

## Points to note re. use of Ballard/Westwood Timed Arithmetic Test:

### General:

- Like all tests, it has its *ads and disads*. It gives a useful snap-shot of a child's reflexive knowledge of basic tables facts.
- It is timed, some *ods* do not work well under pressure of time. A low score does not always indicate a high % of incorrect answers, but could be sums incomplete.
- Child may actually know the answers but is slow at recording.
- Does not measure potential but can help identify weaknesses and assess progress. Can also indicate readiness for various algorithms, eg long division.
- **If it is not rendered useless by being used as the basis for a regular Friday tables test, it is quite reliable and efficient.**
- Children usually want to know their score and how it compares to the end-yr target. (often this is more important to them than comparing their score with other pupils)
- History of the test: a bit hazy !! Ballard (?) devised and normed the Add/Sub. Vernon revised the norms in 1949. Later Westwood devised the Mult/Div and both the add/sub & mult/div were normed by him *et al* (1974) in England and by Broughton (1975) in Australia.
- The end-yr targets have not been standardised but seem to be quite realistic and achievable (schools could decide their own targets.) These targets were set by teachers in a mixed infants to 6<sup>th</sup>, 580 pupil school, school setting neither disadvantaged or privileged. Westwood did supply mean and critically low scores for various ages, these are perhaps useful but only as a rough guide as they were standardised quite some time ago.
- By testing at Easter, the final term could be used by children to put in a final push (and also perhaps to alert parents).
- A certificate to signify reaching the End-yr Tables Target could be designed & given out.
- It might be worthwhile to administer the copying test to see if motor/hand-eye co-ordination is a factor re low scores??

### Administration:

# Ballard Westwood Timed Arithmetic Test

**Minjie Lin**



**Ballard Westwood Timed Arithmetic Test:**

**Graded Arithmetic Tests. Supplementary Exercises to Fundamental Arithmetic ... Edited by Dr. P.B. Ballard**

Alfred WISDOM, Philip Boswood Ballard, 1943    Graded Arithmetic Tests. Supplementary Exercises to Fundamental Arithmetic [by Philip B. Ballard] Alfred Wisdom, 1943    *Washburne Individual Arithmetic* Carleton Wolsey Washburne, 1928  
Graded arithmetic tests Alfred Wisdom, 1943    **The "A. L." Advance Arithmetic Test Books** A. L. ADVANCE ARITHMETIC TEST BOOKS., 1915    *Washburne Individual Arithmetic..* Carleton Washburne, 1930    **Hundred-problem Arithmetic Test** ,    *Arithmetic Test (Fundamentals and Reasoning)* ,    *Arithmetic Test 1-2* S. Semple,    **Arithmetic Tests of To-day** W. Bertram White, 1938    Reasoning Arithmetic Test , 1920    *Arithmetic Test 22 (M.H.A. 22).* , 1935  
Mechanical Arithmetic Test , 1920    **The Essential Problem Arithmetic Test** , 1947    Basic Skills in Arithmetic Test. 1945 ,    *Washburne Individual Arithmetic..* Carleton Washburne, 1930    **Arithmetic Test-fundamentals, National Achievement Tests** Acorn publishing Co,    *Gilbert Business Arithmetic Test* , 1941    Forty Essential Arithmetic Tests Lachlan Donaldson Buchanan, 1957    **Twenty Time-tests in Arithmetic. Teacher's Book of Answers and Annotations** Elizabeth Evelyne McIntosh White (formerly Jardine.), 1954

The book delves into Ballard Westwood Timed Arithmetic Test. Ballard Westwood Timed Arithmetic Test is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Ballard Westwood Timed Arithmetic Test, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Ballard Westwood Timed Arithmetic Test
  - Chapter 2: Essential Elements of Ballard Westwood Timed Arithmetic Test
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  - Chapter 4: Ballard Westwood Timed Arithmetic Test in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Ballard Westwood Timed Arithmetic Test. This chapter will explore what Ballard Westwood Timed Arithmetic Test is, why Ballard Westwood Timed Arithmetic Test is vital, and how to effectively learn about Ballard Westwood Timed Arithmetic Test.
3. In chapter 2, this book will delve into the foundational concepts of Ballard Westwood Timed Arithmetic Test. This chapter will elucidate the essential principles that must be understood to grasp Ballard Westwood Timed Arithmetic Test in its entirety.
4. In chapter 3, this book will examine the practical applications of Ballard Westwood Timed Arithmetic Test in daily life. The third chapter will showcase real-world examples of how Ballard Westwood Timed Arithmetic Test can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Ballard Westwood Timed Arithmetic Test in specific contexts. The fourth chapter will explore how Ballard Westwood Timed Arithmetic Test is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Ballard Westwood Timed Arithmetic Test. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Ballard Westwood Timed Arithmetic Test.

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