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Abstract: Bullying is a negative behavior toward an individual or a group of individuals that is considered weak. The Ministry of Education Malaysia says that the types of bullying that is common in Malaysian schools are physical, verbal, anti-social and cyber bullying. Accordingly, this study aims to examine factorial validity on bullying in Malaysian secondary school context. This quantitative approach with cross sectional survey method study was conducted in 3 secondary schools with 140 students randomly selected. 12 sets of questionnaires from previous researchers were transformed into a set of questionnaire to measure the domain of bullying by category. The data analysis of this study involves descriptive statistics analysis and Principal Component Analysis (PCA). The result showed that 4 factors of bullying which explained 68% of variance. The four types of bullying are (i) physical bullying explained by 4 items, (ii) verbal bullying reflected by 4 items, (iii) anti-social explained by 4 items and (iv) cyber bullying explained by 3 items. The results also revealed that there was a difference between physical and verbal bullying and cyber bullying based on gender (p < 0.05), there was no difference between anti-social bullying by gender (p> 0.05), there was no difference between anti-social bullying and no differences between physical (p <0.05), verbal and cyber bullying by age (p>

Keywords: bully, physical bullying, verbal bullying, anti-social bullying, cyber bullying, Principal Component Analysis (PCA)

# I. INTRODUCTION

Bullying has existed in all communities since long ago. Bullying problems exist in the society of a developed or developing country commonly happen in schools. Studies show that bullying in schools has made schools no longer a safe place for students (Jan & Husain, 2015). In fact, according to Gomez-Ortiz, Romera and Ortega-Ruiz (2016), bullying is considered a serious problem in the school system worldwide. They found that bullying had a negative impact on academic performance. Even female students are more affected by bullying than male students (Sekol & Farrington, 2016). Sekol & Farrington (2016) stated that bullying in schools is considered a global problem affecting the emotional, social and physical well-being of school children worldwide. Jan and Husain (2015) opined that bullying can occur inside and outside the school such as in the classroom, in the school toilet, while waiting for the school bus, while on

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the bus, behind the school building or in a remote area away from teacher's sight. Bullying is defined as one of violence in the school [United Nations Educational, Scientific and Cultural Organisation (UNESCO, 2017)]. Bullying is a negative behavior toward an individual or group of individuals that is considered weak. According to Olweus (2013), bullying is a repeated aggressive behavior toward a person or group that is unable to defend themselves. Bullying is an act of beating and teasing, and the most passive form is an exclusion from social activities. WHO (2009) found that teenagers in the world bully at least once a week. While [United Nations Children's Fund (UNICEF, 2014)] report found that bullying among teenagers is a worldwide problem. Bullying among students can have adverse effects such as physical injury, permanent injury and even death (Anderson, Kaufman, Simon, Barriousthe Paulozzi & Ryan, 2001), segregation from socialization (Sharp, 1995 & Woods & Wolke, 2002), affect academic quality (Glew, Fan, Katon, Rivara & Kernis, 2005), and having trouble building socializing relationships with the school community (Yoneyama & Rigby, 2006), as well as causing mental health problems (Kumpulainen & Rasanen, 2000).

# II. BACKGROUND OF STUDY

UNESCO (2017) stated that bullying cases is one of the most reported violence in several countries such as Europe, North America, Australia and Asia. This is because data shows 80% of primary school children in the world are involved in bullying cases that often occur in the classroom (UNESCO, 2017). The UNICEF report (2014) based on data collected from various surveys of 106 countries, the number of teenagers involved in bullying cases is 7% in Tajikistan and 74% in Samao. Another survey found that half of adolescents in 14 of 67 low- and middle-income countries were involved in bullying cases. The Ministry of Education Malaysia (MOE) issued a statement indicating that there were 3011 bullying cases reported in 2015 and the number of cases increased to 3488 cases in 2016 (Yaacob, 2018). Gender differences, age, type of bullying, and country are variables of the research related to bullying. Guerra, Williams and Sadek (2010) conducted a meta-analysis of 153 studies and reported the correlation of gender with bully, victim and bully / victim. While the study of Cook, Williams, Guerra, Kim and Sadek (2010) found that the correlation between male and bullying was r = 0.18. Whereas gender differences data on bullying seem less consistent and is usually small. Cook et al. (2010) found that the correlation between female to victim ratio was r = 0.06.

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According to them, gender differences in rates of bullying and victimization were less reported. Cook et al. (2010) found that the correlation of male to victim ratio was r = 0.10. While the study conducted by Currie et al. (2008), showed that cases of bullying in boys (14%) were greater than in girls (11%). Further, literature review of 109 articles by Barlett and Coyne (2014) found that overall cyber bullying among male was greater than that of female. A study of age-based bullying behavior was conducted by Guo (2016) and found that age was not a moderator for cyber bullying and cyber bullying victims. However, previous studies (Smith, Madsen, & Moody, 1999; Scheitauer, Hayer, Petermann, & Jugert, 2006; Barlett & Coyne, 2014; Guo, 2016) have shown that age and gender differences regarding bullying are inconsistent. Additionally, according Awaluddin, Yusoff and Aris (2017) a study by the National Health and Morbidity Survey (NHMS) by the Institute of Public Health (Ministry of Health) found that the percentage of bullying among the 13-year-olds was highest (22.8% of cases), followed by the 14-year-olds (19.0%), 15-year-old students (15.0% cases), 16-year-olds (13.4% cases) and 17-year-olds (10.2% cases). Statistics based on Table 1 show that junior students have a greater chance of being involved in bullying cases than older students.

Table 1: Percentage of bullying by age

Age	Percentage of bullying cases
	in Malaysia 2017
13 years	22.8%
14 years	19.0%
15 years	15.0%
16 years	13.4%
17 years	10.2%

On the whole, bullying has a huge impact on students' emotions and safety in schools as students today are at risk of dealing with some form of bullying such as physical, verbal, anti-social and cyber bullying (Olweus, 1993; Rigby & Slee, 1991; Wolfer, 2013). Therefore, this study was conducted to identify valid factors for measuring physical, verbal, anti-social and cyber bullying in the context of Malaysian secondary school students.

# III. RESEARCH QUESTIONS

- 1. What is the construct validity of bullying types namely physical, verbal, anti-social and cyber using exploratory factor analysis (EFA) with sample of Malaysian Secondary School?
- 2. What are the differences of Malaysian secondary students towards bullying (physical, verbal, anti-social and cyber) based on gender and age?

## IV. METHOD

# A.Research Design

This study applied a quantitative approach to the design of a cross sectional survey study (Creswell, 2014). A set of questionnaires was used to collect data to identify the direction and influence of the study constructs (Creswell, 2014; Bakker, 2018). The constructs in this study were physical bullying, verbal bullying, anti-social bullying and cyberbullying.

#### **B. Sampling Design**

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The study sample consisted of 140 secondary school students in the Northern states of peninsular Malaysia. The sample size of this study satisfies the sample size for stratified random sampling techniques which is between 10% and 35% of the total population (Bryman & Cramer, 2009). Stratified random sampling was used in this study. This method is selected because it allows certain small groups to have the opportunity to be selected as sample at the same rate as in the population (Fraenkel & Wallén, 2006). According to (McMillan & Schumacher, 2001; Fraenkel & Wallen, 2006), stratified random sampling can represent a population, if the sample is not large. Table 2 shows sample stratified selection based on respondents' criteria.

> Table 2: Sample stratified selection based on respondents' criteria.

respondents eriteria.					
No.	School	Number Percentage		Number	
		of		of sample	
		students			
		in Forms			
		1,2 and 4			
1.	A	188	188 X 25%	47	
2.	В	180	180 X 25%	45	
3.	С	192	192 X 25%	48	
	TOTAL	560	560 X 25%	140	

#### **C.Instrument**

The instrument of this study involved two sections Part A (demographic of respondent), Part B measuring bullying by category. Instruments for measuring bullies by category such as physical, verbal, anti-social and cyber bullying are instruments that have been modified and translated by researchers who had combined the items from several previous researchers namely Orpinas and Frankowski (name of instrument: Aggression scale,  $\alpha = 0.88-0.90$ , year: 2001), Parada (name of instrument: Adolescent Peer Relations Instrument,  $\alpha = 0.83 - 0.95$ , year: 2000), Bosworth Espelage & Simon, (name of instrument: Modified Aggression Scale,  $\alpha = 0.70 - 0.83$ , year: 1999), Warden, Cheyne, Christie, Fitzpatrick, and Reid (name of instrument: Child Social Behavior Questionnaire,  $\alpha = 0.63 - 0.68$ , year: 2003), Austin and Joseph (name of instrument: Bullying-Behavior Scale, α = 0.82, year: 1996), Crick and Grotpeter, (name of instrument: Children's Social Behavior Scale - Self Report,  $\alpha = 0.83-0.94$ , year: 1995), Chan, Myron, and Crawshaw (name of instrument: School Life Survey,  $\alpha = 0.83-0.94$ , year: 2005), Tarshis and Huffman (name of instrument: Children's Social Behavior Scale – Self Report,  $\alpha = 0.90$ , year: 2007), Poteat and Espelage, (name of instrument: Homophobic Content Agent Target Scale,  $\alpha = 0.77-0.85$ , vear: 2005). Williams and Guerra (name of instrument: Student School Survey,  $\alpha = 0.73-0.93$ , year: 2007), Hinduja and Patchin, (name of instrument: Bully Survey,  $\alpha =$ 0.74-0.76, year: 2009).

# **D.Face and Content Validity**

Face validity and content validity involved 3 experts; experts in assessment and measurement, experts in item and instrument development and experts in educational psychology. The results of the three experts presented in Table 3.

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Table 3: Items in the instrument				
Item	Question	Domain		
PF1	I fought back when someone hit	Physical		
	me first.	bullying		
	Saya melawan balik apabila			
	saya dipukul			
PF2	I pushed other students.	Physical		
	Saya tolak pelajar lain	bullying		
PF3	I got into a physical fight because	Physical		
	I was angry.	bullying		
	Saya bergaduh secara fizikal			
	apabila saya marah.			
PF4	I slapped other students.	Physical		
	Saya tampar pelajar lain.	bullying		
PF5	I kicked other students.	Physical		
	Saya tendang pelajar lain.	bullying		
PF6	I hit other students.	Physical		
	Saya pukul pelajar lain.	bullying		
PF7	I crashed into a student on	Physical		
	purpose as they walked by	bullying		
	Saya langgar pelajar lain			
DEC	dengan sengaja	DI : 1		
PF8	I got into a physical fight with a	Physical		
	student because I didn't like	bullying		
	them.			
	Saya bergaduh secara fizikal			
DEC	dengan pelajar lain	D1 ' 1		
PF9	I punched other students.	Physical		
DE10	Saya tumbuk pelajar lain.	bullying		
PF10	I threw something at a student to hit them.	Physical		
	Saya baling benda kepada	bullying		
	pelajar lain supaya mengenai			
	mereka			
PF11	I threatened to physically hurt or	Physical		
1111	harm a student.	bullying		
	Saya mengancam untuk	ounying		
	mencederakan pelajar lain			
	secara fizikal			
PF12	I joined in with a group of	Physical		
	children to hurt another children	bullying		
	Saya berpakat dengan			
	sekumpulan pelajar untuk sakiti			
	pelajar lain			
PF13	I broke another child's things	Physical		
	because I want to upset them	bullying		
	Saya rosakkan barangan pelajar			
	lain supaya mereka sedih			
PF14	I took things from other students	Physical		
	and did not give them back	bullying		
	Saya tidak pulangkan barang			
	yang saya ambil daripada			
	pelajar lain			
PF15	I have badly beaten somebody up	Physical		
	Saya pukul pelajar lain dengan	bullying		
	teruk	71		
PF16	I carried a knife or sharp weapon	Physical		
	or other blade	bullying		
	Saya bawa pisau atau benda			
	tajam untuk menakutkan pelajar			
DE17	lain	DI : 1		
PF17	I have threatened someone with a	Physical		
	knife or sharp weapon.	bullying		

	Saya mengancam pelajar lain	
DE10	dengan senjata tajam	DI 1 1
PF18	I have attacked someone with a	Physical
	knife or sharp weapon	bullying
	Saya menyerang pelajar lain	
DE10	dengan senjata tajam	DI 1 1
PF19	I have sexually harassed	Physical
	someone	bullying
	Saya mengganggu pelajar lain	
	secara seksual	
PF20	I have sexually assaulted	Physical
	someone	bullying
	Saya menyerang pelajar lain	
	secara seksual	
PF21	I have robbed someone	Physical
	Saya mengambil duit pelajar lain	bullying
PF22	I have gotten into a fight after	Physical
	drinking or getting high	bullying
	Saya bergaduh semasa	
	mabuk/khayal	
PF23	I destroyed other people's	Physical
	belongings and vehicles	bullying
	Saya merosakkan harta benda	
DE2 4	dan kenderaan pelajar lain	D1 1 1
PF24	I cuddled students of my	Physical
	opposite gender	bullying
	Saya memeluk pelajar lain	
PV1	jantina	Verbal
PVI	I teased students to make them	
	angry.	bullying
	Saya pernah mengusik pelajar lain secara lisan sehingga dia	
	marah	
PV2	I got angry very easily with	Verbal
1 12	someone.	bullying
	Saya sangat mudah marah	bullying
	dengan pelajar lain	
	cierizani percijan tanit	
PV3		Verhal
PV3	I called other students bad	Verbal
PV3	I called other students bad names.	Verbal bullying
PV3	I called other students bad names. Saya pernah panggil pelajar lain	
PV3	I called other students bad names. Saya pernah panggil pelajar lain dengan nama yang mereka tidak	
PV3	I called other students bad names. Saya pernah panggil pelajar lain	
	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.	bullying  Verbal
	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk	bullying
PV4	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain	Verbal bullying
	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.	Verbal bullying  Verbal
PV4	I called other students bad names. Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka I threatened to hurt someone. Saya pernah mengancam untuk sakiti pelajar lain I threatened to hit someone. Saya pernah mengancam untuk	Verbal bullying
PV4	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain	Verbal bullying  Verbal
PV4	I called other students bad names. Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka I threatened to hurt someone. Saya pernah mengancam untuk sakiti pelajar lain I threatened to hit someone. Saya pernah mengancam untuk	Verbal bullying  Verbal bullying
PV4	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to	Verbal bullying  Verbal bullying  Verbal
PV4	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.	Verbal bullying  Verbal bullying  Verbal
PV4 PV5 PV6	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar	Verbal bullying  Verbal bullying  Verbal bullying
PV4	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar lain dengan kata-kata yang	Verbal bullying  Verbal bullying  Verbal
PV4 PV5 PV6	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar lain dengan kata-kata yang menyakitkan hati mereka  I yelled at others and called them mean names.	Verbal bullying  Verbal bullying  Verbal bullying
PV4 PV5 PV6	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar lain dengan kata-kata yang menyakitkan hati mereka  I yelled at others and called them mean names.  Saya pernah mengherdik pelajar	Verbal bullying  Verbal bullying  Verbal bullying  Verbal bullying
PV4 PV5 PV6	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar lain dengan kata-kata yang menyakitkan hati mereka  I yelled at others and called them mean names.  Saya pernah mengherdik pelajar dengan memanggil mereka	Verbal bullying  Verbal bullying  Verbal bullying  Verbal bullying
PV4 PV5 PV6	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar lain dengan kata-kata yang menyakitkan hati mereka  I yelled at others and called them mean names.  Saya pernah mengherdik pelajar dengan memanggil mereka dengan nama yang buruk	Verbal bullying  Verbal bullying  Verbal bullying  Verbal bullying
PV4 PV5 PV6	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar lain dengan kata-kata yang menyakitkan hati mereka  I yelled at others and called them mean names.  Saya pernah mengherdik pelajar dengan memanggil mereka dengan nama yang buruk  I make jokes about them.	Verbal bullying  Verbal bullying  Verbal bullying  Verbal bullying  Verbal bullying
PV4 PV5 PV6	I called other students bad names.  Saya pernah panggil pelajar lain dengan nama yang mereka tidak suka  I threatened to hurt someone.  Saya pernah mengancam untuk sakiti pelajar lain  I threatened to hit someone.  Saya pernah mengancam untuk memukul pelajar lain  I teased them by saying things to them.  Saya pernah mengusik pelajar lain dengan kata-kata yang menyakitkan hati mereka  I yelled at others and called them mean names.  Saya pernah mengherdik pelajar dengan memanggil mereka dengan nama yang buruk	Verbal bullying  Verbal bullying  Verbal bullying  Verbal bullying

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PV9	I picked on a student by swearing	Verbal
	at them.	bullying
	Saya pernah memaki pelajar lain	
PV10	I said things about their looks	Verbal
	that they didn't like.	bullying
	Saya pernah mengutuk	
	penampilan pelajar lain.	
PV11	I told my friends things about a	Verbal
	student to get them into trouble.	bullying
	Saya pernah fitnah pelajar lain	
	supaya dia berasa susah	
PV12	I fought students I could easily	Verbal
	beat.	bullying
	Saya pernah bergaduh dengan	
	pelajar yang lemah	
PV13	I started (instigated) arguments	Verbal
	or conflicts among students.	bullying
	Saya pernah mencetuskan	, ,
	pertengkaran dalam kalangan	
	pelajar.	
PA1	I told lies about a classmate so	Anti-social
	that the other kids won't like	bullying
	him/her anymore.	, ,
	Saya pernah berkata bohong	
	tentang seseorang pelajar	
	supaya dia tidak disukai	
PA2	I told my friends that I will stop	Anti-social
	liking them unless my friends do	bullying
	what I say.	, , , , , , , , , , , , , , , , , , ,
	Saya pernah mengugut untuk	
	tidak berkawan dengan rakan	
	saya jika tidak mengikut apa	
	yang saya suruh	
PA3	I asked my friends to turn against	Anti-social
	another student.	bullying
	Saya pernah menghasut rakan	, ,
	saya untuk menentang pelajar	
	lain.	
PA4	I asked other student to start a	Anti-social
	rumor about another student.	bullying
	Saya pernah berpakat dengan	
	rakan untuk menyebarkan	
	khabar angin tentang pelajar	
	lain.	
PA5	I asked other students to ignore a	Anti-social
	student.	bullying
	Saya pernah berpakat dengan	
	rakan untuk memulaukan pelajar	
	lain.	
PA6	I purposely left them out of	Anti-social
	activities or games.	bullying
	Saya pernah dengan sengaja	
	tidak melibatkan pelajar lain	
	dalam aktiviti dan permainan .	
PA7	I kept a student away from me by	Anti-social
	giving them mean looks.	bullying
	Saya pernah membuat mimik	
	muka yang menakutkan supaya	
	pelajar lain menjauhi saya	
PA8	I excluded other students from	Anti-social
	my clique of friends.	bullying
	Saya pernah menyingkirkan	
	pelajar lain daripada menjadi	
	релијат тат интриин тепјин	

	****	
	ahli kumpulan saya	
PA9	I gave other students mean or	Anti-social
	"dirty" looks	bullying
	Saya pernah memerhatikan	
	pelajar lain dengan pandangan	
	yang menakutkan atau seperti	
	berniat jahat	
PA10	I kept other students from being	Anti-social
	friends with people I didn't like.	bullying
	Saya pernah menghalang pelajar	, , , , , , , , , , , , , , , , , , ,
	lain daripada berkawan dengan	
	pelajar yang saya tidak suka	
PA11	I kept those I didn't like from	Anti-social
IAII	joining in play time or group	bullying
	activities.	builying
	Saya pernah menghalang pelajar	
	lain untuk menyertai aktiviti atau	
D 1 10	permainan berkumpulan	
PA12	I cheered when someone was	Anti-social
	beating up another student.	bullying
	Saya pernah bersorak apabila	
	rakan saya memukul pelajar lain	
PA13	I joined in when students told lies	Anti-social
	about other students.	bullying
	Saya pernah menyertai	
	kumpulan pelajar yang sedang	
	menfitnah tentang pelajar lain	
PS1	I lied about my age while online	Cyber
	using social media	bullying
	Saya pernah menipu tentang	, , , , , , , , , , , , , , , , , , ,
	umur saya ketika menggunakan	
	media sosial	
PS2	I posted something online using	Cyber
152	social media about someone else	bullying
	to make others laugh	ourrying
	Saya pernah	
	mempamerkan/mengepos	
	tentang seseorang rakan di	
	media sosial untuk membuatkan	
DC2	orang lain tertawa	Carlana
PS3	I sent someone a private message	Cyber
	to make him/her angry or to	bullying
	make fun of him/her	
	Saya pernah menghantar mesej	
	terus kepada seseorang untuk	
	mempersendakannya atau	
	membuat dia marah	
PS4	I commented something about	Cyber
	the picture that someone shared	bullying
	online to make fun or make	
	him/her angry	
	Saya pernah komen sesuatu	
	tentang gambar yang dikongsi	
	seseorang di media sosial untuk	
	mempersendanya atau	
	membuatnya marah.	
PS5		t
	I posted something about	Cvber
155	I posted something about someone else online to make	Cyber bullying
155	someone else online to make	Cyber bullying
155	someone else online to make others laugh at him/her.	
155	someone else online to make others laugh at him/her. Saya pernah mempamerkan	bullying
	someone else online to make others laugh at him/her.	

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PS6	I told lies or make fun of some students using the Internet	Cyber bullying
	(email, instant messaging, cell	ounying
	phone text messaging, or	
	websites).	
	Saya pernah mempersendakan	
	pelajar lain dengan	
	menggunakan media sosial .	

Note: PF = physical bullying, PV = verbal bullying, PA = anti-social bullying, PS = cyber bullying.

#### E. Data Collection

The process of data collection involved several steps, namely (i) obtaining approval from the Ministry of Education through the Education Policy Planning and Research Division (EPRD), (ii) obtaining consent from the school to conduct the study by submitting a letter of approval from the EPRD. During data collection, the self administrated method was applied. The self administrated rationale was used to enable the researcher to be directly involved in the data collection process of this study. The purpose of the survey and the method of selection of respondents were explained to the school administrators for mutual consent. A school counselor was appointed to assist the researcher in managing the meeting between the researchers and the students during the data acquisition process. The date and time for further data collection was agreed upon by both parties for the three schools involved in this study.

## F. Test Analysis

The data analysis of this study used Statistical Package for the Social Sciences (SPSS) software version 25. The analysis of this study involved descriptive statistics analysis and Exploratory Factor Analysis (EFA). It is used to determine construct validity of different type of bullying (Hair, Hult, Ringle & Sarstedt, 2016). PCA is the common statistical tool used to determine the valididty of construct (Tabachnick & Fidell, 2007). It helps to reduce set of items into factors without certification. In this study the data was analysed using PCA and rotated by varimax rotation with at least 0.50 of factor loading. Through this analysis, items with a factor loading value of 0.50 and above were retained (Hair, Black, Babin & Anderson, 2010). To retain number of factors, the study used the criteria set by Kaiser (1970), where factors with eigen values greater than 1.0 will be retained (Hair, Hult, Ringle & Sarstedt 2016). Table 4 shows a summary of EFA requirements in the data set.

Table 4. Summary of EFA requirements in the data set

Table 4: Summary of EFA requirements in the data se				
Analysis	Requirement	Reference		
Eigen value	Eigen value	Hair, Hult,		
	greater than 1.0	Ringle &		
		Sarstedt		
		(2016)		
Bartlett's Test of	Significant if (p <	Tabachnick &		
Sphericity	0.05)	Fidell (2007)		
Kaiser-Meyer-Olkin	KMO value $\geq 0.5$	Hair, Hult,		
(KMO)		Ringle &		
Index		Sarstedt		
		(2016);		
		Malhotra		
		(2007)		

## **V.RESULT**

Return rate of instrument set was considered good where out of 150 sets of distributed instruments, 90.00% or 140 sets of

questionnaire were recovered by the researcher. Descriptive analysis based on respondents' demographic profiles showed acceptable values based on the scale used. The three schools involved in this study were School A (47 students, 33.6%), School B (45 students, 32.1%) and School B (48 students, 34.3%). Table 5 shows the demographic profiles of the respondents involved in this study. A total of 66 male students (47.1%) and 74 female students (52.9%) were involved in the study. Subsequently, the study involved 132 Malay students (94.3%), 3 Chinese (21%), 4 Indians (2.9%) and 1 other ethnicity (.7%). The proportion of respondents based on age was 46 13-year old students (32.9%), 44 14-year old students (31.4%) and 50 16 year students (35.7%). The distribution of respondent based on demographics is as shown in Table 5.

Table 5: Demography of Respondents (n=140)

Table 3. Demography of Respondents (n=140)						
Variable	Category	Frequency	Percentage (%)			
School	A	47	33.6			
	B	45	32.1			
	C	48	34.3			
Gender	Male	66	47.1			
	Female	74	52.9			
Ethnicity	Malay	132	94.3			
	Chinese	3	2.1			
	Indian	4	2.9			
	Others	1	.7			
Age	13 years old	46	32.9			
	14 years old	44	31.4			
	16 years old	50	35.7			

The following table shows the results of the Preliminary analysis. The results showed that the Anti-image correlation values ranged from 0.72 to 0.91. Whereas the KMO value is 0.83, (KMO $\geq 0.5$ ), the Barlett's test of sphericity is 0.00 (p <0.05) and the Eigen Value is 1.04 (Eigen> 1.0). These values meet the requirements of the EFA recommended by Kaiser (Tabachnick & Fidell, 2007; Hair, Hult, Ringle & Sarstedt, 2016)

**Table 6: Output of Preliminary Analysis** 

Analysis	Output
Anti-image correlation	0.72 - 0.91
KMO	0.83
Barlett's test of sphericity	p < 0.05
Eigen value	1.04

Research question 1: What is the construct validity of bullying types namely physical, verbal, anti-social and cyber using exploratory factor analysis (EFA) with sample of Malaysian Secondary School?

Table 7 shows the result of exploratory factor analysis (EFA) showed 4 factors of bullying which explained 68% of variance. The four types of bullying are (i) physical bullying that are explained by 4 items, (ii) verbal bullying that are reflected by 4 items, (iii) anti-social are explained by 4 items and (iv) cyber bullying are explained

by 3 items.

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Table 7. Factor leading and reliability of items

Ia	oie /: Fa	actor 10a	ading an	a renabi	lity of ite	ems
Domai	Item	Facto	Facto	Facto	Facto	α
n		r 1	r 2	r 3	r 4	
Physi	PF1	0.611				0.84
cal						
bully						
	PF2	0.86				
	PF3	0.91				
	PF4	0.79				
Verba	PV1		0.76			0.81
1						
bully						
	PV2		0.81			
	PV3		0.72			
	PV4		0.85			
Anti-	PA1			0.68		0.76
social						
bully						
	PA2			0.63		
	PA3			0.83		
	PA4			0.81		
Cyber	PS1				0.56	0.81
bully						
	PS2				0.89	
	PS3				0.92	

Research question 2: What are the differences of Malaysian secondary students towards bullying (physical, verbal, anti-social and cyber) based on gender and age?

Table 8 shows the results of the T-test which found that there was a difference between physical (p < 0.05, p = 0.007)., verbal (p < 0.05, p = 0.020) and cyber bullying (p < 0.05, p = 0.008) based on gender. However, there was no difference between anti-social bullying (p > 0.05, p = 0.0627) by gender.

Table 8:	Table 8: T-test Analysis of bullying by gender category						
Domai	Mean	SD	t	p	D		
n							
Physic	Male = 1.60	.62	2.74	.007	138		
al							
bully							
	Female =	.56					
	1.33						
Verbal	Male = 1.83	.75	2.36	.020	138		
bully							
	Female =	.61					
	1.56						
Anti-s	Male = 1.42	.58	1.88	.062	114.78		
ocial							
bully							
	Female =	.40					
	1.26						
Cyber	Male = 1.42	.60	2.68	.008	112.13		
bully							
	Female =	.41					
	1.19						

Whereas Table 9 shows the results of the ANOVA test that found that there was a difference between anti-social bully [F(2,137) = 4.605, p < 0.05, p = 0.012] and no difference between physical bully [F(2,137) = 0.034, p > 0.05, p =0.967], verbal bully [F(2,137) = 1.232, p > 0.05, p = 0.295] and cyber bully [F(2,137) = 2.365, p > 0.05, p = 0.098] by

Table 9: ANOVA analysis of bullies by age category

		Sum of	df	F	р
		Squares	ui	1	Р
Physical	Between	.025	2	.034	.96
bully	Groups				7
	Within	50.843	137		
	Groups				
	Total	50.868	139		
Verbal	Between	1.176	2	1.232	.29
bully	Groups				5
	Within	65.371	137		
	Groups				
	Total	66.546	139		
Anti-so	Between	2.171	2	4.605	.01
cial	Groups				2
bully	Within	32.300	137		
	Groups				
	Total	34.471	139		
Cyber	Between	1.248	2	2.365	.098
bully	Groups				
	Within	36.152	137		
	Groups				
	Total	37.400	139		

Table 10 shows the results of Post Hoc multiple comparison analysis showing that there is a significant difference between a 13-year-old anti-social bully and a 14-year-old anti-social bully whereby a 13-year-old bully is more compared to a 14-year-old (mean difference = 0.287). In addition, the findings found that there is a significant difference between 16-year-old anti-social bully and 14-year-old anti-social bully in which 16-year-old bully is more than 14 years old (mean difference = 0.247).

Table 10: Multiple comparison Post Hoc

Table 10: Multiple companison 1 ost 110c									
					95% Confidence				
					Interval				
			Mean						
Dependent	(I)	(J)	Differenc		Lower	Upper			
Variable	Age	Age	e (I-J)	Sig.	Bound	Bound			
	13	14	.28681*	.016	.0442	.5294			
Anti-social		16	.04022	.913	1948	.2753			
bullying	14	13	28681*	.016	5294	0442			
		16	24659*	.040	4844	0088			
	16	13	04022	.913	2753	.1948			
		14	.24659*	.040	.0088	.4844			

# VI. DISCUSSION

This study showed 4 types of bullying perpetrators for Malaysian secondary school context. These types of bullying was supported by Peck (2019), Papacosta, Paradeisioti and Larou (2014), Olweus (1991), Suckling and Temple (2002) and National Association of Human Rights of Malaysia (2018). The exploratory factor analysis had extracted of 4 items for each construct of physical, verbal and anti-social respectively, while 3 items for cyber bullying perpetrators.





All items had high factor loading of .56 to .92 indicating that each item exceeding the threshold value of .45 as recommended by Hair, 2006. 68% of variance was explained by these 4 constructs which is higher than significant level of 60% set by Hair, Black, Babin, Anderson and Tatham (2006). The internal consistency reliability of items for each construct was achieved in this study. Internal consistency reliability is achieved when items used to measure the construct are "capable of independently measuring the same concept so that the respondents attach the same overall meaning to each of the items" (Sekaran & Bougie, 2016). The result of analysis indicated that each construct are supported by reliable indicators. Physical bullying perpetrators is supported by its 4 indicators with alpha level of .84, verbal with .82, anti-social with .76, and cyber with .82 respectively indicating that all factors in the study are statistically significant and highly reliable. Furthermore, the analysis indicated that perpetrators of bullying are significantly different between genders for 3 categories. Male students is more likely to be perpetrators as compared to female students on these 3 types of bullying; physical (p=.007), verbal (p =.020) and cyber bullying (p=.008) respectively. However, anti-social bullying in terms of gender did not signify any differences. National Health report (2017) showed that male bully more than female among adolescent. This study give further explanation on types of bullying that male is likely to do.Interestingly, the study found that bullying perpetrators is significantly different when it is tested across age. 13 years old students is more likely to be perpetrators for anti-social bullying (p<.012) as compared to their elder students. This finding supported the previous results by National Health report (2017). As for other types of bullying; physical, verbal and cyber no significant differences was found across ages.

# VII. CONCLUSION

This study confirmed validity of 4 categories of bullying perpetrators among secondary school. The findings are very useful, especially for school to identify different types of bullying might happen in their respective schools. These 4 constructs found to explain 68% of bullying. The study showed that gender has significant effect on bullying. Male student found to be perpetrator of physical, verbal and cyber bullying more as compared to female student. Furthermore, the study found that age play significant effect on anti-social bullying only where younger student is more likely to be perpetrators of anti-social bullying in the school.

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