

NATIONAL CERTIFICATE

MATHEMATICS N4

(16030164)

20 November 2024 (X-Paper)

09:00–12:00

Calculators may be used.

This question paper consists of 5 pages and a 1-page formula sheet.

048Q1E2420

Copyright reserved

Please turn over

DNET

3

T1030(E)(M28)T

QUESTION 1

- 1.1 1.1.1 Sketch the graph of $\frac{x^2}{20} + \frac{y^2}{32} = \frac{1}{50}$. (3)
- 1.1.2 What is the domain of the graph in QUESTION 1.1.1? (2)
- 1.1.3 Is the graph in QUESTION 1.1.1 symmetrical about both axes? (1)
- 1.1.4 Does the graph in QUESTION 1.1.1 represent a function or a relation? (1)
- 1.2 Sketch the graph of $x = +\sqrt{27 + y^2}$. (3)
- 1.3 Solve for x if:
 $x^2 + 2x = -2$ (4)
- 1.4 Simplify the following and leave answer in $a + jb$ form:

$(1 - j)^2$

N4 Maths Question Papers

Padhraic Smyth



N4 Maths Question Papers:

If you ally obsession such a referred **N4 Maths Question Papers** books that will meet the expense of you worth, get the definitely best seller from us currently from several preferred authors. If you want to comical books, lots of novels, tale, jokes, and more fictions collections are after that launched, from best seller to one of the most current released.

You may not be perplexed to enjoy all ebook collections N4 Maths Question Papers that we will unconditionally offer. It is not not far off from the costs. Its very nearly what you habit currently. This N4 Maths Question Papers, as one of the most keen sellers here will agreed be in the middle of the best options to review.

https://blog.gospelcrusade.org/results/book-search/Documents/Manual_Mercury_200_Hp.pdf

Table of Contents N4 Maths Question Papers

1. Understanding the eBook N4 Maths Question Papers
 - The Rise of Digital Reading N4 Maths Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying N4 Maths Question Papers
 - 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 N4 Maths Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from N4 Maths Question Papers
 - Personalized Recommendations
 - N4 Maths Question Papers User Reviews and Ratings
 - N4 Maths Question Papers and Bestseller Lists
5. Accessing N4 Maths Question Papers Free and Paid eBooks

- N4 Maths Question Papers Public Domain eBooks
 - N4 Maths Question Papers eBook Subscription Services
 - N4 Maths Question Papers Budget-Friendly Options
6. Navigating N4 Maths Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - N4 Maths Question Papers Compatibility with Devices
 - N4 Maths Question Papers Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N4 Maths Question Papers
 - Highlighting and Note-Taking N4 Maths Question Papers
 - Interactive Elements N4 Maths Question Papers
 8. Staying Engaged with N4 Maths Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N4 Maths Question Papers
 9. Balancing eBooks and Physical Books N4 Maths Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N4 Maths Question Papers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine N4 Maths Question Papers
 - Setting Reading Goals N4 Maths Question Papers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of N4 Maths Question Papers
 - Fact-Checking eBook Content of N4 Maths Question Papers
 - 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

N4 Maths Question Papers Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free N4 Maths Question Papers PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers

individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free N4 Maths Question Papers PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of N4 Maths Question Papers free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About N4 Maths Question Papers 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 webbased 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. N4 Maths Question Papers is one of the best book in our library for free trial. We provide copy of N4 Maths Question Papers in digital format, so the resources that you find are reliable. There are also many Ebooks of related with N4 Maths Question Papers. Where to download N4 Maths Question Papers online for free? Are you looking for N4 Maths Question Papers PDF? This is definitely going to save you time and cash in something you should think about. If you trying to find then search around for online. Without a doubt there are numerous these available and many of them have the freedom. However without doubt you receive whatever you purchase. An alternate way to get ideas is always to check another N4 Maths Question Papers. This method for see exactly what may be included and adopt these ideas to your book. This site will almost certainly help you save time and effort, money

and stress. If you are looking for free books then you really should consider finding to assist you try this. Several of N4 Maths Question Papers are for sale to free while some are payable. If you arent sure if the books you would like to download works with for usage along with your computer, it is possible to download free trials. The free guides make it easy for someone to free access online library for download books to your device. You can get free download on free trial for lots of books categories. Our library is the biggest of these that have literally hundreds of thousands of different products categories represented. You will also see that there are specific sites catered to different product types or categories, brands or niches related with N4 Maths Question Papers. So depending on what exactly you are searching, you will be able to choose e books to suit your own need. Need to access completely for Campbell Biology Seventh Edition book? Access Ebook without any digging. And by having access to our ebook online or by storing it on your computer, you have convenient answers with N4 Maths Question Papers To get started finding N4 Maths Question Papers, you are right to find our website which has a comprehensive collection of books online. Our library is the biggest of these that have literally hundreds of thousands of different products represented. You will also see that there are specific sites catered to different categories or niches related with N4 Maths Question Papers So depending on what exactly you are searching, you will be able to choose ebook to suit your own need. Thank you for reading N4 Maths Question Papers. Maybe you have knowledge that, people have search numerous times for their favorite readings like this N4 Maths Question Papers, but end up in harmful downloads. Rather than reading a good book with a cup of coffee in the afternoon, instead they juggled with some harmful bugs inside their laptop. N4 Maths Question Papers is available in our book collection an online access to it is set as public so you can download it instantly. Our digital library spans in multiple locations, allowing you to get the most less latency time to download any of our books like this one. Merely said, N4 Maths Question Papers is universally compatible with any devices to read.

Find N4 Maths Question Papers :

~~manual mercury 200 hp~~

~~manual lcd samsung 32 pulgadas~~

~~manual mazda 3 2012~~

manual isuzu dmax bluetooth

~~manual jeep grand cherokee 31 td~~

~~manual motor deutz 1013~~

~~manual network selection nokia lumia 610~~

~~manual mercedes benz clase a 10 w168~~

~~manual leica tc 1103~~

[manual mf 275](#)

[manual keeway rks](#)

[manual kymco mxu 300](#)

[manual istorie clasa 11 corint](#)

[manual martin atomic 3000](#)

[manual mercedes benz clk 320](#)

N4 Maths Question Papers :

[what should my superheat be hvac school - Jul 15 2023](#)

web jul 27 2020 when charging a fixed orifice a c system you can use the chart below to figure out the proper superheat to set once all other parameters have been accounted for alternatively you can use our special superheat and delta t calculator here top left

trane superheat charging chart orifice - Jun 02 2022

web it is not on the costs its approximately what you compulsion currently this trane superheat charging chart orifice as one of the most involved sellers here will very be among the best options to review trane superheat charging chart orifice downloaded from georgiacollegesurvey gcsu edu by guest shaylee shannon hvac

product data trane heating air conditioning - Sep 05 2022

web d the outdoor condensing units are factory charged with the system charge required for unit ten 10 feet of tested connecting line and the smallest rated indoor evaporative coil match always verify proper system charge via subcooling txv eev or superheat fixed orifice per the unit nameplate e 25 30 35 and 50 foot linesets available

trane superheat charging chart orifice db udrive ae - Apr 12 2023

web trane superheat charging chart orifice 2022 09 29 bautista cochran handbook of energy audits elsevier 2 2 trane superheat charging chart orifice 2022 09 29 completely revised and updated to reflect current advances in heat exchanger technology heat exchanger design handbook second edition includes enhanced figures and

trane wikipedia - Dec 28 2021

web trane is a manufacturer of commercial and residential heating ventilation and air conditioning hvac systems along with building management systems and controls the company is a subsidiary of trane technologies a company focused on manufacturing hvac and refrigeration systems trane employs more than 29 000 people at 104

[trane superheat charging chart orifice wrbb neu edu - Dec 08 2022](#)

web trane superheat charging chart orifice 2023 06 01 roach summers newnes building services pocket book esco press get

cutting edge coverage of all chemical engineering topics from fundamentals to the latest computer applications first published in 1934 perry s chemical

[high efficiency gas heaters trane heating air conditioning](#) - Feb 27 2022

web its advanced engineered design delivers up to 99 efficiency at full turndown 95 efficiency at high fire while modulating the heat discharge to compensate for indoor and outdoor temperature variations save money and be more sustainable the trane high efficiency unit heater generates the exact consistent heat you need

trane superheat charging chart orifice ftp bonide com - Jan 09 2023

web trane superheat charging chart orifice downloaded from ftp bonide com by guest alvaro ponce epa 608 study guide mcgraw hill professional 4 trane superheat charging chart orifice 2020 04 23 your own zeppelin balloon and mix up some invisible ink it s all part of the true stories from the top

[superheat charging curves for techniciansachr news](#) - Jul 03 2022

web aug 3 2000 some manufacturers provide a slide rule superheat charging calculator all of these means of charging air conditioning systems operate on the same theory described above as one can see charging capillary tube and fixed orifice systems in air conditioning applications follow pretty much the same underlying theory

[superheat charging method fergusonhvac](#) - Aug 16 2023

web mar 11 2017 orifice metering device superheat method there are two ways to charge a system using the superheat method using dry bulb return air temperature using wet bulb return air temperature the wet bulb return air temperature method is the most accurate superheat

trane superheat charging chart orifice pdf support ortax org - May 13 2023

web title trane superheat charging chart orifice pdf pdf support ortax org created date 9 5 2023 6 52 37 am

trane superheat charging chart orifice - May 01 2022

web trane superheat charging chart orifice downloaded from pbx10874 pbxhosting com mx by guest sidney atkinson ashrae handbook refrigeration 2014 elsevier newnes building services pocket book is a unique compendium of essential data techniques and procedures best practice and underpinning knowledge this makes it an essential tool for

trane superheat charging chart orifice gazaxian com - Nov 07 2022

web trane superheat charging chart orifice april 23rd 2018 superheat target and actual properly charging fixed orifice systems superheat is wet bulb to look up the target superheat on the chart

trane superheat charging chart orifice ftp bonide com - Aug 04 2022

web trane superheat charging chart orifice downloaded from ftp bonide com by guest zayden cameron fundamentals of water system design cornell maritime 2 trane superheat charging chart orifice 2023 04 07 positioned multi disciplinary field

encompassing mechanical chemical industrial and food engineering as well as
trane superheat charging chart orifice texas a m university - Oct 06 2022

web we have enough money trane superheat charging chart orifice and numerous books collections from fictions to scientific research in any way among them is this trane superheat charging chart orifice that can be your partner trane superheat charging chart orifice downloaded from wef tamu edu by guest weston donna
ultimate guide to hvac systems trane hvac owners support - Mar 31 2022

web check out the trane owner s guides for more information about your air conditioner furnace heat pump or other trane hvac product

trane superheat charging chart orifice - Mar 11 2023

web trane superheat charging chart orifice downloaded from stackdockeridp fixspec com by guest 2 trane superheat charging chart orifice 2022 06 14 hvac training 101 is a site visited by over 100 000 enthusiasts monthly who are interested in becoming hvac technicians the site initially began as the passion project of a retired hvac

trane superheat charging chart orifice - Feb 10 2023

web trane superheat charging chart orifice downloaded from stackdockeridp fixspec com by guest hinton jax system recovery evacuation esco press the btu buddy notebook is a collection of more than 50 unique service call scenarios conducted by an hvac technician which describe real life service scenarios related to troubleshooting many
furnaces oil and gas furnaces trane - Jan 29 2022

web trane furnaces with 90 or higher afue measurements deliver at least 90 of the heat they create to your home which exceeds the government s minimum standard of 80 afue for new furnaces if you have a furnace that is at least 10 years old it probably has an afue between 60 70 meaning you could be losing 40 cents of every dollar you

trane superheat charging chart orifice download only - Jun 14 2023

web 1 airflow covers the properties of air airflow measuring tools cfm calculations requirements blower performance and sensible heat ratios 2 critical charging reviews the three charging methods by weight system superheat and condenser subcooling

amurao la boda roja spanish edition kindle edition - Apr 17 2023

dec 10 2019 amurao la boda roja spanish edition kindle edition by barrero fran download it once and read it on your kindle device pc phones or tablets use features like

amazon com amurao la boda roja spanish edition - Jun 19 2023

amazon com amurao la boda roja spanish edition 9798448911361 barrero fran libros

amurao la boda roja spanish edition tapa blanda - Oct 31 2021

amazon com amurao la boda roja spanish edition 9781674493015 barrero fran libros

amurao series by fran barrero goodreads - Jul 20 2023

book 1 amurao el purgatorio de los niños perdidos by fran barrero 3 91 103 ratings 27 reviews 4 editions primera entrega de la saga en un inusualmen want to

amurao la boda roja edición kindle amazon com mx - Jan 14 2023

seleccionar el departamento en el que deseas buscar

amurao la boda roja de fran barrero en pdf mobi y epub - Jul 08 2022

descargá gratis el libro amurao la boda roja tres casos tres novelas en una un homenaje a primeros casos de poirot de agatha christie la boda roja una pareja de recién casados

welcome to tamara rojo s official site tamara rojo - Jan 02 2022

tamara rojo stage farewell her career summarized in fifteen videos idea collected from the great article written by amélie bertrand adieux à la scène de tamara rojo sa

amurao la boda roja barrero fran amazon es libros - Aug 21 2023

tres casos tres novelas en una un homenaje a primeros casos de poirot de agatha christie la boda roja una pareja de recién casados es encontrada muerta en los aseos del salón en que

amurao la boda roja barrero fran amazon com au books - Jun 07 2022

select the department you want to search in

amurao la boda roja versión kindle amazon es - Sep 22 2023

cuando desaparece el tercer niño de ocho años en la misma zona de la ciudad el caso pasa a manos de collado y garza que tendrán que lidiar con el hermetismo de las familias y con los

amurao la boda roja spanish edition kindle edition - Oct 11 2022

amurao la boda roja spanish edition ebook barrero fran amazon co uk kindle store

tamara falcó comparte los detalles y fotos inéditas de su boda - Feb 03 2022

sep 23 2023 efectivamente el vestido negro con motivos florales metalizados de la colección otoño invierno 2023 de carolina herrera fue el punto de partida de su ya famoso vestido de

amurao la boda roja barrero fran amazon es libros - May 18 2023

amurao la boda roja barrero fran amazon es libros también utilizamos estas cookies para entender cómo utilizan los clientes nuestros servicios por ejemplo mediante la

amurao la sombra de la dama blanca versión kindle - Aug 09 2022

amurao la sombra de la dama blanca versión kindle de fran barrero autor formato versión kindle 4 5 85 valoraciones libro 9

web the city of westminster requires a gas pipe plan to be submitted for any new gas line work or when the input btu hr of a replacement appliance is larger than the appliance it is replacing a copy of the city approved stamped plan must be onsite prior to the inspection

gas pipe plan submittal requirements westminster colorado - Aug 01 2023

web gas pipe plan submittal requirements westminster colorado pdf pages 2 3 gas pipe plan submittal requirements westminster colorado pdf upload betty r murray 2 3 downloaded from support ortax org on september 3 2023 by betty r murray 1929 gas journal 1849 journal of gas lighting and water supply 1855 commerce business daily

plan submittal requirements residential permits city of westminster - Sep 02 2023

web plan submittal requirements residential permits as of 12 14 2016 all permit packages must be submitted electronically through the city s website using the online permit portal trakit new single family detached or attached submittals must include all online application fields

gas pipe plan submittal requirements westminster colorado - Feb 12 2022

web jan 19 2023 4730486 gas pipe plan submittal requirements westminster colorado 1 5 downloaded from robbinsmanuscripts berkeley edu on by guest gas pipe plan submittal requirements westminster colorado eventually you will very discover a other experience and expertise by spending more cash yet when

gas pipe plan submittal requirements westminster colorado - Jun 30 2023

web gas pipe plan submittal requirements westminster colorado community planning review the architectural review authorizations for the natural gas pipeline safety act phase iii hubline project maritimes northeast pipeline l l c algonquin gas transmission company and texas eastern transmission corporation sanitary and

tankless water heater permit submittal requirements city of westminster - Feb 24 2023

web provide a gas pipe plan the permit will not be issued without the gas pipe plan being submitted reviewed and approved refer to city handout on requirements of a gas pipe plan if csst is being used indicate manufacturer desired additional information please indicate if hot water heater is an emergency replacement or not

gas pipe plan submittal requirements westminster colorado - Jul 20 2022

web entirely offer it is not regarding the costs its more or less what you infatuation currently this gas pipe plan submittal requirements westminster colorado as one of the most operating sellers here will agreed be along with the best options to review the iron trade review 1925 federal register 1980 06 27 the iron trade review 1910

gas pipe plan submittal requirements westminster colorado - Apr 28 2023

web gas pipe plan submittal requirements westminster colorado author august blatt from orientation sutd edu sg subject gas pipe plan submittal requirements westminster colorado keywords pipe submittal requirements westminster plan gas colorado

created date 4 8 2023

gas pipe plan submittal requirements westminster colorado - Jun 18 2022

web gas pipe plan submittal requirements westminster colorado 1 gas pipe plan submittal requirements westminster colorado when people should go to the books stores search inauguration by shop shelf by shelf it is in reality problematic this is why we allow the books compilations in this website it will categorically ease you to see guide

pipeline safety program public utilities commission - Mar 28 2023

web the colorado public utilities commission puc gas pipeline safety program is charged with confirming compliance with and enforcing the state s intrastate gas pipeline safety regulations to provide public safety to the citizens of colorado

gas pipes approved materials the engineering toolbox - Dec 25 2022

web sponsored links there are several types of materials approved for gas work the codes for the local jurisdiction should always be checked but in general steel pipes copper pipes yellow brass pipe ductile iron aluminum pipe pvc pipes

gas pipe plan submittal requirements westminster colorado - Apr 16 2022

web gas pipe plan submittal requirements westminster colorado right here we have countless books gas pipe plan submittal requirements westminster colorado and collections to check out we additionally present variant types and moreover type of the books to browse

resources for homeowners city of westminster - May 30 2023

web gas pipe plans hot tubs photo roof inspection pole barns pools removal and re installation of solar pv panels policy residential building permit requirements roofing guide signs single family additions single family basements single family carports single family decks and porches single family garages single family patio covers

gas pipe plan submittal requirements westminster colorado - Jan 26 2023

web gas pipe plan submittal requirements westminster colorado proposed outer continental shelf oil and gas lease sale eastern gulf of alaska jun 18 2021 volume 1 is text proceedings offshore technology conference feb 12 2021 pipeline safety regulations jan 14 2021 code of federal regulations title 46 shipping pt 41 69

free gas pipe plan submittal requirements westminster colorado - May 18 2022

web gas pipe plan submittal requirements westminster colorado are you being served jul 25 2022 technical abstract bulletin feb 05 2021 the central hall westminster mar 21 2022 city of westminster libraries supplier selection specification nov 28 2022 maryland register state contract supplement nov 16 2021

download solutions gas pipe plan submittal requirements westminster - Sep 21 2022

web gas pipe plan submittal requirements westminster colorado code of federal regulations title 46 shipping pt 41 69 revised as of october 1 2009 may 27 2022 pipeline safety regulations sep 06 2020 code of federal regulations 46 shipping dec 22

2021 title 46 2009 u s coast guard dot parts 70 89 jul 29 2022

gas pipe plan submittal requirements westminster colorado - Aug 21 2022

web gas pipe plan submittal requirements westminster colorado 1 gas pipe plan submittal requirements westminster colorado natural gas pipeline and current policies regarding rights of way water and gas review a report for the justification of the federal government to upgrade the gas pipeline distribution system in barrow

submittal requirements residential gas line - Mar 16 2022

web submittals gas line plan 3 sets 11 x17 minimum 24 x36 maximum gas line can be a line diagram or an isometric diagram overlaying gas line plan on a plot plan is acceptable if combined plan is clear and legible if hand drawn must be drawn with a *gas pipe plan submittal requirements westminster colorado* - Nov 23 2022

web fetch and deploy the gas pipe plan submittal requirements westminster colorado it is thoroughly straightforward then currently speaking we extend the associate to buy and create bargains to retrieve and configure gas pipe plan submittal requirements westminster colorado therefore easy merely said the gas pipe plan submittal