cents?
11 eggs less 3 eggs are how many eggs?
Etc.

LESSON II.

NUMBER 12.

TEACHER. Eleven chairs and one chair are how many chairs ?

PUPIL. Eleven chairs and one chair are twelve chairs.

T. Twelve chairs less one chair are how many chairs ?

P. Twelve chairs less one chair are eleven chairs.

T. Ten keys and two keys are how many keys ?

P. Ten keys and two keys are twelve keys.

T. Twelve keys less two keys are how many keys ?

P. Twelve keys less two keys are ten keys.

T. What other two numbers of things are twelve things ?

P. *Nine* things and *three* things are *twelve* things; or
Eight things and *four* things are *twelve* things. *Etc.*

T. How is the number twelve shown by figures ?

P. The number twelve is shown by figures in this way: 12.

12 birds less 1 bird are how many birds ?

12 pens less how many pens are 11 pens ?

How many shells and 1 shell are 12 shells ?

11 berries and how many berries are 12 berries ?

How many coats less 1 coat are 11 coats ?

12 lessons less 2 lessons are how many lessons ?

12 corks less 3 corks are how many corks ?

9 sheep and how many sheep are 12 sheep ?

12 peaches less 4 peaches are how many peaches ?

8 plums and how many plums are 12 plums ?

12 melons less how many melons are 9 melons ?

How many cars are 2 cars and 10 cars ?

Etc.

LESSON III.

NUMBER 13.

TEACHER. Twelve apples and one apple are how many apples?

PUPIL. Twelve apples and one apple are thirteen apples.

T. Thirteen apples less one apple are how many apples?

P. Thirteen apples less one apple are twelve apples.

T. Ten cherries and three cherries are how many cherries?

P. Ten cherries and three cherries are thirteen cherries.

T. Nine girls and four girls are how many girls?

P. Nine girls and four girls are thirteen girls.

T. Thirteen hats less one hat are how many hats?

P. Thirteen hats less one hat are twelve hats.

T. Thirteen cents less four cents are how many cents?

P. Thirteen cents less four cents are nine cents.

T. What other two numbers of things are thirteen things?

P. Eleven things and two things are thirteen things; or,
Nine things and four things are thirteen things. *Etc.*

T. How is the number thirteen shown by figures?

P. The number thirteen is shown by figures in this way: 13.

13 stars less 1 star are how many stars?

12 hoes and how many hoes are 13 hoes?

How many dogs and 3 dogs are 13 dogs?

How many miles less 4 miles are 9 miles?

13 horses less 5 horses are how many horses?

13 lines less how many lines are 10 lines?

9 days and how many days are 13 days?

8 buttons and how many buttons are 13 buttons?

Etc.

LESSON IV.

2 more than 11 equals what?
 2 less than 12 equals what?
 2 more than 12 equals what?
 2 less than 13 equals what?
 2 more than 14 equals what?
 2 less than 15 equals what?
 What equals 2 more than 16?
 What equals 2 less than 17?
 What equals 2 more than 18?
 What equals 2 less than 21?
 What equals 2 more than 21?
 What equals 2 less than 24?

LESSON V.

13 equals 2 more than what?
 12 equals 2 less than what?
 14 equals 2 more than what?
 14 equals 2 less than what?
 15 equals 2 more than what?
 16 equals 2 less than what?
 2 more than what equals 17?
 2 less than what equals 18?
 2 more than what equals 19?
 2 less than what equals 21?
 2 more than what equals 23?
 2 less than what equals 22?

LESSON VI.

3 more than 11 equals what?
 3 less than 12 equals what?
 3 more than 13 equals what?
 3 less than 17 equals what?
 3 more than 19 equals what?
 3 less than 25 equals what?
 What equals 3 more than 23?
 What equals 3 less than 27?
 What equals 3 more than 29?
 What equals 3 less than 31?
 What equals 3 more than 32?
 What equals 3 less than 36?

LESSON VII.

11 equals 3 less than what?
 12 equals 3 more than what?
 15 equals 3 less than what?
 17 equals 3 more than what?
 19 equals 3 less than what?
 21 equals 3 more than what?
 3 less than what equals 22?
 3 more than what equals 26?
 3 less than what equals 28?
 3 more than what equals 29?
 3 less than what equals 31?
 3 more than what equals 35?

LESSON VIII.

4 more than 11 equals what?
 4 less than 13 equals what?
 4 more than 15 equals what?
 4 less than 17 equals what?
 4 more than 19 equals what?
 4 less than 22 equals what?
 What equals 4 more than 24?
 What equals 4 less than 26?
 What equals 4 more than 33?
 What equals 4 less than 39?
 What equals 4 more than 43?
 What equals 4 less than 46?

LESSON IX.

12 equals 4 less than what?
 14 equals 4 more than what?
 16 equals 4 less than what?
 20 equals 4 more than what?
 25 equals 4 less than what?
 28 equals 4 more than what?
 4 less than what equals 33?
 4 more than what equals 35?
 4 less than what equals 37?
 4 more than what equals 42?
 4 less than what equals 45?
 4 more than what equals 47?

LESSON X.

5 more than 11 equals what?
 5 less than 19 equals what?
 5 more than 16 equals what?
 5 less than 22 equals what?
 5 more than 24 equals what?
 5 less than 28 equals what?
 What equals 5 more than 33?
 What equals 5 less than 34?
 What equals 5 more than 44?
 What equals 5 less than 47?
 What equals 5 more than 53?
 What equals 5 less than 59?

LESSON XI.

11 equals 5 less than what?
 17 equals 5 more than what?
 19 equals 5 less than what?
 23 equals 5 more than what?
 26 equals 5 less than what?
 29 equals 5 more than what?
 5 less than what equals 32?
 5 more than what equals 38?
 5 less than what equals 44?
 5 more than what equals 45?
 5 less than what equals 53?
 5 more than what equals 60?