

# **RUKUN NEGARA**

#### Bahawasanya Negara Kita Malaysia

mendukung cita-cita hendak:

Mencapai perpaduan yang lebih erat dalam kalangan seluruh masyarakatnya;

Memelihara satu cara hidup demokrasi;

Mencipta satu masyarakat yang adil di mana kemakmuran negara akan dapat dinikmati bersama secara adil dan saksama;

Menjamin satu cara yang liberal terhadap tradisi-tradisi kebudayaannya yang kaya dan pelbagai corak;

Membina satu masyarakat progresif yang akan menggunakan sains dan teknologi moden.

MAKA KAMI, rakyat Malaysia, berikrar akan menumpukan seluruh tenaga dan usaha kami untuk mencapai cita-cita tersebut berdasarkan prinsip-prinsip yang berikut:

### KEPERCAYAAN KEPADA TUHAN KESETIAAN KEPADA RAJA DAN NEGARA KELUHURAN PERLEMBAGAAN KEDAULATAN UNDANG-UNDANG KESOPANAN DAN KESUSILAAN

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TEACHER'S LOTES

Ask pupils to talk about the pictures above. Relate money to daily life.
Instil values of being thrifty for savings and future investments.



















• Expose pupils to the process of incoming cash and outgoing cash using a bank account.

4.3.1

• Emphasise that any price cheaper than the original price needs to be subtracted, and price more expensive than the original price needs to be added.



Emphasise on calculations involving regrouping.



6	Calculate the pr $3 \times RM82.30 = ($ $RM  8 \ 2 \ . 3$ $\times {RM \ 2 \ 4 \ 6 \ . 9}$ $3 \times RM82.30 = ($ The price of 3	rice of 3 . 6 0 3 7 0 RM246.90 is RM246.9	Multiply the set $3 \times 30$ sen = Then, multiply the $3 \times RM82 =$	32.30 en value. 90 sen bly the lue. RM246
7	9 × RM317.80 =			
	RM 3 × RM 2 8 6	7 7.80 9 50.20	9 × 80 sen = 720 720 sen 700 20 720 sen = RM7.2	) sen ) sen = RM7 sen 0
	9 × RM317.80 =	RM2 860.20		
Contraction of the second	LET'S TRY	Welver		
	Calculate.			
	a 4 × RM340 =		<b>b</b> 2 × RM506 =	
	c 6 × RM807.15	5 =	<b>d</b> 8 × RM794.2	0 =
2	Find the total co	est.		
	Item	Quantity	Price per unif	lotal cost
		10	RM245.50	
		100	RM68	
	Norebook	1 000	RM5	
LIO KPM	AB 52-83 TRUETERS FOR	courage pupils to use var	ious methods of calculation.	4.4.1





ringgit and sen must be aligned.

4.5.1

![](_page_17_Figure_0.jpeg)

![](_page_18_Figure_0.jpeg)

# OTHER COUNTRIES

![](_page_19_Picture_1.jpeg)

![](_page_20_Picture_0.jpeg)

Country	Currency	The value of foreign currency compared to RMI
Singapore	dollar	0.34
Thailand	baht	8.22
Indonesia	rupiah	3 551.59
Phillipines	peso	13.18
Brunei	dollar	0.34
Vietnam	dong	5 706.76
Laos	kip	2 083.18
Cambodia	riel	I 003.82
Myanmar	kyat	352.42

Source: https://www.xe.com/currency/myr-malaysian-ringgit, 18/07/2018

![](_page_20_Picture_3.jpeg)

![](_page_21_Picture_0.jpeg)

![](_page_21_Figure_1.jpeg)

#### We must meet our **needs** so that we can continue with our lives. Wants improve the quality and comfort of our lives.

![](_page_21_Picture_3.jpeg)

![](_page_21_Picture_4.jpeg)

Discuss that spending must be based on the money that we own.
Encourage pupils to be prudent in spending and savings.

EACHER

NOTES

![](_page_22_Picture_0.jpeg)

• Discuss social responsibility such as giving donations to ease the lives of those in need.

![](_page_22_Picture_2.jpeg)

![](_page_23_Picture_0.jpeg)

Tools/Materials

pictures from catalogues, old magazines and the Internet, scissors, glue, manila cards, coloured A4 paper

Participants

2 pupils per group

![](_page_23_Picture_5.jpeg)

- Collect pictures of needs, wants, savings, and investments.
- 2 Write and paste titles on coloured A4 paper.
- Paste pictures according to the title.

pupils' cooperation.

4 Present your work.

![](_page_23_Picture_10.jpeg)

LET'S TRY
Give 3 needs and 3 wants in daily life.
State 2 advantages of saving money.
List things that you can donate.

4.7.1 4.7.2 KPM

![](_page_24_Picture_0.jpeg)

![](_page_25_Picture_0.jpeg)

Based on the conversation above, what is the price of the laptop?

![](_page_25_Figure_2.jpeg)

2	Item	Price			
	Camera	RM980			
	Leather bag	RM275 less than the price of the camera			
	Zarif's mother buys a camera and a leather bag. Calculate the total cost Zarif's mother has to pay based on the table above.				
	Given prive the RM of o	te of camera RM980 price of leather bag is 275 less than the price camera			
	Find tot	al cost to be paid			
	Method RM	780 – RM275 + RM980 =			
	R – R R R The is	$\frac{710}{M9.80} + RM  70.5 + RM  98.0 - RM1  68.5$ $\frac{70.5}{M7.05} + RM980 = RM1  685$ $\frac{70.5}{RM1  68.5} + RM980 = RM1  685$ $\frac{70.5}{RM1  68.5} + RM980 = RM1  685$ $\frac{70.5}{RM1  68.5} + RM980 = RM1  68.5$			
		s her balance after she bought the amera and the leather bag above?			
22 KPM	e Co pr • Dia ar	rry out simulation activities to reinforce pupils' understanding in solving blems involving money. cuss various problem-solving strategies such as effective logical reasoning d drawing diagrams.			

3 6 of Encik Sham's family members join a group tour to Gold Coast, Australia. The total cost is RM8 268. What is the cost for one person?

![](_page_27_Picture_1.jpeg)

Tim's mother pays RM2 000 for a kitchen cabinet that costs RMI 975. What is her balance? State the total number of RM5 and RMI0 notes she receives

> Encourage pupils to estimate their answers before calculating and comparing the actual answers to the estimated ones.

![](_page_27_Picture_4.jpeg)

![](_page_27_Picture_5.jpeg)

![](_page_28_Picture_0.jpeg)

## WHO HAS THE MOST MONEY?

4 sets of question cards, play money,

count forms

## Method

- Each group receives RM500 and a count form.
- 2 Groups I, 2 and 3 move to stations I, 2 and 3.
- 3 Take a question card. Do calculations.
- 4 Receive money from the cashier or pay money to the cashier at own stations.
- 5 Record the money given or received in the count form.
- 6 The group that has finished moves to station 4 or stations that are empty.
- 7 Repeat steps 3 until 6. Each group must go to stations I until 4.
- 8 Calculate the final amount of money at station 5.
- 9 The winner is the group that calculates correctly.

![](_page_28_Picture_14.jpeg)

**Examples of Question Cards** arn Hari Rayc Won design competition. Bought gift for money. grandfather. RM400 2M20 RM80 Station I Earn money from Donated to selling old Congratulationst Win a quiz flood victims. newspapers. **RM90** RM400 MAG Station 2 Grandmother Divided RM600 gave money. equally with my equuny with my younger brother. RM30 How much did RM100 Bought 4 books. I get? Station 3 Cost of a wallet is RM60. Received investment I bought 2 wallets. Received interest. savings interest. How much do I need to pay? RM900

### Example of Count Form

Station 4

RM300

GROUP :						
		cou	NT FORM			
	STATION	CALCULATION	CASH IN	CASH OUT	BALANCE	
			RM500			
	STATION I Hari Raya money	RM500 + RM 20 RM520	RM20		RM520	
	STATION 3 Bought 4 books	4 × RM30 = RMI20 RM520 <u>- RMI20</u> RM400		RMI20	RM400	

- Prepare sufficient play money to carry out this activity.
  - Prepare question cards on addition, subtraction, multiplication, and division of money for stations I until 4.

![](_page_28_Picture_20.jpeg)

• Guide pupils to record cash in and cash out.

Examples of Question Card

**Participants** 

3 groups,

5 cashiers

![](_page_29_Picture_0.jpeg)

#### SEKOLAH KEBANGSAAN IDAMAN SCHOOL CAMP

![](_page_29_Picture_2.jpeg)

Time	Activity
8:00 in the morning	Assemble and briefing
8:30 in the morning	Jungle trekking
II:30 in the morning	First-aid activity
1:00 in the afternoon	Lunch and rest
3:15 in the afternoon	Kayaking
9:00 in the evening	Campfire

![](_page_29_Picture_4.jpeg)

![](_page_29_Picture_5.jpeg)

![](_page_29_Picture_6.jpeg)

Let's read out and record each of these activities.

JEACHER'S

NOTES

The kayaking activity begins at 3:15 in the afternoon after lunch and rest.

Guide pupils to read out and record the activities in the pictures.
Ask pupils to state and obtain information on other activities such as schedule of television programmes and school activities.

![](_page_29_Picture_10.jpeg)

![](_page_30_Figure_0.jpeg)

The presentation of awards and certificates starts at morning. Before that, the starts at 8:40 in the morning.

TEACHERS

NONE

in the

![](_page_30_Picture_3.jpeg)

5.1.1 5.1.2

![](_page_31_Picture_0.jpeg)

Look at part of the class timetable and answer the questions below. Write the information in sentence form.

Time Day	7:45-8:15 in the morning	8:15-8:45 in the morning	8:45-9:15 in the morning	9:15-9:45 in the morning	9:45-10:15 in the morning	orning
Monday	Assembly	English	English	Mathematics	Mathematics	the m
Tuesday	Health and Physical Education	Bahasa Melayu	Bahasa Melayu	Science	Science	-10:35 in REC
Wednesday	Mathematics	Mathematics	Arts	Arts	Arts	10:15 <sup>.</sup>

### a Assembly starts at

The Arts class ends at

![](_page_31_Picture_5.jpeg)

• Emphasise to pupils about time before, during, and after an activity.

![](_page_31_Picture_7.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_33_Figure_0.jpeg)

![](_page_34_Figure_0.jpeg)

![](_page_35_Figure_0.jpeg)


 Surf https://www.k5learning.com/worksheets/math/grade-3-converttime-hours-minutes.pdf

NONE

5.2.2









4 Subtract I hour 15 minutes from 6 hours 40 minutes.

6 hours 40 minutes – I hour I5 minutes = hours minutes

6 hours	$\frac{3}{40}$ minutes
– I hour	I 5 minutes
5 hours	25 minutes

6 hours 40 minutes – I hour I5 minutes = **5 hours 25 minutes** 



15 minutes – 10 seconds – 12 minutes 30 seconds

= 2 minutes 20 seconds



Guide pupils to regroup from hours to minutes, and from minutes to seconds.















CREATE STORIES

2 hours 20 minutes + 2 hours 30 minutes = 4 hours 50 minutes

Sali flew on a plane from Kuala Lumpur to Miri for **2 hours 20 minutes**. Then, she rode an express boat for **2 hours 30 minutes** to Marudi town. The total time taken was **4 hours 50 minutes**.









3 The time taken to bake a fruit cake is 48 minutes. How long does it take to bake 4 similar fruit cakes? Give the answer in hours and minutes.



4 × 48 minutes = **3 hours 12 minutes** 

The time taken to bake 4 similar fruit cakes is **3 hours 12 minutes**.

LET'S TRY

Solve the problems.

a Look at the picture. Calculate the difference in time taken by Dashini to read a storybook and watch television. 45 minutes



- b The time taken for a car to travel non-stop from Johor Bahru to Kuala Lumpur is 5 hours 30 minutes. If Mr Tan stops at Pagoh for 20 minutes and at Ayer Keroh for 15 minutes, what is his total travelling time?
- C Haikal plays badminton 6 days a week and the total time is 720 minutes. How many minutes does he play badminton every day?



• Provide more problem solving exercises of various levels of difficulty.





Divide pupils into two groups. Groups take turns to ask and answer questions until the last verse.

5.2.2

## 6 LENGTH, MASS, AND 6 VOLUME OF LIQUID

Come rhyme with me.

Ride along on my scooter My Modenas Elegan I call her From centimetre to metre Divide one hundred for the answer.

Text a wish in telegram Happy Mother's Day, mother From kilogram to gram Multiply one thousand for the answer.

Every pupil must remember The largest planet is Jupiter From litre to millilitre Multiply one thousand for the answer.







- Guide pupils through the rhyme above.
  - Instil values such as appreciating mother's deeds and love our country.
- Introduce other measuring tools.





Surf https://www.homeschoolmath.net/worksheets/measurements/PDFs/





Find the distance from the horse stable to the giraffe enclosure pass the zebra enclosure.















The overall length of the coaches of a train is 14 m. Find the length of one coach.
























Calculate the mass of a packet of green peas.



The mass of a packet of green peas is **3 kg**.



• Discuss nett mass, which means the mass of an item without the mass of its container.





















NOTES





 $7 \ell 500 \text{ m}\ell \div 5 = 1 \ell 500 \text{ m}\ell$ 

MIND HALLENGE A watermelon with a mass of 4 kg has an estimated 3 600 mℓ volume of water. What is the estimated volume of water in a watermelon with a mass of 1 kg?









15 m + 28 m = **43 m** 

Aishah bought **15 m** of white cloth and **28 m** of printed cloth to make curtains. The total length of cloth is **43 m**.



### 3 × 250 g = **750 g**

Mother uses **3** blocks of butter to make biscuits. The mass of a block of butter is **250 g**. The total mass of the butter used is \_\_\_\_\_.

3 ( 200 m/

l ℓ 200 mℓ ÷ 4 = **300 mℓ** 

The volume of sugarcane juice in a jug is  $\ell m\ell$ . The sugarcane juice is poured equally into glasses. Each glass is filled with m $\ell$  of sugarcane juice.

Create stories.

a) 2 m 70 cm – 1 m 65 cm = 1 m 5 cm

**b**  $8 \times 625 \text{ m}\ell = 5\,000 \text{ m}\ell$ 

**d**  $|3 \ell 500 \text{ m}\ell \div 9 = |\ell 500 \text{ m}\ell$ 





 Guide pupils to create stories based on the number sentences using daily situations.

6.4.1

Carry out a story creating competition. Interesting stories with appropriate pictures will be presented to the class.



TEXCILES

• Guide pupils to solve problems by drawing diagrams.







Solve the problems.

- i. Calculate the total mass of the pineapple and jackfruit.
  - ii. How much more is the mass of the jackfruit than pineapple?

Fruit	Mass		
Pineapple	983 g		
Jackfruit	4 kg 450 g		

**b** Lina made 2  $\ell$  520 m $\ell$  of cocoa drink. She poured the drink equally into 8 cups. Calculate the volume, in m $\ell$ , of the cocoa drink in each cup.



The length of this green hose is 4 times the length of the yellow hose.



i. State the length of the yellow hose in cm.

hard a faith that

PROJECT

ii. What is the length, in m and cm, of the green hose?



pictures from sales brochures and the Internet, glue, coloured paper, pen, scissors



3 pupils per group

#### Method

- Paste pictures related to length, mass, and volume of liquids.
- 2 Create questions involving addition, subtraction, multiplication, and division.
- 3 Decorate the scrapbook.
- 4 Present your group's work.



Provide exercises in worksheets and question cards.
Guide pupils to form questions from pictures chosen in the Fun Project.





Let's sing together. Find the answers.









AB TEACHER'S 131 DOTES

 Carry out activities of cutting objects like cuboid-shaped cakes, polystyrene in the shape of triangular prisms, and cube-shaped sponges to look at two opposite surfaces of equal shape (cross-section).





Build a mind map or chart as given below:



a below.

EACHER'S NOTES

• Prepare suitable mind maps and pictures of prisms and non-prisms. Ask pupils to paste prism and non-prism shapes on the mind map.

7.2.1











of the same

shape and size.

Look at the picture. Is the blue line an axis of symmetry?





- Emphasise that the axis of symmetry occurs with three-dimensional and two-dimensional shapes. Discuss the axes of symmetry of heptagon and octagon.
- Carry out activities to explore the axis of symmetry using various shapes inside and outside the classroom.







Method

paper shirt, pen, ruler





Axis of symmetry

Fold the paper shirt until one part overlaps exactly on the other part.



Unfold the paper shirt. Draw a line along the fold.

3 Label the axis of symmetry.



• Modify and use various materials or objects to find axes of symmetry.

SOLVE THE PROBLEMS

Puan Salina sticks three pictures on the whiteboard. She asks Azian to choose a picture of a prism. Which picture is chosen by Azian? Why?



**Given** pictures of a cone, cuboid, and sphere

**Find** picture of a prism

Method make a checklist table

Characteristics of prism Shape	5 or more flat surfaces	2 opposite surfaces of the same shape (base)	no curved surfaces
Cone	×	X	×
Cuboid		$\checkmark$	1
Sphere	×	×	×

A cuboid is a rectangular prism.

Azian chooses because it has 6 flat surfaces, its opposite surfaces are of the same shape, and it has no curved surfaces.

2 Wong cuts a shape. It has 2 corners more than a pentagon. What is the shape?





Zaki takes the picture card of a handkerchief.



Solve the problem. Jaslina has three flash cards. She chooses a regular polygon card. Which card has she chosen? Give your reasons.





- Encourage pupils to explore other ways to determine axis of symmetry such as folding picture cards.
- such as folding picture cards. Emphasise that there are shapes that have more than one axis of symmetry.







# RECOGNISE LOCATION

The picture shows 4 family members planting paddy seedlings. Their paddy field has 4 columns and 3 rows.



## 2 The location of pupils during a test.



## 3 Picture of location of games in a funfair.



- **a** What game is in the same column as the haunted house? The **train** is in the same column as the **haunted house**.
- **b** What game is at row 4? **Spinning cups** and **bumper car** are at row 4.
- C Complete the table of location of games below.

Location	E2	Α4	C3	BI
Game	big wheel	spinning cups		







State Flags						
5		C¥			*	
5		Johor		Sabah	Kelantan	
4		Ø	*		(*	
		Kedah	Pulau Pinang		Terengganu	
3				(*		
	Perlis	_		Selangor	Negeri Sembilan	
2		<b>4</b>	(*			
Z		Wilayah Persekutuan	Melaka	-		
I						
	Sarawak			Pahang	Perak	
_	А	В	С	D	E	

Complete the following.

- a The Kedah state flag is 2 squares to the \_\_\_\_\_ and \_\_\_\_\_ squares to the top.
- b The Perlis state flag is at column 🦲
- c The Melaka state flag is at row
- d The \_\_\_\_\_ state flag is at AI.
- The flag, the state that is also known as the Land Below the Wind is at D5.

KPM TELETIERS

• Provide a variety of exercises to identify the location of objects in everyday life such as the location of decorative items on racks.







• Discuss traditional games.



Liew wants to read a storybook. He has weak eyesight. What is the location of the object that he needs?





Look at the location of animal enclosures in a zoo. State the location of enclosure of:



• Guide pupils to label horizontal and vertical axis on the chessboard. Ask pupils to state the locations of the King, Castle, Queen, Knight, Pawn, and Bishop.

8.1.3



Î

The picture shows the locations of a flower garden, Petrosains, museum, bird park, and theme park. Encik Karim took his family to A3 during the school holidays. Where did they go?



- **Given** the picture of the place at A3
- Find name of the place
- Method Look at column A, row 3. The place at A3 is Petrosains.

#### They went to Petrosains.



- Using the situation above, ask pupils orally about the location of other places of interest to visit.
- Ask pupils to talk about the benefits of visiting the places above.


# A picture of the location of four types of clothing.



Rekha is taking part in a telematch. What type of clothing is suitable? State the location.

**Given** taking part in a telematch

**Find** most suitable type of clothing and their location

Method Make a table.

Clothing	dress	pyjamas	sportswear	school uniform
Suitable	X	×	$\checkmark$	X
Location	A2	B4	C3	D2

The most suitable type of clothing is sportswear. Their location is at **C3**.



2



Solve the problem below.



Swee Lin and her mother are taking a bus from Johor Bahru to Penang. The bus stops for a break at C2. After three hours, the bus stops at Taiping. State:

- the location of the bus terminal in Johor Bahru.
- the location of the bus terminal in Penang.
- **C** the rest area at C2.
- **d** the location of the rest area in Taiping.



- Provide various problem-solving questions like the location of other states on the grid.
  - Use maps of Sabah and Sarawak to name the location of tourist spots.





### Method

AB 45-146 TEACHER'S LIDITES

- Determine the referee and the players' turns.
- 2 Each player takes turns to toss the dough three times onto the play grid.
- 3 Write the location of the dough on the picture.
- 4 Record your marks based on the score table.

Player	First		Seco	nd	Third	
	Dough	Marks	Dough	Marks	Dough	Marks
Toss	location		location		location	
I						
2						
3						
Total						

#### 5 The player with the highest marks wins.

• Modify the game to suit the school situation. For example, use tiles, mahjong papers, and other suitable materials.

Instil values of cooperation and tolerance.



Anuar collects data on colours of cars that pass by in front of his house.

I collect data on colours of cars. There are four colours.

white, red, blue, white, red, red, black, white, red, blue, white, black, red, white, white, white, red, black, black, red, red, white, black, black, blue, white, white, white, red

9 DATA



• Guide pupils to collect, classify, and sort data. Ask pupils to draw tables to sort the collected data.



2		Let's clas and sort data.	rsify this	white, black, red, w black, blue, v	Data o red, blue, white, red hite, white red, red, white white, whi	f colours of white, red d, blue, whi e, white, red white, black te, white, w Method 2	cars , red, te, black, d, black, k, black, rhite, red	
	Colour of car	Tally	Number		Colour of car	Tick	Number	
	White	###### 	12		White	<i>JJJJJJ</i> <i>JJJJJJ</i>	12	
	Red	J##1111	q		Red	<i>JJJJJ</i> <i>JJJJ</i>	9	
	Blue		3		Blue	<i> </i>	3	
	Black	JHTT	6		Black	<i>」</i> 」 <i>」</i> 」 <i>」</i> 」	6	
			Whi	ich me	thod is ec	isier?		

The data shows the favourite juice of a group of pupils. Classify and sort the data in a table. Make a tally.

ET'S





The data below is displayed in a circle. This is known as **pie chart**.



**c** The birth month of the largest number of pupils is **c**.



8

• Carry out question and answer activities to obtain information from pie charts.

June

August





NOTES 110 KPM

- and pie charts.
- Discuss the difference in ways of representing data between the three charts.





TEACHERS

NOTES

Look at the data of fruits sold by Young Entrepreneurs Club. Complete the sentences below.



• Provide various questions to show the connection between pictographs, bar charts, and pie charts to reinforce pupils' understanding.

9.3.1



3 The pictograph, bar chart, and pie chart below show the number of doughnuts eaten by 10 children.



Method Look at the following.



The type of doughnut eaten the most is **chocolate**.



• Provide various types of questions involving the relationship between pictographs, bar charts, and pie charts to reinforce pupils' understanding.





Solve the following problems.

- a The data shows the favourite ice cream flavours of 16 children. Which ice cream flavour is the most favoured?
- b The pie chart shows the colours of balloons in a birthday party. Which colour is the least?



Red

C Look at the pictograph, bar chart, and pie chart.





## State the most favoured game.



 Provide more exercises suited to pupils' ability using worksheets or question cards.





#### Method

- Each group takes a pie chart card and a data card.
- 2 Create one item or data and fill in the table.
- 3 Write down the data in the pie chart.
- 4 Write down three information found in the pie chart.
- 5 In groups, discuss to obtain additional information.



- Prepare sufficient numbers of suitable pie chart cards and data cards.
- Guide pupils to carry out the activity above.
- Suggest data such as number of storybooks read and favourite fruit.



Dengan ini, **SAYA BERJANJI** akan menjaga buku ini dengan baiknya dan bertanggungjawab atas kehilangannya, serta mengembalikannya kepada pihak sekolah pada tarikh yang ditetapkan.

Skim Pinjaman Buku Teks Sekolah							
Noi	mbor Peroleh	an:					
Tar	ikh Penerima	an:					
	BUKU	I INI TIDAK BOLEH DIJUAL					