



## Research Article

# Cognitive Level of Characters in the Indonesian Novel As a Source of Learning

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### Abstract

This qualitative study aims at describing the level of cognitive of the characters in the Indonesian novel. The data in this study were collected through intensive reading based on Maryamah Karpov novel. The characterization is classified according to the level of cognitive including memorizing, understanding, applying, analyzing, judging, and creating. The process of data analysis is categorized into three stages, namely data reduction, data presentation, and conclusion. The result shows that the characterization of novel is identified as understanding, applying, analyzing, evaluating, and creating. In fact, the characterization also fills each indicator of cognitive level. Maryamah Karpov is at a level of judging (C5) and creating (C6). The novel is classified into a high level of cognitive and is suitable as a source of learning in high school. The drawing of recommendation based on this study is that teachers need to analyze the level of cognitive of any novels which will be used as a learning resource since the harmony between the level of cognitive and the level of intelligence of the students will have a significant impact.

### Keywords:

cognitive level, behavior of the characters, Indonesian novel

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## Introduction

An important phase in the learning process does exist in the age of children. The logical thinking of children is modest, but it becomes the basis for further development of the cognitive phase. Vandenbroucke (2018) suggested that the positive memory will affect children's emotional and learning achievement in primary schools. The positive memory is a good impression of the treatment and experience. An amusing learning process will convey a good impression to them. One of the elements of a fun learning is that the instructional materials are appropriate with the level of cognitive of the children themselves. A material which is suitable to the children's cognitive level will cultivate their critical thinking (Marni, 2019).

The selection of learning resources in accordance with the level of the children's thinking is crucial. This will help them in their learning process as it is aligned with the level of their thinking. The learning resources associated with the level of the children's thinking will brand the modest learning material (at their zone of proximal development). Thus, they can construct the knowledge well. Learners need a cognitive learning strategy, including in the selection of learning resources. The considerations in the selection of the cognitive aspects of learning resources enables them to manipulate mental and physical matter. This is in line with the opinion of Barter (2016) who argued that the selection of learning resources, including the selection of textbooks, and the strategy are required. The determination of learning resources for children is not arbitrary. The selection of learning resources needs to be taken into account carefully, including the consideration of the level of knowledge. Beauvais (2015) added that the selection of learning resources for children has become educational issues that needs full attention.

In connection with the level of cognitive of the children, Benjamin S. Bloom divides the idea of cognitive into six levels, i.e. remembering, understanding, applying, analyzing, judging, and creating (Krathwohl, 2001). The lowest level is memorizing, while the highest level is creating. The higher level of thinking, the more complex and intricate process. Thus, the level of cognitive proposed by Bloom can be used as a reference to assess the suitability of the learning resources at the level of students' knowledge. The learning resources includes literary reading. Hence, literary reading necessitates to be adjusted to the level of student's cognitive level.

*“Tetapi pula ada babagian yang indah dan amat menarik hati, tak ubahnya seakan butan dalam cerita tentang dunia peri dan bidadari, butan-butan kecil yang dialasi oleh rumput hijau yang rata, yang seakan selalu dipelihara dan dibersihkan, dikelilingi oleh pohon-pohon cemara yang tinggi dan langsing semampai dan yang menyebarkan wangi minyak cemara ke seluruh butan. Wak Katok menahan napasnya melihat badan Siti Ruhiyah yang terbuka dengan tiba-tiba, menyala kuning langsung ditimpa matahari. Buah dadanya tak besar. Akan tetapi, bagus*

*bentuknya. Kemudian Siti Rubiyah membuka kainnya. Dia tak memakai celana dalam. Dan menyusun kainnya di atas kebaya di atas batu. Sebentar dia berdiri telanjang bulat di sungai di atas batu, seluruh tubuhnya dicitum oleh sinar matahari.” (Harimau! Harimau! p 39)*

“But there is a portion that is beautiful and appealing, like a forest in a story about the world of fairies and nymphs, small forests are covered by flat green grass, seemingly maintained and cleaned, surrounded by cypress trees that are tall and slim, slim and spreading fragrant pine oil throughout the forest. Wak Katok breathlessly looks at Siti Ruhya’s body which is opened suddenly, blazing over the sun. No large breasts. But, good shape. Then Siti Rubiyah opens her cloths. She was not wearing panties. And prepare her clothing on her blouse on a rock. For a moment she stands barely in the river, on a rock, his whole body kissed by the sun.” (Harimau!, Harimau!, pg. 39)

The quote shows the complex level of thinking. In the excerpt "But there is a portion that is beautiful and appealing, like a forest in a story about the world of fairies and nymphs, small forests are covered by flat green grass, seemingly maintained and cleaned, surrounded by cypress trees that are tall and slim, slim and spreading fragrant pine oil throughout the forest" indicates the level of creative thinking. The basic classification is an citation which has the combination elements of thought. The authors provide images of the forest, the world's imagination, body shape, and human behavior at once. Different levels of thinking can be seen in the following selection.

*“Alliya dan Syifa terkejut mendengarnya. Berarti, selama ini Kazuha berbohong. Tante Riantika bukan orangtua aslinya. Tante Riantika adalah tante yang memiliki rumah besar, sedangkan rumah yang di Jalan Golden Apple dibuat seolah-olah miliknya. Padahal, itu rumah Rebecca (Kazuha’s Identity, p 95).”*

“Alliya and Syifa are surprised. Meaning that, Kazuha has been lying. Aunt Riantika is not her biological parent. Riantika is an aunt who has a big house, while her house at Jalan Golden Apple is made like it hers. In fact, it is Rebecca’s (Kazuha's Identity, p 95).”

The cognitive level in the above citation is simpler compared to “Harimau! Harimau!”. The above cognitive level is judging. This is a cognitive level that is one step lower than the level of creating. In the novel excerpt Kazuha's Identity, the category of thinking is to compare. The figures provide a judgement through the process of comparing.

Literary work is one of sources of learning for children. They can discover and build knowledge of literature. Moreover, Wollman-Bonilla (1995) stated that the children have had an interest in literature. The presence and absence of their interest in the learning resources will certainly affect the learning process. Students tend to

enjoy the literature with a mild language. It means that the language will be easily understood by them. The ease and difficulty in understanding the language is determined by the level of cognitive of the students. Therefore, the literary works given to students should consider the appropriateness of the level of the cognitive of the students.

Literary work becomes a source of learning as the construction of meaning is the essence of knowledge (Marzano, 1992: 38-39) and literature has a significant-solid order. Eanes (1997: 263) states that children literature has a potential to develop their cognitive. Maryamah Karpov novel by Andrea Hirata tells that after returning from Europe, Ikal is not looking for a job like any other scholars. However, Ikal makes a boat which is made of wood that have been immersed in the river for years. The boat is called '*Mimpi-Mimpi Lintang*'. In a fragment of the story, children can learn the moral value and science at the same time.

Children can learn the process of building boat. The material selection of boat accomplished by Ikal is in the form of woods that have been submerged in the river for years is a very scientific consideration. The timber that has been inundated in the water for a few years will depict a good body mass so as to provide a balance pressure on the water that will not cause a sinking down. In addition, the wood that has been submerged in water for years has shown that wood is sturdy. The selection of fresh water (not salty water) is also based on a scientific consideration.

In addition to the selection of the wood as a material for the boat-building, the measuring of wind speed, wind direction, the angle of the screen, and the width of the screen is also based on scientific attention. Hence, the author should base their writing on the empirical facts and scientific theories wrapped up in the language of imagination that feels light to read, but it is full of knowledge. Smith (2002: 29) discussed that the selection of reading is very important as a source of a children's learning. The way in which the information acquired through the sense of the children is strongly influenced by their reading.

Hansen (2017) revealed that identifying the source of learning will solve children's learning problem. The identification includes the recognition of the level of thinking. Further, according to Cartwright (2017), children's reading may be used to investigate any concerns or issues that identify their cognitive level which would indicate a children's cognitive level. Crane (2017) confirms that the child has a metacognitive domain respectively. These conditions resulted in the selection of reading material must correspond to the level of the children's cognitive. Dore (2018) affirmed that the selection of reading as a learning resource will make it easier for parents and teachers in shaping their children's cognitive capability. Shamionov and Grigoryev (2019) stated that there is connection between complexity of connection and the social activities. The higher someone's social activities will be

more complex in terms of his cognition. Novel as a learning source will contribute to the indirect social experience as novel is a miniature of life.

One of the Indonesian novels served as a source of student learning is Maryamah Karpov written by Andrea Hirata. Maryamah Karpov is the fourth novel of Laskar Pelangi tetralogy. The early part of the story tells that Ikal has graduated from the University of Sorbonne, France. Ikal goes back his home in Belitong Island. Longing. That is the fundamental reason why Ikal comes back to Belitong. Ikal misses his parents, Arai - his cousin, people in Belitong and its environment, and more than that, he misses a girl of his dream, A Ling.

He passes his trip from Jakarta to his village in Belitong, defensively and fatigue. However, that is faded as Ikal does miss his father. A quiet man and very privileges for him. In fact, Ikal prepares the best appearance to meet his father. Ikal dressed up like a waiter while he was working in France. When he meets his father, mother, and Arai, their compassion cannot be hidden away.

A lot has changed in Belitong. Its society collapsed after tin mill went bankrupt. Nevertheless, Belitong atmosphere is not much different than the last time Ikal left for his study in France. Belitong people still like to brag, coffee stall, and are very fond of betting. The story continues with the presence of a dentist from Jakarta named dr. Budi Ardiaz. She is a wealthy woman and is actually able to live comfortably in Jakarta. However, because of her idealism, she devoted herself as a doctor in the land of Malay, Belitong. However, after several months of opening her practices, none of the people want her treatment. People prefer to go to traditional dentist reasoning that mouth is a sensitive matter as sex. Therefore, it should not be carelessly to put someone's hand into mouth except *mubrim* (an-unmarriageable-kin with whom sexual intercourse would be considered incestuous, a punishable taboo). This fact makes the headman Karmun gets furious and forces people to seek the treatment process at dr. Diaz dental clinic. However, people are still chortled with principles they hold.

The novel is necessary to be identified at the level of cognitive. The results of such identification would be beneficial in the learning process. The benefits are among others the suitability of the level of cognitive among the learning resources to students. Each student of elementary school has different level of cognitive compared to the senior high school students. By the identification of characters in the novel, it can be classified into the certain level of cognitive so the novel can be referred to as a source of learning in an appropriate age. Zhdanko (2019) explains that the identification of students' cognitive capability will lead to a big impact of students' success in learning. Hence, this current study aims at describing the level of cognitive of the characters in the Indonesian novel.

## Method

### Research Model

The approach used in this study is qualitative. A qualitative approach is useful to gain a deep understanding of the level of cognitive in reading literary works. This research approach is used to describe, explain, and explore the level of cognitive in novel Maryamah Karpov. The rankings are based on the cognitive taxonomy proposed by Benjamin S. Bloom. The utilization of a qualitative approach is based on the nature and characteristics, which have a scientific background as a source to obtain the data directly, descriptively, and the meaning is the primary concern in the study.

The focus of this research is the level of cognitive in Maryamah Karpov novel. The cognitive level is in sequence from the lowest of which is to memorize, understand, apply, analyze, assess, and create. The level of cognitive is reflected in the behavior of characters. The behavior of the character is disclosed by the words and sentences. The data source in this research is the novel by Andrea Hirata: Maryamah Karpov.

### Data Collection

The research data was collected by using intensive reading of a document in the form of Maryamah Karpov novel as a data source. Intensive reading is done by reading carefully, thoroughly, detailly, and repeatedly to obtain the content of the reading.

The collected data were in the form of words and sentences that demonstrate behavior reflecting the level of cognitive containing points of description that leads to the observation that must be done by a certain phase. By using these guidelines, the necessary data can be identified, recorded and coded. The collection of data is equipped with research instruments. The research instrument consists of a data card and form of analysis. In the data cards, there exist coded data, the level of cognitive, citations of data, data sources, and pages. After recording the data in the data card, the researchers move the data in the format sheet compilation of data for further analysis.

### Data Validity

The concept of validity in a qualitative research is credibility. A high-level of credibility is on the success of research in exploring and describing setting, social process, or interaction. This can also be reached if the participants are implicated in recognizing the various types of research. The researcher acts as the key instrument. Meaning that as a researcher as a participant acts directly in observing phenomena of the behavior of the characters in the novel so that he/she can formulate the level of cognitive. Hence, the researcher distinguishes the setting of the novel, social

behavior of the character, and also the pattern of interaction among the characters. The social behavior and the pattern of the interaction is depicted based on the level of cognitive, while the level of thinking is assessed based on the taxonomy theory of Bloom.

This current research findings which are in the form of the level of literary reading is followed up by the data validity checking.

- The source of reading is read and examined intensively by the high frequency so the full understanding is obtained. Hence, the behavior of the characters which reflects the level of cognitive can be portrayed.
- Observing diligently, carefully, and thoroughly the level of thinking in each literary reading so that the ranking of literary reading produced is valid.
- Discussing and exchanging ideas with experts in the field of psychology and/or children's literature to strengthen the research findings.

Data checking was carried out with the data triangulation and Group Discussion Forums (FGD). Validators or experts that will be presented in the FGD include experts in their respective fields, namely experts in the field of cognitive (1 expert), children's literature (1 expert), and colleagues (3 people).

### **Data Analysis**

The process of data analysis is grouped into three stages, namely data reduction, data presentation, and conclusion (Miles and Huberman, 1992: 14). The data reduction is a form of analysis that sharpens, classifies, directs, selects, eliminates unneeded, and organizes data in such a way that the conclusions drawn are true and accurate. The presentation of the data is an activity when the data is arranged so as to provide the possibility of drawing conclusions and basis for taking further action. The data analysis techniques are accomplished by applying content analysis techniques. The content analysis technique is employed when the data analysis is at the stage of data reduction and data presentation.

## **Results**

### **Cognitive Level in the Novel**

The data are in the form of cognitive level illustrated by the behavior of the characters in the novel by Andrea Hirata: *Maryamah Karpov*. They correspond several levels, namely remembering, understanding, applying, analyzing, judging, and creating. Considering the cognitive level (C1) in the novel, it reflects some indicators: selecting, describing, defining, registering, placing, giving, naming, eliminating, quoting, identifying, determining, and declaring. Nevertheless, the most dominant indicated data are selecting, naming, and stating. The data are presented in the following table.

**Table 1.**  
*The Level of Cognitive Memorizing (C1) with Selecting Indicator*

No.	Data, Data Code, and Description	C1-Selecting
1	Data	<i>"Ayah melangkah meninggalkan dapur. Aku mengikuti setiap langkah bangganya"</i> 'Father leaves the kitchen. I follow his pride step'
	Data Code	Maryamah Karpov/ p 5/ 13/ data 1
	Data Description	Explaining that a father who decides to leave his previous place, kitchen
2	Data	<i>"Tapi tak heran karena aku tahu persis arti Zakiah Nurmala bagi Arai. Ia tak pernah, sekalipun berpaling pada perempuan lain"</i> 'But I am not astonished since I know exactly the meaning of Zakiah Nurmala for Arai'
	Data Code	Maryamah Karpov/ p 153/ 1/ data 2
	Data Description	Since SMA Arai decides Zakiah as his idol
3	Data	<i>"Ayah akan membelikanku bok lo pan, tas sekolah yang tak pernah kupunya, dan kebaya encim baru untuk Ibu"</i> 'father will buy me bok lo pan, a bag I never had, and a brand new kebaya encim for mother'
	Data Code	Maryamah Karpov/ p 8/ 18/ data 3
	Data Description	Father selects various things for Ikal and his mother
4	Data	<i>"Arai menunggu saat yang tepat untuk menyampaikan maksudnya pada Ayah. Saat yang tepat itu adalah satu waktu khusus yang selalu disediakan beliau saban mendengarkan radio"</i> 'Arai waits in a proper time to express his intention to his father. This proper time is a special time provided by father when he is listening to radio'
	Data Code	Maryamah Karpov/ p 200/ 1/ data 4
	Data Description	Arai selects a proper time to talk to his father
5	Data	<i>"kami menghabiskan malam di rumah itu"</i> 'we spend our night in the house'
	Data Code	Maryamah Karpov/ p 375/ 3/ data 5
	Data Description	They decide to stay at Karimata's house

Table 1 shows the behavior of characters belong to a memorizing level (C1) with the indicator of selecting. The identified person is not only the main character, but also the companion figures such as Ikal, Arai, Zakiah Nurmala and father.



**Table 2.***The Level of Cognitive Memorizing (C1) with Naming Indicator*

No.	Data, Data Code, dan Description	C1-Naming
1	Data	"Biang pembual paling jempolan tak lain Zainul Arifin. Zainul yang bertubuh gempal khas kulit dan berwajah seperti orang lugu..." 'Zainul Arifin is a perfect liar. He is a typical stocky coolie and innocent person ...'
	Data Code	Maryamah Karpov/ p 142/ 6/ data 1
	Data Description	Naming someone who has a certain 'skill', Zainul a liar
2	Data	"Ketua Karmun hafal betul adat tabiat rakyatnya bahwa sifat dasar orang Melayu Dalam memang susah diyakinkan, tapi sekali mereka yakin, mereka akan fanatik" 'The Leader Karmun is well-memorized the culture of his people that Malay basic characteristic is not easy to be convinced, but once they are assured, the will be fanatic'
	Data Code	Maryamah Karpov/ p 72/ 24/ data 2
	Data Description	Naming a group based on their habits
3	Data	"Sepanjang hari aku melamunkan kejadian dimarahi Ibu pagi tadi. Puluhan tahun aku menyandang nama Hirata, baru hari ini aku mafhum maksudnya" 'all day, I daydream of a case when my mother got angry this morning. I have been bearing Hirata name for years, just today I understand her intention'
	Data Code	Maryamah Karpov/ p 283/ 1/ data 3
	Data Description	Ikal just understands that his parents name him Hirata
4	Data	"...saat kulukis nama perabuku: Mimpi-Mimpi Lintang" '... when I draw the name of my boat: <i>Mimpi-Mimpi Lintang</i> '
	Data Code	Maryamah Karpov/ p 355/ 9/ data 4
	Data Description	Ikal declares that his boat is <i>Mimpi-Mimpi Lintang</i>

There are 4 data of the indicators of level of memorizing (C1). The characters provide introduction to substitute his real name, such as innocent person, Malay, and Hirata who is one of the key characters.

**Table 3.***The Level of Cognitive Memorizing (C1) with Stating Indicator*

No.	Data, Data Code, dan Description	C1-Stating
1	Data	<i>"Aku tetap berkeras. Karena sejak kejadian khitan dulu, alu telah berjanji pada diriku sendiri dan pada alam semesta raya, apapun yang terjadi., aku tak mau ke rumah sakit"</i> 'I keep insisting. Because of the circumcision, I have promised myself and the universe, no matter what happens, I do not want to go to the hospital'
	Data Code	Maryamah Karpov/ p 204/ 12/ data 1
	Data Description	Stating that Ikal would not go to the hospital
2	Data	<i>"Enam hari enam malam pelayaran telah meluluhlantakkan kami"</i> 'Six days and six nights of sailing has been destroying us'
	Data Code	Maryamah Karpov/ p 417/ 9/ data 2
	Data Description	Ikal states that he has been sailing for six days and six nights
3	Data	<i>"A Ling masih tak ketabuan rimbanya"</i> 'A Ling is still not known where she is'
	Data Code	Maryamah Karpov/ p 424/ 11/ data 3
	Data Description	Ikal states that there is no sign of A Ling's existence
4	Data	<i>"Tiba-tiba, sekarang ia berada di rumah ibuku, juga untuk kali pertamanya"</i> 'Suddenly, she is in my mother's house, also for the very first time'
	Data Code	Maryamah Karpov/ p 452/ 10/ data 4
	Data Description	Ikal states that A Ling comes to his house for the first time

People who appear in the novel are such as Ikal and A Ling. They are two friends since their childhood. They are expressed in terms of thoughts, feelings, and situations.

The data of cognitive level aims to understand (C2) in the novel Maryamah Karpov, including classifying, demonstrating, explaining, expressing, expanding, giving examples, illustrating, showing, hooking, interpreting, assessing, matching, representing, restating, rewriting, summarizing, saying, translating, and elaborating. Nevertheless, the behavior of the data expresses the domination of indicator. The data are depicted as follows.

**Table 4.***The Level of Cognitive Understanding (C2) Expressing Indicator*

No.	Cognitive Level of Understanding	C2-Expressing
1	Data	<i>"Sungguh malang nasib Ayah, tak tertanggungkan rasanya kejadian ini. Namun, Ayah tiba-tiba menegakkan tubuhnya. Sejurus kemudian ia berjalan menuju kawan-kawannya"</i> 'Father is indeed unfortunate. However, father is suddenly straightened his body. A moment later, he walks to his friends'
	Data Code	Maryamah Karpov/ p 11/ 9/ data 1
	Data Description	Expressing disappointment when father is failed to get promoted
2	Data	<i>"Virginia Sue Townsend menyambutku di pintu apartemennya dan nyaris tak berpakaian. Acara berlangsung cepat dan tak bersedih-sedih"</i> 'Virginia Tue Townsend welcomes me in front of her apartment and she is almost naked. The event goes fast and is not being sad'
	Data Code	Maryamah Karpov/ p 38/ 26/ data 2
	Data Description	Explaining that arranging a graduation event
3	Data	<i>"Aku segera sadar bahwa ke mana pun nasib telah membawaku, semuanya bermula dari tempatku berdiri di depan Toko Sinar Harapan ini, dari satu detik ketika A Ling tersenyum padaku di balik tirai keong-keong kecil diambang pintu itu"</i> 'I immediately realized that wherever fate has taken me, it is all started from where I stand in front of Sinar Harapan Shop, from one second when A Ling smiled at me behind the small conch curtain on the doorstep.'
	Data Code	Maryamah Karpov/ p 85/ 6/ data 3
	Data Description	Ikal expresses when he met A Ling for the first time
4	Data	<i>"Seumur hidupku, tak pernah kulihat Arai sebahagia ini"</i> 'In my entire life, I never see Arai as happy as now'
	Data Code	Maryamah Karpov/ p 196/ 11/ data 4
	Data Description	Arai expresses his happiness
5	Data	<i>"Aku senang kami berhasil mengangkat perahu lanun dari dasar Sungai Linggang, terutama karena sulit..."</i> 'I am glad that we can lift the boat from the bottom of Sungai Linggang (river), especially because it is hard ...'
	Data Code	Maryamah Karpov/ p 347/ 1/ data 5
	Data Description	Ikal expresses his happiness when he can lift the boat

The level of cognitive in table 4 shows that the behavior of characters is in the form of expression. In the novel, it portrays the expression of disappointment when father does not get a promotion, graduation, joy, and happy.

The application of the cognitive level (C3) in the novel can be depicted in the character behavior as the basis of the data. This behavior can be either settled to resolve the problem, finish the job, or complete the responsibility mandated by the figures.

**Table 5.**

*Level of Cognitive of Applying (C3) with Finishing Indicator*

No.	Cognitive Level of Applying	C3-Finishing
1	Data	"Tapi kini nasibnya membaik. Ia dan keluarganya hijrah ke sebuah pulau kecil" 'But now, his fate is getting better. He and his family migrate to a small island'
	Data Code	Maryamah Karpov/ p 267/ 8/ data 1
	Data Description	Lintang ends his struggle life and gets better after they migrate to a small island
2	Data	"Kita akan mengangkat perahunya" 'We will lift the boat'
	Data Code	Maryamah karpov/ p 328/ 26/ data 2
	Data Description	Ikal and Lintang has been successful in resolving problems regarding their boat
3	Data	"Akhirnya, tibalah aku pada tahap akhir pembuatan perahuku..." 'Finally, I am at the final stage of boat constructing'
	Data Code	Maryamah Karpov/ p 353/ 1/ data 3
	Data Description	He finishes his boat construction
4	Data	"Tiba kembali di rumah Puniai, kami melihat nelayan tua itu tengah menunggu Nai..." 'Coming back to Puniai's house, we see the old fisherman is waiting for Nai...'
	Data Code	Maryamah Karpov/ p 411/ 10/ data 4
	Data Description	'Ikal finishes his meeting with Tuk Bayan Tula and comes back to Puniai's house'
5	Data	"Kami mengucapkan perpisahan yang menyedihkan dengan Kalimut" 'We say a blue goodbye with Kalimut'
	Data Code	Maryamah Karpov/ p 429/ 7/ data 5
	Data Description	Ikal ends his quest of A Ling with a sad feeling when he says goodbye to Kalimut

This is a level of cognitive which expressed by the behavior of the character in facing a problem about ship/boat, determining the future, and the form of submission on the effort accomplished.

The level of cognitive 'to analyze' (C4), which is reflected in the character in the novel is to analyze, categorize, classify, differentiate, favor, diversify, identify, conclude, split, specify, implement, and survey. At the level of cognitive of the C4, the behavior of the dominant figures appears in the level of analyzing and surveying.

**Table 6.**

*Level of Cognitive Applying (C4) with Analyzing Indicators*

No.	Cognitive Level of Analyzing	C4-Analyzing
1	Data	" <i>Berkali-kali Ayah menerawang tanda tangan itu, benar basah tinta biru, dari tangan yang dipertuan mandor sendiri, adanya</i> " 'Father imagines the signs for many times, it is true a blue ink, from the hands of the foreman'
	Data Code	Maryamah Karpov/ p 4/ 6/ data 1
	Data Description	Doing an analysis about what is received
2	Data	" <i>Aku bahkan ragu bahwa A Ling ada di batuan</i> " 'Even, I am in doubt that A Ling is on the rocks'
	Data Code	Maryamah Karpov/ p 358/ 21/ data 2
	Data Description	Ikal who analyzes based on what he understands about the presence of A Ling
3	Data	" <i>...tapi rangkaian suku katanya firasatku mengatakan sesuatu yang menyakitkan akan menimpaku</i> " '...but the series of the syllable, my hunch tells something hurting me'
	Data Code	Maryamah karpov/ p 467/ 6/ data 3
	Data Description	Ikal analyzes about dr. Diaz's words

The cognitive level (C4) indicating the analysis of the behavior shown by the father figure, Ikal, that analyzes his receive about something in his life. In addition, the analysis was performed by Ikal is to look for the presence of A Ling and interpret the words of the doctor Diaz.

**Table 7.**

*The Level of Cognitive Applying (C4) with Surveying Indicator*

No.	Cognitive Level of Analyzing	C4-surveying
1	Data	" <i>Sungguh menakjubkan ilmu perahu. Risiko ini baru kuketahui mempelajari konstruksinya. Sebelumnya tak pernah sebersitpun</i> " 'It is amazing about the science of boat. I just

		understand the risk when learning the construction. I do not think about it previously.
	Data Code	Maryamah Karpov/ p 289/ 15/ data 1
	Data Description	Ikal investigates about the risk of making his own boat
	Data	<i>"Hatiku waswas ingin membuktikan informasi Mahar lewat kitab tua itu"</i> 'My heart was anxious to prove Mahar's information through the old book'
2	Data Code	Maryamah Karpov/ p 315/ 13/ data 2
	Data Description	Ikal wants to investigate and proves about the information of Mahar
	Data	<i>"Mungkinkah aku telah menjumpainya di antara orang-orang yang telah kutemui di pulau-pulau ini, tapi nia tak lagi mengenalku, atau aku tak lagi mengenalinya?"</i> 'Could it be that I have met her among the people I met in these islands, but she does not recognize me, or I do not?'
3	Data Code	Maryamah Karpov/ p 426/ 7/ data 3
	Data Description	Ikal tries to investigate about the people he has met, is there A Ling among them

The behavior of the figures shows the level of cognitive aspect (C4) surveying that the indicators exists in Ikal's investigation about the risks of the boat. In addition, Ikal is also investigating the information conveyed by Mahar.

The level of cognitive to the next level is judging (C5). Assessing the level of cognitive (C5) which is reflected in the behavior of the characters in the novel Maryamah Karpov such as respect, consideration, criticize, defend, and compare. The frequency of behavior of the dominant figure is at the level of sustain. The following data shows the behavior of the level of cognitive retaining the characters.

**Table 8.**

*Level of Cognitive Judging (C5) Defending Indicator*

No.	Cognitive Level of Judging	C5-Defending
1	Data	<i>"Dan disinilah aku kini. Di depan bioskop Ki Chong ini. Kenangan akan indahnya diajak Ayah nonton film Ira Maya Putri Cinderella itu masih terasa-rasa sampai aku dewasa kini"</i> 'And here I am. In front of the cinema Ki Chong. The memory of being invited by father to watch a movie Ira Maya Putri Cinderella does still exist until I am adult'
	Data Code	Maryamah Karpov/ p 124/ 22/ data 1

	Data Description	Ikal tries not to change his memory of his childhood when he watched a movie with his father
2	Data	<i>"Salah satu sifat kekal orang Melayu Dalam yang kupahami adalah bahwa mereka sangat skeptis: tidak gampang percaya pada apa pun, siapa pun, dan memiliki kecenderungan kuat untuk tidak mau berubah"</i> 'One of immortal behaviors of Malays which I can understand is that they are really skeptical: they are not easy to be convinced by others, and have a strong tendency to stand on his own way'
	Data Code	Maryamah Karpov/ p 163/ 19/ data 2
	Data Description	Maintaining the unchangeable manner of Malays
3	Data	<i>"Menjelang Ramadhan, setiap anak lelaki Melayu usia sepuluh tahun harus memasrahkan barkatnya pada dukun sunat"</i> 'Ahead of Ramadhan, every single Malay boy age 10 should submit his dignity to the circumcision shaman
	Data Code	Maryamah Karpov/ p 190/ 8/ data 3
	Data Description	Maintaining the tradition of Malay boy in the ahead of Ramadhan
4	Data	<i>"Kami berjalan bersama mengarungi ilalang menuju kelas kami. Bangku-bangku kelas masih seperti dulu, dan aku takjub..."</i> 'We walk together across the thatch to our class. The chairs remain the same, and I am amazed...'
	Data Code	Maryamah Karpov/ p 257/ 23/ data 4
	Data Description	Sekolah Laskar Pelangi which makes the chairs remains the same after years
5	Data	<i>"Sejak dulu, jadwal mereka selalu tetap"</i> 'Since long time ago, their schedule remains the same'
	Data Code	Maryamah Karpov/ p 261/ 8/ data 5
	Data Description	Preserving their habits in arranging schedule
6	Data	<i>"Pakaian Tuk, kain yang dililit-lilitkan semacam jubah biksu, tongkat kayu renggadaan berbulu kepala ular tanah belang berbisa maut-pinang barik- masih seperti dulu"</i> 'Tuk clothes, a cloth wrapped around like a monk's robe, wooden stick with a striped-deadly betel nut-snake head lingers the same
	Data Code	Maryamah Karpov/ p 398/ 13/ data 6
	Data Description	Tuk Bayan Tula holds his appearance for years
7	Data	<i>"Sejak kecil, Ayah selalu mengajakku ke tempat-tempat istimewa. Setiap bulan sepanjang tahun, ada saja rencananya. Kuingat semua, mulai dari menyarai madu Bulan Januari..."</i>

	'Since childhood, my father always took me to special places. Every month throughout the year, there are plans. I remember everything, starting with honey in January ...'
Data Code	Maryamah Karpov/ p 112/ 8/ data 1
Data Description	Father keeps the habits when Ikal was still child to adult

The highest cognitive level is to create (C6). This level covers creating, scope of conduct, among which is the merging, combining, fabricating, constructing, building, creating, designing, elaborating, performing, formulating, making hypotheses, finding, beautifying, initiating, managing, planning, producing, playing role, and communicating. In Maryamah Karpov novel, the behavior of figures is dominated by explaining in terms of the level of knowledge. The following figures' behavioral data is on the level of cognitive creation indicators of telling.

**Table 9.**  
*Level of Cognitive Creation (C6) with Telling Indicator*

No.	Cognitive Level of Creating	C6- telling
1	Data	<i>"Seperti dulu pernah kuceritakan kepadamu, Kawan, Ayah selalu terpesona pada orang-orang berbaju seragam"</i> 'It is like what I had told you before, Buddy, Father is always amazed with people who wear uniform'
	Data Code	Maryamah Karpov/ p 53/ 21/ data 1
	Data Description	Ikal tells about his father
2	Data	<i>"Ah, engkau memang selalu ingin tahu. Terpaksalah kuceritakan kepadamu. Tapi, jangan tanya dari mana aku tahu karena kisah ini sangat rahasia"</i> 'Ah, you always want to know. I am forced to tell you. But, don't ask me where I got this story as it is a secret'
	Data Code	Maryamah Karpov/ p 105/ 2/ data 2
	Data Description	Ikal tells about secret something
3	Data	<i>"Setiap menceritakannya, dada Ketua Karmun turun naik, sering sampai matanya berkaca-kaca"</i> 'Every time I tell him, the heart of Ketua Karmun beats fast, he is also about to cry'
	Data Code	Maryamah Karpov/ p 94/ 12/ data 3
	Data Description	Ketua Karmun tells the story until he is about to cry
4	Data	<i>"Kuceritakan perkaraku. Mahar acuh tak acuh. Ia membelai dua ekor burung gagak peliharaanya"</i> 'I tell you my case. Mahar is apathetic. She caresses her two ravens'
	Data Code	Maryamah Karpov/ p 310/ 11/ data 4



	Data Description	Ikal tells his story to Mahar
5	Data	"A Ling berkisah tentang kerasnya Batuan dan berkali-kali ia gagal menyeberangi Selat Singapura" 'A Ling tells about the hardness of the rock and she fails to cross over the Singapore strait for many times'
	Data Code	Maryamah Karpov/ p 431/ 14/ data 5
	Data Description	A Ling tells what she had experienced

The behavior of the characters in the Maryamah Karpov novel showing that the cognitive levels of telling are such as father's story to Ikal, Ikal tells a secret, Ketua Karmun tells until he is about to cry, and A Ling tells about what had happened.

### Discussions

The identified behavior of the characters in the novel covers the level of knowledge in terms of understanding, applying, analyzing, evaluating, and creating. In fact, it also fills each indicator level of cognitive. This suggests that the behavior of characters in the Maryamah Karpov varied. Figures' behavior varies from the level of cognitive that is both simple to the complex. However, the dominance of the level of cognitive demonstrated by the behavior on the basis to determine the character of the novel which is utilized as a source of learning for students at certain ages.

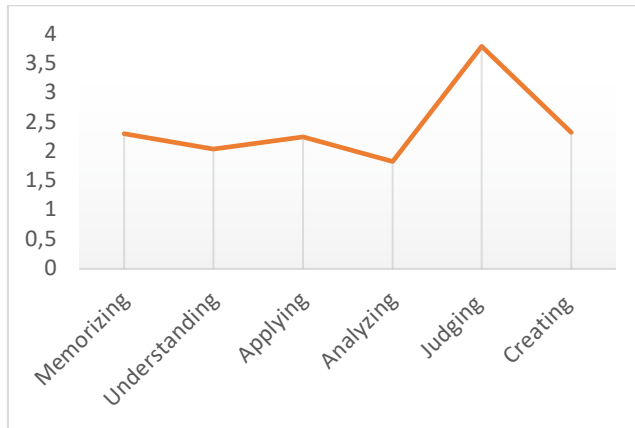
**Table 10.**

*Mapping of Knowledge, the Number of Indicators, and the Amount of Data*

No.	Cognitive level	The number of indicators	The amount of data for all indicators	Comparison between the number of indicators and the amount of data
1	Memorizing	13	30	2.307692308
2	Understanding	21	43	2.047619048
3	Applying	12	27	2.25
4	Analyzing	12	22	1.833333333
5	Rating	5	19	3.8
6	Creating	21	49	2.333333333

Table 10 shows the behavior of the characters and spreads to all levels of cognitive. Most of the data at the cognitive level of creating (C6), then cognitive level of understanding (C2). However, the steps in determining the dominance behavior of the specific figures regarding the cognitive level is not only based on the amount of the data. The determination of the dominance behavior is also based on the ratio between the overall data on the certain cognitive level with the number of

indicators at the cognitive level.



**Figure 1.**

*Dominance of Data on the Cognitive Level*

Figure 1 shows that the novel Maryamah Karpov is at the level of judging (C5) and creating (C6). Although the amount of data in assessing the level of cognitive at least, the determination of the dominance behavior of the characters based on comparison between the amount of data and the number of indicators at the same cognitive level.

Novel Maryamah Karpov classified into a novel that has a high cognitive level. This is divided into three categories, namely the low, medium, and high cognitive level. The high cognitive level indicates the level of complexity of thinking which is more complex compared with the medium and low one. The classification is depicted in the following table.

**Table 11.**

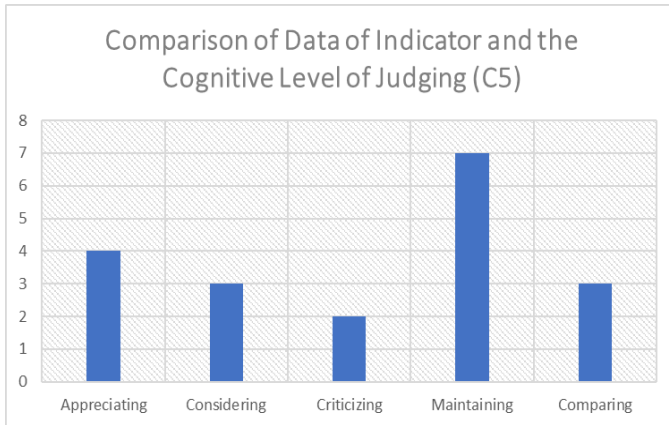
*Classification of the Level of Knowledge*

Knowledge level	Category
Memorizing Understanding	Low
Applying Analyzing	Medium
Judging Creating	High

The higher cognitive level demands a more complex thinking skill. In the novel, the dominance of the level of cognitive of the figures is judging (C5) with one of the indicators is in the form of behavior into account, will have an impact on students' thinking skills linearity. Students are required to be able to understand the behavior of considering in order to obtain a perfect interpretation. Vieluf and

Kerstin (2019) found proper and perfect interpretation to learning resources which will construct knowledge on students as well.

Students are expected to have a complex thinking skill when reading a novel with a predominance of high cognitive level. Therefore, Maryamah Karpov is more suitable to be read as a source of learning of high school students, compared to elementary school students. High school students have the ability to respect, consider, criticize, defend, and compare which are the indicators of the level of cognitive of rating, better than elementary school students. Riemer (2019) found students' cognitive abilities will develop in parallel with the capability of understanding the language. Students with good cognitive abilities, will be better in understanding the language. High school students have relatively better cognitive abilities, so in understanding the cognitive level of learning resources in the high category they found no trouble.



**Figure 2.**  
*Comparative Data on Indicators Assessing the Level of Cognitive (C5)*

The percentage figure shows that the cognitive level of assessing (C5) dominates in the novel Maryamah Karpov. The behaviors that indicate the level of cognitive of assessing distributed in several behavioral indicators, namely respect, consider, criticize, defend, and compare. The position of each indicator is parallel.

**Conclusion**

The level of cognitive depicted in the novel was obtained from the behavior of the figures. The behavior of the figures is classified into several level of cognitive such as remembering, understanding, applying, analyzing, judging, and creating. After that, the dominance of the behavior of certain figures on the level of cognitive is presented with the indicators. Maryamah Karpov novel falls into the category of high-level of cognitive. This category level shows the complexity of thinking. This

category includes the cognitive level of judging (C5) and creating (C6). Hence, this novel is more suitable as a source of learning for high school students.

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## References

- Barter, N. (2016). Strategy Textbooks and the Environment Construct. *Organization & Environment*, 29(3), 332.
- Beauvais, C. (2015). *The Mighty Child: Time and Power in Children's Literature*. John Benjamins Publishing Company (4th ed., Vol. 5). Amsterdam.
- Cartwright, K. B., Coppage, E. A., Lane, A. B., Singleton, T., Marshall, T. R., & Bentivegna, C. (2017). Cognitive flexibility deficits in children with specific reading comprehension difficulties. *Contemporary Educational Psychology*, 50, 33–44. <https://doi.org/10.1016/j.cedpsych.2016.01.003>
- Crane, N., Zusho, A., Ding, Y., & Cancelli, A. (2017). Domain-specific metacognitive calibration in children with learning disabilities. *Contemporary Educational Psychology*, 50, 72–79. <https://doi.org/10.1016/j.cedpsych.2016.09.006>
- Dore, R. A., Hassinger-Das, B., Brezack, N., Valladares, T. L., Paller, A., Vu, L., ... Hirsh-Pasek, K. (2018). The parent advantage in fostering children's e-book comprehension. *Early Childhood Research Quarterly*, 44, 24–33. <https://doi.org/10.1016/j.ecresq.2018.02.002>
- Eanes, R. (1997). *Content area literacy: teaching for today and tomorrow*. Texas: Delmar Publishers.
- Hansen, N., Jordan, N. C., & Rodrigues, J. (2017). Identifying learning difficulties with fractions: A longitudinal study of student growth from third through sixth grade. *Contemporary Educational Psychology*, 50, 45–59. <https://doi.org/10.1016/j.cedpsych.2015.11.002>
- Krathwohl, L. W. A. D. (2001). *A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*. New York: Longman.
- Marni, S., Suyono, Roekhan, & Harsiati, T. (2019). Critical Thinking Patterns of First-Year Students in Argumentative Essay. *Journal for the Education of Gifted Young Scientists*, 7(September), 683–697.
- Marzano, R. J. (1992). *A Different Kind of Classroom: Teaching with Dimensions of Learning*. Alexandria, Virginia, USA: Association for Supervision and Curriculum Development (ASCD).
- Miles, B. M., Huberman, M. (1992) *Analisis Data Kualitatif Buku Sumber tentang Metode-metode Baru*. Jakarta: UIP.
- Riemer, N. (2019). Cognitive Linguistics and the Public Mind : Idealist Doctrines, Materialist Histories. *Language & Communication*, 64, 38–52. <https://doi.org/10.1016/j.langcom.2018.09.002>
- Shamionov, R. M., & Grigoryev, A. V. (2019). The Image of Socially Active Individual in the Representations of Student Youth." *International Journal of Cognitive Research in Science, Engineering and Education*, 7(1), 15-20. DOI: <https://doi.org/10.5937/ijcrsee1901015S>
- Smith, B. (2002). *Breaking through: college reading*. New York: Longman.
- Vandenbroucke, L., Verschuere, K., Desoete, A., Aunio, P., Ghesquière, P., & Baeyens, D. (2018). Crossing the bridge to elementary school: The development of children's working memory components in relation to teacher-student relationships and academic achievement. *Early Childhood Research Quarterly*, 42(August 2017), 1–10. <https://doi.org/10.1016/j.ecresq.2017.08.004>
- Vieluf, S., & Kerstin, G. (2019). Making Intercultural Learning in EFL Lessons Interesting The Role of Teaching Processes and Individual Learning Prerequisites and Their Interactions. *Teaching and Teacher Education Journal*, 79, 1–16. <https://doi.org/10.1016/j.tate.2018.11.019>
- Wollman-Bonilla, J.E. & Werchadlo, B. (1995). Literature Response Journals in a First - Grade Classroom. *Language Arts*, 72(8), 562-570.
- Zhdanko, A. (2019). Identification of Cognitive Manipulations that Have The Greatest

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Impact on Students in The Internet. *International Journal of Cognitive Research in Science, Engineering and Education (IJCRSEE)*, 7(1), 35–42.  
<https://doi.org/10.5937/ijcrsee1901035Z>