

# Grid Method Classification of Islamic Geometric Patterns

Ahmad M. Aljamali and Ebad Banissi

Visualisation and Graphics Research Unit

Department of Computing, Information Systems & Mathematics

South Bank University, London.

aljamali@yahoo.com

banisse@vax.sbu.ac.uk

## ABSTRACT

This paper proposes a rational classification of Islamic Geometric Patterns (IGP) based on the Minimum Number of Grids (MING) and Lowest Geometric Shape (LGS) used in the construction of the symmetric elements. The existing classification of repeating patterns by their symmetric groups is in many cases not appropriate or prudent [Joy97]. The symmetry group theories do not relate to the way of thinking of the artisans involved, and completely has ignored the attributes of the unit pattern and has focused exclusively on arrangement formats. The paper considers the current symmetric group theories only as arrangement patterns and not as classifications of IGP since they have a "global approach" and have failed to explore the possibilities in the construction elements of IGP. The Star, a central Rosette, which is the most important element of IGP, forms the core of our study. The paper proposes new nomenclature to be used in the description of the unit pattern based on the MING and LGS used in the construction of a Star/Rosette pattern that can be used to achieve the final design. We describe and demonstrate procedures for constructing Star/Rosette unit patterns based on our proposed classification in a grid formation dictated by the final design of the unit pattern.

**Keywords :-** IGP, MING, LGS, Grid, Classification, Group Theory, Star/Rosette.

## 1. INTRODUCTION

Islamic artisans began to adorn the surfaces of palaces, mosques and minarets with IGPs more than thousand years ago [Sai76]. The geometric designs consistently filled the surface planes with star-shaped like regions that resulted in very highly visual symmetric patterns, which would henceforth be referred to as "Islamic Geometric Patterns". These geometric patterns have often presented a long-standing historic awe to group theorists who have endeavoured to present a prudent classification of these structures. Many attempts that have been made to classify the Star/Rosette patterns have resulted in a wide variety of construction groups and classifications. Grünbaum and Shephard tried to decompose these geometric patterns by their symmetry groups after obtaining the base region,

which they had used to arrive at the properties of the original pattern [Gru92]. European group theorists like Densdney have proposed a classification based on reflecting lines off to periodically placed circles [Den93]. Lee has presented simple constructions for the common features of IGPs but has failed to present a benchmark classification theorem [Lee95]. Also one important aspect of IGPs that has failed to attract any kind of classification is the naïve extension of lines into interstitial regions. We have had a good look into the existing complexity to the inferred geometry in order to describe the relation of the extension region with the unit pattern. S.J. Abbas and A. Salman in their landmark thesis on *A Symmetries of Islamic Geometrical Patterns* were of a firm opinion that no worthwhile classification of IGPs has been taken up to this day with specific focus on their construction [Abb95]. This paper presents an argument that popular and existing symmetry groups like the "7-fricce groups" and the "17-wallpaper groups" are purely base models. A more finer and refined classification based on the study of the construction of the unit pattern is required with specific focus on the gridding system of the unit pattern. The accomplishment of the unit pattern by the MING, LGS and the infinite number of possibilities this classification presents by way of permutations and combinations of the grids are huge.

Permission to make digital or hard copies of all or part of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. To copy otherwise, or republish, to post on servers or to redistribute to lists, requires prior specific permission and/or a fee.

WSCG SHORT PAPERS proceedings  
WSCG 2003, February 3-7, 2003, Plzeň, Czech Republic.  
Copyright UNION Agency - Science Press

# Grid Method Classification Of Islamic Geometric Patterns

**Guillaume Favre**

A decorative red circular graphic with a gradient, appearing as a stylized sun or a lens flare, positioned to the right of the author's name.

## **Grid Method Classification Of Islamic Geometric Patterns:**

Eventually, you will definitely discover a additional experience and achievement by spending more cash. still when? attain you acknowledge that you require to get those all needs past having significantly cash? Why dont you try to acquire something basic in the beginning? Thats something that will lead you to comprehend even more vis--vis the globe, experience, some places, behind history, amusement, and a lot more?

It is your extremely own period to undertaking reviewing habit. in the midst of guides you could enjoy now is **Grid Method Classification Of Islamic Geometric Patterns** below.

<https://staging.conocer.cide.edu/results/detail/index.jsp/Group%20Techniques.pdf>

## **Table of Contents Grid Method Classification Of Islamic Geometric Patterns**

1. Understanding the eBook Grid Method Classification Of Islamic Geometric Patterns
  - The Rise of Digital Reading Grid Method Classification Of Islamic Geometric Patterns
  - Advantages of eBooks Over Traditional Books
2. Identifying Grid Method Classification Of Islamic Geometric Patterns
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Grid Method Classification Of Islamic Geometric Patterns
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grid Method Classification Of Islamic Geometric Patterns
  - Personalized Recommendations
  - Grid Method Classification Of Islamic Geometric Patterns User Reviews and Ratings
  - Grid Method Classification Of Islamic Geometric Patterns and Bestseller Lists
5. Accessing Grid Method Classification Of Islamic Geometric Patterns Free and Paid eBooks

- Grid Method Classification Of Islamic Geometric Patterns Public Domain eBooks
  - Grid Method Classification Of Islamic Geometric Patterns eBook Subscription Services
  - Grid Method Classification Of Islamic Geometric Patterns Budget-Friendly Options
6. Navigating Grid Method Classification Of Islamic Geometric Patterns eBook Formats
    - ePub, PDF, MOBI, and More
    - Grid Method Classification Of Islamic Geometric Patterns Compatibility with Devices
    - Grid Method Classification Of Islamic Geometric Patterns Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Grid Method Classification Of Islamic Geometric Patterns
    - Highlighting and Note-Taking Grid Method Classification Of Islamic Geometric Patterns
    - Interactive Elements Grid Method Classification Of Islamic Geometric Patterns
  8. Staying Engaged with Grid Method Classification Of Islamic Geometric Patterns
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Grid Method Classification Of Islamic Geometric Patterns
  9. Balancing eBooks and Physical Books Grid Method Classification Of Islamic Geometric Patterns
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Grid Method Classification Of Islamic Geometric Patterns
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Grid Method Classification Of Islamic Geometric Patterns
    - Setting Reading Goals Grid Method Classification Of Islamic Geometric Patterns
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Grid Method Classification Of Islamic Geometric Patterns
    - Fact-Checking eBook Content of Grid Method Classification Of Islamic Geometric Patterns
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

## Grid Method Classification Of Islamic Geometric Patterns Introduction

In the digital age, access to information has become easier than ever before. The ability to download Grid Method Classification Of Islamic Geometric Patterns has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Grid Method Classification Of Islamic Geometric Patterns has opened up a world of possibilities. Downloading Grid Method Classification Of Islamic Geometric Patterns provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Grid Method Classification Of Islamic Geometric Patterns has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Grid Method Classification Of Islamic Geometric Patterns. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Grid Method Classification Of Islamic Geometric Patterns. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Grid Method Classification Of Islamic Geometric Patterns, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites

they are downloading from. In conclusion, the ability to download Grid Method Classification Of Islamic Geometric Patterns has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

### **FAQs About Grid Method Classification Of Islamic Geometric Patterns Books**

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Grid Method Classification Of Islamic Geometric Patterns is one of the best book in our library for free trial. We provide copy of Grid Method Classification Of Islamic Geometric Patterns in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Grid Method Classification Of Islamic Geometric Patterns. Where to download Grid Method Classification Of Islamic Geometric Patterns online for free? Are you looking for Grid Method Classification Of Islamic Geometric Patterns PDF? This is definitely going to save you time and cash in something you should think about.

### **Find Grid Method Classification Of Islamic Geometric Patterns :**

**group techniques**

**grief passages**

**ground force container gardening**

**groovy greeks two horrors in one and the rotten romans**

groucho marx

grumpy bunnys snowy day

**groomed for death**

**gripenholm eller tolv variationer fver ett tema av basilius valentinus**

growing up in foster care

**grover cleveland alexander**

~~growth profits and property essays in the revival of political economy~~

**growing in grace**

*groninger molenboek*

gringo lawyer

grundlagen des stalinismus die entwicklung d marxismus von e wib z ideologie rotbuch 137

**Grid Method Classification Of Islamic Geometric Patterns :**

**tkt weekly practice tests training foundry** - Dec 11 2021

**cambridge assessment english teaching knowledge test tkt** - Jan 12 2022

**the tkt course modules 1 2 and 3 cambridge** - Nov 21 2022

web this is the updated version of the teacher training course for teachers and trainee teachers preparing for the cambridge esol teaching knowledge test tkt it includes

*introduction cambridge university press assessment* - Jun 16 2022

web nov 5 2012 the teaching knowledge test the tkt is a test developed by cambridge esol for teachers of english to speakers of other languages it is designed to test

*tkt module 1 all practice tests again elt concourse* - May 28 2023

web the tkt test in detail there are five modules core modules a test of knowledge about the principles and practice of english language teaching module 1 background to

tkt 1 3 handbook for teachers cambridge english - Dec 23 2022

web tkt bir öğretmen olarak kendinizi nasıl geliştirdiğinizi gösterir Öğretmenlik bilgisini dünyaca kabul gören bir sertifikayla pekiştirmek isteyen kişiler için ideal bir testtir tkt esnek bir of

**tkt workshop sample tests dr finch finchpark** - Nov 09 2021



*prepare for tkt cambridge english* - Aug 31 2023

web sample papers and handbooks we have a range of materials that you can use to help you prepare for your tkt tests each module has a sample test with answers that you can use to practise they show you what a full test paper will look like and the types of questions

**tkt module 1 grammar practice test 1 elt concourse** - Jan 24 2023

web 3 turn over f for questions 7 13 match the teachers instructions with the main cognitive strategies they are helping to develop listed a d mark the correct letter a d on your

**tkt module 1 practice questions 1 7 grammatical terms elt** - Mar 26 2023

web teaching knowledge test handbook for teachers make the most of your handbook this handbook is intended for tutors and candidates and provides information to help prepare

**the tkt course modules 1 2 and 3 the tkt course modules** - Jul 18 2022

web tkt content and language integrated learning 7 match the classroom activities with the main aims of clil listed a d mark the correct letter a d on your answer sheet you will

**teaching knowledge test cambridge english** - Mar 14 2022

web tkt workshop resources tests module 1 past examination paper module 2 past examination paper module 3 past examination paper

**teaching knowledge test young learners sample** - Sep 19 2022

web 4 turn over for questions 14 19 complete the sentences about the uses of adverbs with one of the three possible endings a b or c mark the correct letter a b or c on your

tkt module 3 practice test elt concourse - Jun 28 2023

web consider only the underlined items he offered me a lift but i didn t need one he lent me his car he drove faster than he should have his car is faster than mine i was worried about

**tkt module 1 practice test elt concourse** - Jul 30 2023

web about the test tkt is taken as a series of multiple choice tests there are five modules that can be taken in any order or combination core modules module 1 background to

*about the tkt tests cambridge english* - Feb 22 2023

web the teaching knowledge test tkt is a test of the skills you need to be successful in teaching english to speakers of other languages it is suitable for teachers of all age

*tkt online practice test* - Apr 14 2022

web last week you had a go at a whole tkt module 2 test this week we d like you to try a whole module 1 and 3 test allow

1h20 minutes per module for module 1 you may be  
*grammatical terms cambridge english* - May 16 2022

web the university of cambridge assessment english teaching knowledge test tkt tests professional knowledge about the  
teaching of english to speakers of other languages

answer key for tkt practice tests the tkt course modules 1 - Oct 09 2021

**tkt teaching knowledge test cambridge english** - Aug 19 2022

web what is tkt test tkt is assessed using a multiple choice test that consists of three core modules that can be completed in  
any order either together or separately each module

**teaching knowledge test tkt british council** - Oct 21 2022

web an interactive glossary quiz covering the tkt terms extra support for tkt trainers what is the teaching knowledge test the  
tkt the teaching knowledge test the tkt is a

**tkt teaching knowledge test cambridge english** - Apr 26 2023

web matching exercise tkt course elt concourse home drag and drop the items on the right to match the items on the left  
think only about the words in bold check the old

introduction the tkt course modules 1 2 and 3 - Feb 10 2022

web nov 5 2012 answer key for tkt practice tests mary spratt alan pulvernness melanie williams book the tkt course modules  
1 2 and 3 online publication 05 november

macos mojave the missing manual the book that should have - Sep 22 2021

*introduction macos mojave the missing manual* - Jan 07 2023

web jan 10 2019 this book also demystifies the 50 programs that come with the mac including the four new ones in mojave  
news stocks home and voice memos

**macos mojave the missing manual by david pogue ebook** - Nov 05 2022

web stanford libraries official online search tool for books media journals databases government documents and more macos  
mojave the missing manual the book that

macos mojave the missing manual book o reilly media - Sep 03 2022

web buy macos mojave the missing manual the book that should have been in the box by pogue online at alibris we have new  
and used copies available in 1 editions starting

**manual the book that sho yumpu** - Apr 29 2022

web softouch

macos mojave the missing manual the book that should have - Jul 01 2022

web jan 15 2019 buy a discounted paperback of macos mojave the missing manual online from australia s leading online bookstore booktopia has macos mojave the missing

macos mojave the missing manual the book that should have - Feb 08 2023

web apple s latest mac software macos mojave is a glorious boxcar full of new features and refinements what s still not included though is a single page of printed instructions

**macos mojave the missing manual the book that should have** - Aug 14 2023

web jan 15 2019 apple s latest mac software macos mojave is a glorious boxcar full of new features and refinements what s still not included though is a single page of printed

**macos mojave the missing manual the book that should have** - Oct 04 2022

web macos mojave gives the mac more polish power and pep and in your hands you hold the ultimate guide to unlocking its potential categories computers operating systems

*macos mojave the missing manual the book that should have* - Dec 06 2022

web apple s latest mac software macos mojave is a glorious boxcar full of new features and refinements what s still not included though is a single page of printed instructions

**softouch** - Jan 27 2022

web jul 19 2020 download ebook macos mojave the missing manual the book that should have been in the box read online details details product answers found

**macos mojave the missing manual the book that** - May 11 2023

web undocumented surprises await on every page power users security networking remote access file sharing with windows this one witty expert guide makes it all crystal

**macos mojave the missing manual the book that should have** - May 31 2022

web nov 30 2020 pdf download macos mojave the missing manual the book that should have been in the box ebook read online link read download and more

macos mojave the missing manual david pogue google books - Mar 09 2023

web apple s latest mac software macos mojave is a glorious boxcar full of new features and refinements what s still not included though is a single page of printed instructions

**macos mojave the missing manual the book that should have** - Aug 02 2022

web download ebook macos mojave the missing manual the book that should have been in the box read online details details

product answers found here apple s latest

*macos mojave the missing manual the that sho nick* - Dec 26 2021

web dec 20 2018 apple s latest mac software macos mojave is a glorious boxcar full of new features and refinements what s still not included though is a single page of printed

macos mojave the missing manual the book that should have - Mar 29 2022

web macos mojave the missing manual the that sho this is likewise one of the factors by obtaining the soft documents of this macos mojave the missing manual the that sho

*macos mojave the missing manual the book that should* - Apr 10 2023

web macos mojave the missing manual the book that should have been in the box ebook written by david pogue read this book using google play books app on your pc

**read book pdf macos mojave the missing manual the** - Feb 25 2022

web aug 13 2023 macos mojave the missing manual the book that sho when people should go to the books stores search inauguration by shop shelf by shelf it is in reality

**macos mojave the missing manual the book that sho copy** - Nov 24 2021

**macos mojave the missing manual google books** - Jun 12 2023

web buy macos mojave the missing manual the book that should have been in the box by pogue david isbn 9781492040408 from amazon s book store everyday low

pdf download macos mojave the missing manual the book - Oct 24 2021

macos mojave the missing manual the book that - Jul 13 2023

web dec 20 2018 apple s latest mac software macos mojave is a glorious boxcar full of new features and refinements what s still not included though is a single page of printed

**la sophrologie par les contes 5 histoires pour ap copy** - Aug 08 2022

la sophrologie par les contes 5 histoires pour ap 1 la sophrologie par les contes 5 histoires pour ap petit tom au pays de serena rendez vous conte voyage en

**download solutions lasophrologieparlescontes5histoirespourap** - May 05 2022

la sophrologie par les contes 5 histoires pour ap is easy to get to in our digital library an online entry to it is set as public hence you can download it instantly our digital library saves

*la sophrologie par les contes 5 histoires pour ap nicolas d* - Mar 03 2022

la sophrologie par les contes 5 histoires pour ap recognizing the quirk ways to get this ebook la sophrologie par les contes 5 histoires pour ap is additionally useful you have

*la sophrologie par les contes 5 histoires pour apprivoiser ses* - Jul 19 2023

nov 28 2018 toutes les informations la sophrologie par les contes les contes de ce livre ne sont pas des contes comme les autres jalonnés d'exercices de sophrologie relaxation

**la sophrologie par les contes 5 histoires pour** - Mar 15 2023

saisissez les caractères que vous voyez ci dessous désolés il faut que nous nous assurons que vous n'êtes pas un robot pour obtenir les meilleurs résultats veuillez vous assurer que

*la sophrologie par les contes 5 histoires pour ap copy* - Nov 30 2021

la sophrologie par les contes 5 histoires pour apprivoiser ses - Feb 02 2022

oct 13 2023 la sophrologie par les contes 5 histoires pour ap 2 7 downloaded from uniport edu ng on october 13 2023 by guest trouvent démunis pour surmonter les conflits

**la sophrologie par les contes 5 histoires pour ap kathryn** - Oct 10 2022

sep 16 2023 la sophrologie par les contes 5 histoires pour ap 2 7 downloaded from uniport edu ng on september 16 2023 by guest participent au développement de l'enfant

**la sophrologie par les contes 5 histoires pour ap pdf pdf** - Jul 07 2022

la sophrologie par les contes 5 histoires pour apprivoiser ses émotions et s'épanouir sereinement par isabelle lefevre vallée aux éditions petit kiwi jeunesse la sophrologie par les

la sophrologie par les contes 5 histoires pour - Sep 21 2023

noté 5 retrouvez la sophrologie par les contes 5 histoires pour apprivoiser ses émotions et s'épanouir sereinement et des millions de livres en stock sur amazon fr achetez neuf ou

*la slow life cours sophro 5 un conte pour croire en soi* - Dec 12 2022

aug 6 2023 la sophrologie par les contes 5 histoires pour ap as recognized adventure as with ease as experience more or less lesson amusement as well as promise can be

**contes gratuits pour les enfants et audio livre** - Sep 09 2022

michelle van hooland 2021 04 28 la sophrologie par le conte pour les maternelles est un accès ludique à la sophrologie les enfants bougent respirent chantent rient comme les

la sophrologie par les contes 5 histoires pour ap - Jan 01 2022

la sophrologie par les contes 5 histoires pour ap 2 11 downloaded from uniport edu ng on october 6 2023 by guest contes de

la nature les secrets de la forêt 3 5 ans gilles

**la sophrologie par les contes 5 histoires pour apprivoiser ses** - Feb 14 2023

cours de sophro n 5 un conte pour croire en soi dans ce cours de sophro on fait l expérience d écouter un conte inspirant tout en se relaxant la sophrologie utilise parfois

**la sophrologie par les contes 5 histoires pour ap pdf** - Oct 30 2021

*amazon fr* - Jan 13 2023

la sophrologie par les contes 5 histoires pour ap 2 6 downloaded from uniport edu ng on may 22 2023 by guest par l élément au cœur du conte pour clore l histoire en douceur une

**la sophrologie par les contes 5 histoires pour apprivoiser ses** - Apr 16 2023

mar 8 2022 la sophrologie par les contes les contes de ce livre ne sont pas des contes comme les autres jalonnés d exercices de sophrologie relaxation respiration

**la sophrologie par les contes 5 histoires pour ap full pdf** - Jun 06 2022

mar 19 2023 as this la sophrologie par les contes 5 histoires pour ap it ends happening inborn one of the favored ebook la sophrologie par les contes 5 histoires pour ap

la sophrologie par les contes 5 histoires pour ap - Apr 04 2022

un livre cd pour enfants qui inclut des exercices de sophrologie au sein des récits et un guid la sophrologie par les contes 5 histoires pour apprivoiser ses émotions et

**la sophrologie par les contes 5 histoires pour ap pdf** - Nov 11 2022

je vous propose en téléchargement gratuit les 3 tomes du livre ami que j ai découvert récemment et qui je trouve aborde le développement personnel d une façon très ludique pour les enfants

*la sophrologie par les contes 5 histoires pour apprivoiser ses* - Aug 20 2023

mar 9 2022 les contes de ce livre ne sont pas des contes comme les autres jalonnés d exercices de sophrologie relaxation respiration visualisation ils invitent l enfant à vivre

**la sophrologie par les contes 5 histoires pour apprivoiser ses** - May 17 2023

jul 24 2023 la sophrologie par les contes 5 histoires pour apprivoiser ses émotions et s épanouir sereinement par isabelle lefèvre vallée aux éditions petit kiwi jeunesse les

**la sophrologie par les contes 5 histoires pour apprivoiser ses** - Jun 18 2023

cinq contes pour tous les âges la licorne ailée de 4 à 10 ans le dauphin de 3 à 6 ans le dragon de 4 à 7 ans le vent des indiens de 6 à 12 ans le loup

