

# MATHEMATICS YEAR 4



#### STANDARD-BASED CURRICULUM FOR PRIMARY SCHOOL (REVISED 2017) DUAL LANGUAGE PROGRAMME



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# KPM



The publication of the Standard-Based Curriculum for Primary School (Revised 2017) textbook has reached the second level with the publication of the *Mathematics Year 4* Textbook. The writing of this textbook is based on the National Philosophy of Education, National Education Policy, and the Malaysia Education Blueprint (PPPM) 2013-2015. It is hoped that the emphasis on inquiry-discovery and project-based learning supported by continuous assessment methods, as well as the integration of the six KSSR fundamental strands would produce a balanced and harmonious human capital in terms of spiritual, emotional, and physical well-being. In addition, the integration of the social culture of Malaysian society is also emphasised in its content as well as the Cross Curricular Elements (CCE), Information and Communication Technology, Entrepreneurship, and the 21<sup>st</sup> Century Learning, as we are heading towards world class education which is on par with international standards.

The *Mathematics Year* 4 Textbook contains eight topics designed to meet the requirements of the *Dokumen Standard Kurikulum dan Pentaksiran* (DSKP) published by the Curriculum Development Division, Ministry of Education Malaysia. This textbook emphasises the concepts and skills in the Learning Standards that prioritise pupils' involvement in learning. The reasoning questions in the learning activities are expected to generate pupils' ideas and encourage a two-way communication between pupils and teachers, and also among peers. The Higher Order Thinking Skills (HOTS) questions on the other hand aims to produce intelligent and thinking pupils who can compete at the international level. The function of this book is optimised by providing tips, relevant facts, and a variety of activities which include hands-on, songs, projects, and games. The content of this book is also supplemented with formative and summative exercises to enable teachers to identify pupils' level of understanding, in order to implement subsequent learning to reinforce pupils' knowledge. The review assessments are provided to assess pupils' mastery of several topics.

Teacher's Notes help teachers to carry out teaching and facilitation activities effectively. Suggestions of websites are provided for pupils to explore the knowledge learned and to carry out additional exercises. The content of this textbook is presented to be user-friendly with integration of elements that are of interest to pupils. It is also designed to foster national integration, patriotism, and culture through the use of names, characters, and graphic materials.

A description of the use of this textbook on the next page is expected to help users to understand the writing and the function of the icons used in this book.

TOPIC Topic based on learning area.

#### SUBTOPIC

The learning standard that should be mastered.

#### **TEACHER'S NOTES**

Emphasise on the learning activities and suggest alternative activities as well as websites for learning activities and additional practice.





**TEST YOURSELF** Formative exercises to assess pupils' mastery of newly learned skills.



#### FUN EXPLORATION-

Activities to enhance skills learned in the form of hands-on, projects, and fun learning.

### FACTS AT A GLANCE

Additional information for pupils' knowledge.

#### MIND TEASER

HOTS questions for challenging intellectual skills and encouraging critical and creative thinking.

#### MIND RIDDLE

Mathematical recreational activities in the form of games and projects with a number of skills.

#### MIND CHALLENGE

Summative exercises to evaluate and reinforce pupils'understanding of all the skills learned in each topic.



MIND TWISTER

Review exercises to enhance pupils'understanding,

GLOSSARY List of mathematical terms and their meanings.



#### MASCOT

Presents questions and statements to encourage pupils to use the skill of reasoning.

#### CONTENT STANDARD AND LEARNING STANDARD NUMBER Skill indicators that should be

mastered in accordance with DSKP.



QR CODE Access learning activities from the QR Code.







# RECOGNISE AND WRITE NUMBERS

Pupils' scores in Kahoot quiz.



• Carry out group activities on saying numbers randomly using number cards.

Surf http://create.kahoot.it/login to create quizzes for enrichment activities.

(i), (ii)





Use flash cards for writing numbers in numerals and words activity.
Carry out activities on saying numbers using counters and Dienes blocks, and also matching number cards to word cards.









arranging the digit values from the largest to the smallest.

1.1.2 (i), (ii) 5 KPM



The digit value of 2 of 20 000 is lesser than the digit value of 6 of 60 000. The digit value of 6 of 60 000 is lesser than the digit value of 7 of 70 000.

### Ascending order | 105, 24 712, 69 711, 75 141

• Emphasise that number values become larger in ascending order and become smaller in descending order.

1.1.2

(iii), (iv

Carry out group activities to find suitable data from the web. For example, number of tourists. Continue with activities to arrange number cards in ascending and descending orders in the fastest time.

2 The table shows the number of children interested in traditional games in a district.





(iii), (iv)



3) The four number cards below are arranged in ascending order.



(v)



Discuss even and odd numbers based on a set of numbers and any times table.
Relate even and odd numbers to daily life situations such as birth dates, the last four numbers in MyKid, and house numbers at pupils' places of residence.











cards in ascending and descending orders.
Encourage pupils to explore various number patterns using calculators.

TEACHE

1.5.1





• Emphasise that estimation of quantities is very important in daily life such as estimating the amount of ingredients before cooking and estimating expenses before spending.

1.3.1





12 295 is between 12 000 and 13 000.

12 295 is nearer to 12 000.

12 295 becomes 12 000 when rounded off to the nearest thousand.

Round off 38 704 to the nearest ten thousand.











Rashid, please help me find the total number		
of skateboards and hoverboards sold.		Numbercold
THE REAL	Item	in a year
Yes, madam.	Hoverboard	7 237
	Mini car	653
CONCETTINE	Scooter	9 084
CHOLETIERE	Skateboard	18 045

a What is the total number of skateboards and hoverboards sold?

18 045 + 7 237 =



18 045 + 7 237 = **25 282** 

The total number of skateboards and hoverboards sold is 25 282.





Method 2

18045

27782

9084

653







653 + 9 084 + 18 045 = **27 782** 

653 + 9 084 + 18 045 =

Method I

+9084

9737

653

The total number of mini cars, scooters, and skateboards is **27 782**.

9737

+ 18045

27782

2 Add 17 806, 4 029, 59 164 and 3 860.

17 806 + 4 029 + 59 164 + 3 860 =



3) The table shows students' enrolment in universities for the year 2017.

University	Male student	Female student
UM	10 569	17 391
UKM	374	19 500
USM	11 080	18 093
UPSI	7 020	16 679

Source: https://www.moe.gov.my/muat-turun/laporan-dan-statistik/pendidikan-tinggi/ buku-perangkaan/2017-5/2393-statistik-pendidikan-tinggi-2017-bab-2-pdf/file

Add up the enrolment of male students in the table above.





• Use the source quoted above to vary questions of different levels on addition of up to four numbers, based on the data of the area of other states in Malaysia.

• Surf https://www.ixl.com/math/grade-4/addition-fill-in-the-missing-digits



BTRACTION

Number of UPSR candidates in Kedah for the year 2018						
Type of school	Sekolah Kebangsaan (SK)	Sekolah Jenis Kebangsaan Cina (SJKC)	Sekolah Jenis Kebangsaan Tamil (SJKT)	Private School		
Number of candidates26 467		3 429	I 295	7		

 Calculate the difference between the number of candidates in SK and SJKT.

26 467 – 1 295 =

Subtract according to place value. Start from ones.

	ten thousands	thousands	hundreds	tens	ones	4 hundreds – I hundreds
P	2	6 I	3 4 2	16 K 9	7 5	= 3 hundreds I hundreds + 6 tens = 10 tens + 6 tens
7	2	5	I	7	2	= 16 tens

26 467 – | 295 = **25 172** 

The difference between the number of candidates in SK and SJKT is **25 172**.

**b** How much less is the number of candidates in private school compared to SK ?





 Guide pupils to carry out subtractions using suitable materials to represent ten thousands, thousands, hundreds, tens, and ones.
 Surf https://www.ixl.com/math/grade-5/add-and-subtract-whole-numbers-up-

to-billions

1.6.2



60 000 - 7 085 = **52 915** 

5 Subtract 739 and 4 027 from 58 669.

 $58\ 669 - 739 - 4\ 027 =$   $58\ 669 - 739 - 4\ 027 =$   $58\ 669 - 739 - 4\ 027 =$   $57\ 930 - 4\ 027 =$   $53\ 903 =$   $7\ 16 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$   $7\ 39 - 4\ 027 =$ 

58 669 – 739 – 4 027 = **53 903** 

 Emphasise that in repeated subtraction, subtract the first two numbers before subtracting the next.



• Explain the solution used by the mascot.







How many packs of tissue are left?

24 336 + | 560 - 4 |20 =



28 KPM  Provide several daily life examples on mixed operations of addition and subtraction for pupils to solve.
 Example: number of train passengers embarked and disembarked.

1.7.1






There are 680 melons altogether in 20 similar baskets.

 Encourage pupils to write multiplication number sentences based on picture cards such as biscuit jars and egg trays.

• When any number is multiplied by the multiples of 10 which is less than 100, multiply the number with the tens digit of the multiple and put 0 at ones.







4 × 10 395 = **41 580** 

• Carry out a group activity to complete and present the Bridge Map in example 4 above.

1.6.4

- Use the melody of Aku Negaraku for the Fun Exploration activity.
- Remind pupils to regroup correctly.



6) What is the product of 49 and 76?









КРМ

### MULTIPLICATION WHEEL

Materials

Two number wheels and turn-taking table.

Participants 6 pupils.

How to play

- 📗 Turn both wheels simultaneously.
- Find the product of the two numbers shown by the arrows.
  For example, 29 and 1 000 becomes 29 × 1 000 = 29 000.
- 3 Referee checks the answer using a calculator. If it is correct, the referee marks a (✓) in the player's column.
- 4 Repeat step I to step 3 for 5 rounds.









If there are 10 different flavours of curd of equal numbers, how many containers are there for each flavour?



 $12 400 \div 10 = 1240$ Each flavour has 1 240 containers.

1.6.5



Provide a cross-number puzzle involving division of 10, 100 and 1 000.
Discuss how to shift decimal points as a strategy in dividing by 10, 100 and 1 000.



Relate the division of any number by 10, 100 and 1 000 involving unknowns with multiplication and encourage pupils to use the elimination method to calculate.
Emphasise that a pattern is formed when the same number is divided by 10, 100 and 1 000.

1.6.5



How many boxes of rice noodles are distributed to each supermarket?

30 546 ÷ 6 =

ten 🖌	thousands	hundreds 🧖	tens 🗸	ones
0	05	050	0509	05091
6)30546	6 30 546	6)30546	6)30546	6)30546
$\frac{-0}{3}$	$-\frac{0}{30}$	$\begin{array}{c} -0\\ \hline 3 \\ 0 \end{array}$	$\frac{-0}{30}$	$\frac{-0}{30}$
<b>6</b>	$\frac{-30}{0}$	$\frac{-30}{05}$	$\frac{-30}{05}$	-30 05
	pis -	$\frac{-0}{5}$	-0	$-0 \downarrow$ 54
	Start dividing from ten thousands.		$\frac{-54}{0}$	$\frac{-54}{06}$
		)		0

30 546 ÷ 6 = **5 09** 

**5 091** boxes of rice noodles are distributed to each supermarket.

• Emphasise memorisation of the times tables for an easier division process.





How many *ciku* are put in each container?



above, what is 175 divided by 25?



• Emphasise that division is repeated subtraction.

KPM

• Guide pupils to divide numbers without remainder through simulation using concrete objects and times tables.











Each plate has 12 pieces of cheese tarts.

2 Multiply 630 by 15. Divide the product by 30.



3 21 × 3 059 ÷ 7 =	
Method I	a   77
3 0 5 9	7)64239
<u>× 21</u>	$\frac{-63}{12}$
3059	- 7
<u>+6  80</u>	53
64239	<u>- 49</u>
	49
	<u> </u>
	0







How many pairs of shoes are distributed to Din's Shoe Shop?

14 100 ÷ 50 × 3 = **846** 

846 pairs of shoes are distributed to Din's Shoe Shop.







Test Yourself.





The table shows the number of visitors to three tourist attractions.





1.9.1

Total up the largest number of visitors and the number of visitors to the butterfly park. Round off to the nearest thousand.



The total of the largest number of visitors and the number of visitors to the butterfly park is 61 125. 61 125 to the nearest thousand is **61 000**.



- Explain and emphasise the steps of problem-solving. Train pupils to underline important information.
- Provide more problem solving questions on addition, subtraction, multiplication, and division involving rounding off numbers.



The fifth number in the number pattern is 1 488.



Find the difference between the largest even number and the smallest odd number from the number cards above.

TEACHER'S TEACHER'S Carry out group activities to form six even numbers and odd numbers based on the number pattern given to the pupils.



3

The following table shows the number of cars on the roads in Perlis for the years 2013, 2014 and 2015.

Year	2013	2014	2015	
Number of cars	71 505	3 075 more than in 2013	2 925 more than in 2014	

Source: http://www.data.gov.my/data/ms\_MY/dataset/bilangan-kenderaan-di-atas-jalan-rayamengikut-negeri/resource/f0dffdea-354b-416a-90b2-b6ca471e603c

How many cars are there on the roads in Perlis for the year 2015?

#### •Understand the problem •

There are 71 505 cars in 2013.

In 2014, there are 3 075 cars more than the number of cars in 2013. In 2015, there are 2 925 cars more than the number of cars in 2014.

Find the number of cars in 2015.



7I 505 + 3 075 + 2 925 = **77 505** 

### There are **77 505** cars on the roads in Perlis for the year 2015.



1.9.1

During the environmental conservation campaign, a total of 27 600 mangrove tree seedlings were planted in districts R, S and T. Districts R and S were planted with I7 930 and 8 752 mangrove tree seedlings respectively. How many mangrove tree seedlings were planted in district T?



27 600 mangrove tree seedlings were planted in three districts. District R was planted with 17 930 mangrove tree seedlings. District S was planted with 8 752 mangrove tree seedlings. Find the number of mangrove tree seedlings in district T.



The number of mangrove tree seedlings planted in district T is 918.

# Now, explain how to check using estimation.





Ask pupils to explain the steps taken in 1 to 4 above.
Instil moral values of loving the environment Explain

• Instil moral values of loving the environment. Explain the importance of growing mangrove trees in preserving the ecosystem.

5 The employees of Aina's mother prepared 10 500 packets of mango sticky rice for a food fair. 9 420 packets were sold. Then, 780 packets more were prepared. How many packets of mango sticky rice are there now? Write important information. prepared 10 500 packets of mango sticky rice sold 9 420 packets of mango sticky rice • then made 780 packets more calculate the current number of packets of mango sticky rice 10 500 780 Draw a diagram. 9 420 ? 780 Write the number sentence. 10 500 - 9 420 + 780 = Solve . 010 410 080 XØ 5Ø0 780 9 420 860 080 Check • 10 0 Ø 12 10 500 XX 280 9 4 2 0 780 1 2 8 0 860 10500 - 9420 + 780 = 1860Now, there are I 860 packets of mango sticky rice.



Encourage pupils to do mental calculations while solving addition and subtraction, and check the answers.
Surf https://ca.ixl.com/math/grade-5/multi-step-word-problems



6 13 schools sent 24 participants each for several sports events. Find the total number of participants involved.

Write important information.

I3 schools

,,,,,,,,,,,,,

\*\*\*\*

• each school had 24 participants

\*\*\*\*\*

• find the total number of participants

......



The total number of participants involved is **312**.



If there are 100 sports events and each event is participated by 125 participants, calculate the total number of the participants.

• In pairs, conduct quizzes to construct number sentences based on the given problems before solving it.

 Surf https://ca.ixl.com/math/grade-5/multiply-by-2-digit-numbers-wordproblems



11111111



The table shows number of *songket* shoes and batik canvas shoes sold during the Malaysian Batik Festival.

Shoe type	Songket	Batik canvas
Total (pairs)	1 060	15 times the number of <i>songket</i> shoes



1.9.1

How many batik canvas shoes are sold?



Write a number sentence to find the total number of *songket* and batik canvas shoes.







A poultry farm worker puts 84 cages of chickens into a lorry. Each cage has 8 chickens. The cages are distributed equally to 7 markets. How many chickens are sent to each market?



1.9.1

84 cages. Each cage has 8 chickens. Distribute equally to 7 markets.

Find

Given

**q** 

Total number of chickens that are sent to each market.



96 chickens are sent to each market.

If the cl

If the chickens are sent to 14 markets, how many chickens does each market receive?

10 3 machines are used to print 7 350 pamphlets. Each machine can print an equal number of pamphlets. How many pamphlets can 10 similar machines print?





H

KPM

The following are items ordered by a school cooperative in conjunction with the *merdeka* month.

Bad 715 The total num Jalur Gemilar	ge Jalur of items orde ordered?	Gemilang ? red is 21 680. Wha	Magnet 4 030 t is the number of
infor	Arrange the	Ttom	Number of items
		Radao	
		Buuge	/15
rey por		Jaiur Gemilang	4.020
		Magnei	4 030
		Iofdi	21 680
Use sr solve	numbers with nall value to e an unknown.	715 + 403 $+ 4 + 3 = 8$ $4 + 4 = 8$ $4 = 8 - 4$ $7 + 5$ $+ 4 + 0 = 8$ $4 = 8 - 4$ $7 + 5$ $+ 4 + 0 = 8$ $4 = 8 - 4$	$ \begin{array}{r} 10\\ 10 \\ 10 \\ 10 \\ 21 \\ 680 \\ - 4745 \\ 16935 \\ \hline 17650 \\ + 4030 \\ 21680 \\ \end{array} $
	715 + <b>16 93</b>	<b>35</b> + 4 030 = 21 68	30
The nu	mber of Jalur Ger	milang ordered is	<mark>16935.</mark>

 Provide questions on several daily life situations involving unknowns and ask pupils to solve them in pairs.

1.9.2





Sugang chooses one of the cards below.

 62 481
 78 016
 65 703
 77 245

The number on the chosen card becomes 70 000 when rounded off to the nearest ten thousand. Which card is chosen by Sugang?

2



- 3 I 375 pieces of vouchers were distributed to every school. Calculate the number of vouchers distributed to 25 schools.
  - Read the dialogue below.

The picture shows electricity metre readings for a factory

in April and May. Calculate

the difference between the

two readings.

Punitha

My sister has 14 801 social media friends.

My brother has 2 928 more friends than your sister.



How many social media friends does Liman's brother have?

- 5 A health product company sold 34 780 products in January, February, and March. The number of products sold in January and February are 15 432 and 8 095 respectively. Find the number of products sold in March.
- An employee of Nadia's father grills 69 840 sticks of frozen satay. 40 sticks of satay are put into each container. How many containers of satay are there?





Provide more exercises on questions of different levels of difficulty in the form of quizzes or worksheets to be solved in groups or in pairs.
Encourage pupils to check their answers using calculators.





- IN conjunction with the Go Green Campaign, about 20 000 trees were planted in several recreational parks. The number of trees planted was rounded off to the nearest ten thousand. Give three possible values for the number of trees planted.
- 👖 Siti buys 12 purple orchids and **y** white orchids. The total number of purple and white orchids is 36. What is the value of y?
- 2 A block of flats has a total of 90 units of houses. *p* units of houses are occupied while 15 units are unoccupied. Find the value of *p*.

A seller prepares 2 600 pieces of chocolate

8 Anis buys 7 boxes of dates for a breaking of fast event. Each box has 35 dates. Anis's mother

each. Find the number of plastic bags of dates.

repackages them into several plastic bags of 5 dates

waffles. 900 pieces are donated to an orphanage. Then, the seller prepares 1 480 pieces of peanut waffles. He sends all the waffles to several child care centres. Calculate the number of waffles that are sent

to the child care centres.

13 The table shows the number of ducks in four cages. The total number of ducks in cages R and S is equal to the total number of ducks in cages T and U. Find the value of k.

Cage	R	S	Τ	u
Number of ducks	14	15	17	k









## How to play

- I Players take turns to choose a coloured marker and a question card.
- 2 Write all calculations and answers on a paper.
- 3 The referee checks each answer. If the answer is correct, the player puts a marker on the question number grid. If the answer is incorrect, the player returns the question card to its original place.
- 4 Continue playing until all question cards are answered correctly.
- 5 The player with the most markers wins.
  - Decide the turns by tossing a dice. Make sure every question card is labelled with numbers 1 to 16.
    - Include higher level questions if pupils have acquired all skills in the question cards given.

1.1 - 1.9






## The table shows rubber production in April 2015, March 2016, (d) and April 2016.

Year	April 2015	March 2016	April 2016
Production	Production 21 847 less		15 911 less
(metric	than in		than in
tonnes)	March 2016		March 2016

Source: https://www.dosm.gov.my/vl/uploads/files/I\_Articles\_By\_Themes/ Agriculture/PERANGKAAN GETAH APRIL 2016.pdf

How many metric tonnes of rubber is produced in April 2015?

Calculate the total number of metric tonnes of rubber produced in March and April 2016.

e Each container has 12 jelly moulds. Jenny has 14 containers. She uses all the moulds to make jelly.



How many jellies does she make?

Jenny serves 4 jellies on each plate to be given to her neighbours. How many plates does she need?

(f) The table shows the number of participants of Penang Public Library Reading Campaign.

Month	June	July
Number of participants	10 314	971 less than the month of June

Source: http://www.data.gov.my/data/ms\_MY/dataset/aktiviti-galakan-membacaperpustakaan-awam-pulau-pinang/resource/38645e50-f8c0-4bd5-b012-73719839fef4

Calculate the number of participants in June and July.

**(g**)

City	R	S	Т
Number of	?	Twice the number	Triple the number
foreign workers		of foreign workers in R	of foreign workers in R

The total number of foreign workers in cities R, S and T is 15 702. Calculate the number of foreign workers in City R.

How many foreign workers are there in City T?

Kaswini buys **h** pieces of envelopes. She uses 13 pieces of the h envelopes. There are 12 pieces left. What is the value of *h*?







## CONVERT IMPROPER FRACTIONS AND MIXED NUMBERS















(3) 
$$2\frac{1}{4} + 3 + \frac{3}{4} = 1$$
  
(Method 12)  
 $2\frac{1}{4} + 3 + \frac{3}{4} = 2\frac{1}{6} + \frac{3}{4} + 3$   
 $= 2\frac{1}{6} + 3$   
 $= 3 + 3$   
 $= 6$   
 $2\frac{1}{4} + 3 + \frac{3}{4} = 2 + 3 + \frac{1}{4} + \frac{3}{4}$   
 $= 5 + \frac{1}{4}$   
 $= 5 + \frac{1}{4}$   
 $= 5 + 1$   
 $= 6$   
(4)  $2\frac{1}{10} + 4\frac{9}{10} + \frac{1}{10} = 1$   
 $2\frac{1}{10} + 4\frac{9}{10} + \frac{1}{10} = \frac{9}{10}$   
 $2\frac{1}{10} + \frac{9}{10} + \frac{9}{10} + \frac{9}{10} = \frac{9}{10}$   
 $2\frac{1}{10} + \frac{9}{10} + \frac{9}{1$ 

Provide more exercises on the addition of fractions involving mixed numbers, proper fractions, and whole numbers to enhance pupils' understanding.

KPM



Make sure the answer is in the simplest form.





2 Find the remainder when  $\frac{2}{7}$  is subtracted from I.







2.1.3 (i



• In pairs, carry out an activity on subtraction of two fractions. Each pair is asked to calculate using Method I or Method 2. Compare their answers by using pair and check.

• Carry out simulation activities to explain the concept of subtracting a fraction from a whole number as shown in example 3.

$$(4) \ 6\frac{4}{q} - \frac{2}{q} - 2\frac{7}{q} =$$



Method 2  

$$6\frac{4}{q} - \frac{2}{q} - 2\frac{7}{q} = 6\frac{4-2}{q} - 2\frac{7}{q}$$

$$= 6\frac{2}{q} - 2\frac{7}{q}$$

$$= 5\frac{q}{q} + \frac{2}{q} - 2\frac{7}{q}$$

$$= 5\frac{11}{q} - 2\frac{7}{q}$$

$$= 3\frac{4}{q}$$

$$6\frac{4}{q} - \frac{2}{q} - 2\frac{7}{q} = 3\frac{4}{q}$$



 Scan the QR Code to obtain additional explanations on the subtraction of fractions involving unknowns.

2.1.3 (i), (ii) • Train pupils to use times tables to get the smallest common denominator which is also known as the Least Common Multiple (LCM).

KPM

$$\sqrt{7}$$
  $4\frac{7}{8} - \frac{1}{2} - 2\frac{2}{3} =$ 

Method

Method 2

$$4\frac{7}{8} - \frac{1}{2} - 2\frac{2}{3} = 4\frac{7 \times 3}{8 \times 3} - \frac{1 \times 12}{2 \times 12} - 2\frac{2 \times 8}{3 \times 8}$$
$$= 4\frac{21}{24} - \frac{12}{24} - 2\frac{16}{24}$$
$$= 2\frac{5}{24} - \frac{12}{24}$$
$$= 1\frac{24 + 5}{24} - \frac{12}{24}$$
$$= 1\frac{29}{24} - \frac{12}{24}$$
$$= 1\frac{29}{24} - \frac{12}{24}$$
$$= 1\frac{17}{24}$$

2,	3 anc	8 8		
times tables				
2	3	8		
4	6	16		
6	q	24		
8	12	32		
10	15	40		
12	18	48		
14	21	56		
16	24	64		
18	27	72		
20	30	80		
22	33	88		
24	36	96		

 $4\frac{7}{8} - \frac{1}{2} - 2\frac{2}{3} = \frac{39}{8} - \frac{1}{2} - \frac{8}{3}$   $= \frac{39 \times 3}{8 \times 3} - \frac{1 \times 12}{2 \times 12} - \frac{8 \times 8}{3 \times 8}$   $= \frac{117 - 12 - 64}{24}$   $= \frac{41}{24} \qquad 24 \quad 1$   $= \frac{41}{24} \qquad 24 \quad 1$   $= 1\frac{17}{24} \qquad 1$   $5 \text{tep I} \quad 4\frac{7}{8} - \frac{1}{2} = \frac{127}{3}$   $4\frac{7}{8} - \frac{1}{2} - 2\frac{2}{3} = 1\frac{17}{24}$ Discuss if the question

Discuss if the question above is solved using this method.

2.1.3 (ii)



 Ask pupils to solve other questions using the two methods above and present their work.

 Surf https://www.calculatorsoup.com/calculators/math/adding-fractionscalculator.php





5/word-problems/fractions-mixed-operations to obtain additional questions.

**KPM** 



2 
$$2\frac{1}{7} + \frac{5}{7} - 2 =$$



Method 2  

$$2\frac{1}{7} + \frac{5}{7} - 2 = 2 - 2 + \frac{1}{7} + \frac{5}{7}$$
  
 $= \frac{6}{7}$ 

$$3 \quad \frac{3}{10} - \frac{1}{5} + \frac{1}{2} =$$

$$\frac{3}{10} - \frac{1}{5} + \frac{1}{2} = \frac{3}{10} - \frac{1 \times 2}{5 \times 2} + \frac{1 \times 5}{2 \times 5}$$

$$= \frac{3}{10} - \frac{2}{10} + \frac{5}{10}$$

$$= \frac{6 \div 2}{10 \div 2}$$

$$= \frac{3}{5}$$

$$\frac{3}{10} - \frac{1}{5} + \frac{1}{2} = \frac{3}{5}$$



• Use semi-concrete materials or diagrams to solve questions.









How many curry puffs are there on each plate?





**25** pieces of *penganan* were served.



 Carry out online quiz, such as Kahoot. Encourage pupils to interact with friends in their group.











Discuss with pupils the uses of decimal numbers in daily situations.
Surf https://www.mathsisfun.com/subtracting-decimals.html for enrichment exercises.

TEAGHE









Explain to pupils when to ignore the zero after the decimal point. For example, 12.50 (ignore the zero) and 12.05 (the zero cannot be eliminated).











2.3.2



Guide pupils to determine the operation to solve the problems by identifying important information and keywords.
Vary the questions such as "What is the difference between the most and

the least mass?".



2 The total number of members of the Science Club is 140.  $\frac{3}{7}$  of the members are Year 4 pupils. Another  $\frac{1}{2}$  of the members are Year 5 pupils. Calculate the difference between the number of Year 4 and Year 5 pupils.



3 Three balloon cars were built from waste materials. The table shows the distance covered by each car. What is the difference in distance covered by Pythagoras car and Einstein car?

Name of car	Distance covered
Einstein	2.15 m
Pythagoras	1.15 m more than Newton
Newton	3.l m



Given	Distance cove Newton Pythagoras Einstein	ered: 3.1 m 1.15 m more than Newton car 2.15 m	Find	Difference in distance covered by Pythagoras car and Einstein car.
Draw diagra	Newton Pythagoras Einstein	3.1 m           3.1 m           1.15 m           2.15 m           difference		
	peration Add	and subtract .15 m – 2.15 m =	m	
****	$\begin{array}{c} 3.10 \\ 1.15 \\ 4.25 \\ \hline 2 \end{array}$	. 2 5 . 1 5 . 1 0	2.10 2.15 4.25	4.25 - 1.15 3.10
	3.I m	n + 1.15 m – 2.15 m =	<b>2.1</b> m	

The difference in distance covered by Pythagoras car and Einstein car is **2.1** m.

Calculate the difference in distance covered by Newton car and Einstein car.



2.4.1

Ask pupils to collect data on sports events such as the long jump in 2019 SEA Games. Then, find the difference in distance between the farthest jump and the shortest jump. Solve problems based on the data. 4 In conjuction with Sports Day, Green House needs to prepare 8 pieces of flags of equal size. The total length of cloth needed is 14.96 m. What is the length of cloth for each flag?






Complete the table. Which team won?

## Time Recorded for Treasure Hunt Competition

Team	Challenge A	Challenge B	Total time
Ibnu Sina	$I\frac{1}{6}$ hours	$2\frac{1}{3}$ hours	
Ibnu Khaldun	$I\frac{2}{3}$ hours	$2\frac{4}{5}$ hours	

Pauline gets RM6 for her pocket money from her father every day. She spends  $\frac{2}{3}$  of the money. The balance is saved in

a money box.

- a How much money does she spend every day?
- b Does her savings exceed RM8 after 5 days?
- 3 Gawing goes to school every day. Gambit was absent on Thursday.
  - a Total up the distance they both travelled in a day.
  - b Calculate the difference in distance travelled by Gawing and Gambit for that week.
- Cambit's house 2.3 km 0.7 km 0.52 km 2.2 km Cawing's house
- Read the sentences below.

Kelvin gets 48 out of 60 marks in the Environmental Quiz. Dina gets 24 out of 32 marks in the Road Safety Quiz.

Prem Singh gets 81 out of 90 marks in the Flora and Fauna Quiz.

Who has the highest percentage of marks? Show the calculations.

• Provide various levels of problem solving questions regarding fractions, decimals, and percentages.

 Ask pupils to solve the problems in groups to enhance their understanding. Present the answers.





Complete the following cross-number puzzle.







In pairs, ask pupils to complete the cross-number puzzle.
Instil cooperation and meticulousness when performing calculation.









Ask pupils to share their holiday experiences in the country or abroad.

3.1.1

 For the activities of addition of values of money, ask pupils to gather information on the cost of tour packages from brochures or the Internet.





2) The table shows the amount of money in the accounts of Watson's parents.

	Account	Watson's Mother	Watson's Father
	Salary	RM4 857	RM6 932.86
	Savings	RM23 156.75	RM48 900
	Trust Fund	-	RMI0 973.42
	<ul> <li>How much money d</li> <li>RM23 156.75 + RM4 &amp;</li> <li>RM 2 3 1 5</li> <li>+ RM 4 8 5</li> <li>RM 2 8 0 1</li> <li>RM23 156.75 + RM4 &amp;</li> <li>Watson's mother has</li> </ul>	0es Watson's mother ho857 =6 . 7 57 . 0 03 . 7 5857 = RM28 013.75857 = RM28 013.75 altogether	er.
(	h Total up the manau	of Matcon's fathor	







<sup>•</sup> Instil patriotism using examples of local products.





What is the balance of Puan Badariah's money after the investment in batik trading?

RM45 180 + RM23 596.30 - RM60 849.70 =

RM45 180 + RM23 596.30 - RM60 849.70 = **RM7 926.60** 

The balance of Puan Badariah's money is **RM7 926.60**.

2 RM66 258 - RM907.45 + RM8 138.20 =

– RM

КРМ

RM 6 & 2 5 8.90	→ RM 6 5 3 5 0 . 5 5
RM 907.45	+ RM 8 1 3 8 . 2 0
RM 6 5 3 5 0 . 5 5 🧹	RM 7 3 4 8 8 . 7 5

RM66 258 - RM907.45 + RM8 138.20 = RM73 488.75

Calculate RM8 138.20 - RM907.45 + RM66 258. Are the answers the same?



3.2.



**10LTIPLICATION OF MONEY** Each of us receives a financial aid of RM2 800. a What is the total amount of financial aid received by the 5 pupils above? 5 × RM2 800 = Find the combination, Method 2 multiply, and then add the products together. Method

RM2 800

RM2 000 RM800

 $5 \times RM2\ 000 = RM10\ 000$ 

RMI0 000 + RM4 000 = RMI4 000

 $5 \times RM800 = RM4\ 000$ 

5 × RM2 800 = RMI4 000

5

2800

RM | 4 000

RM

×

The total amount of financial aid is RMI4 000.

34 pupils receive the same amount of financial aid as above. (b) Calculate the total amount of financial aid.













RM54 000 ÷ 60 × 15 =

КРМ

 $\frac{\frac{900}{8M54+000}}{\frac{60}{1}} \times 15 = \text{RMI3}\ 500$ 

RM54 000 ÷ 60 × 15 = RM13 500

The cost of 15 similar tablets is RM13 500.



3.2.2

• Use other calculation strategies like estimation and partition to multiply and divide values of money.



4 The following shows calculations by two pupils to solve RM20 000 divided by 5 multiplied by 8.







• Explain the importance and benefits of making a budget to manage money systematically in order to achieve a target. Encourage habits of saving money and utilising free time to earn extra money such as by washing cars.

3.3.1 3.3.2

W	eekly Bu	ıdget - Jı	uly
Week	Money received	Savings	Expense
First	RM26.00	RMI4.10	RM11.90
Second	RM20.00	RM10.00	RM10.00
Third	RM25.00	RMI4.50	RMI0.50
Fourth	RM22.00	RMI2.00	RM10.00
Total	RM93.00	RM50.60	RM42.40

d	Monthly Savings Table				
	Month	Savings	Notes		

	<b>-</b>	
July	RM50.60	
August	RM40.50	
September	RM41.85	
October	RM47.00	
Total	RM179.95	





119

**KPM** 

3.3.1 3.3.2

die

Good job,

Zali!

I have collected

enough money to

buy a chess set.

- Guide pupils to record their daily income and expenses in their pocket money book and keep a weekly and monthly financial record.
- Provide tasks to train pupils in preparing weekly and monthly budget in groups. Ask them to present their work and discuss.







• Carry out an in-depth discussion on the importance of keeping records of savings and expenses, and ways to save money.

3.3.3

• Surf http://www.fomca.org.my/vl/index.php/fomca-di-pentas-media/fomca-dipentas-media-2016/59-membantu-pelajar-merancang-kewangan



Nabila wishes to buy *Kamus Dewan*. Help Nabila to plan a budget using MS Excel so that she can buy the dictionary.

Tools/ Question cards (Nabila's savings and Materials expenses) and MS Excel software.

Date	Money received		Expense	Э
06.06.2020	Duit raya	RM25.00		
10.06.2020	Pocket money	RM6.00	Nasi lemak	RMI.50
13.06.2020	Pocket money	RM6.00	Roti canai	RMI.20
17.06.2020	Pocket money	RM6.00	Curry mee	RMI.50
28.06.2020	Pocket money	RM6.00	Bread and milk	RM2.00
29.06.2020	Pocket money	RM6.00	Roti jala	RM2.00



Scan the following QR Code to learn the steps of preparing a budget in MS Excel.





- Karl wants to buy a pencil case which costs RMI2.
  - a Is Karl's total expenses equal to his total income?
  - b Does Karl have enough money to buy the pencil case?

## Karl's Budget

Money reco	eived	Expense		
Pocket money	RM5.00	Curry puff and cake	RM2.00	
Pocket money	RM5.00	Nasi lemak	RM2.00	
		Drawing paper	RMI.00	
Pocket money	RM5.00	Tose	RM2.00	
From brother	RM10.00	Stationery	RM5.00	
Pocket money	RM5.00	Roti canai	RM2.00	
Pocket money	RM5.00	Steamed bun	RM2.00	
Earned from	RMI5.00	Тоу	RM5.00	
washing cars				
Total				

State two importance of keeping records of savings and expenses.

List ways to save money.

• Guide pupils to identify and keeping records of savings and expenses using MS Excel in the Fun Exploration activity.

Instil values of being thrifty and spending money wisely.



	<b>KE WI</b> S	<b>SE DE</b> ra's Wisl	<b>CISIO</b> nes for A	August	I want trainin	to do high jump g. This branded
	Need	ls	W	ants		omfortable and
	Rice	9	Birya	ini rice		durable.
	School s	hoes	Branded s	ports shoes	8	
	Zura's <b>priority</b> is to buy a <b>branded pair of sports shoes</b> .					
Ia	I am estimating the price of a branded pair of sports shoes to be RMI20. I have RM60 as savings. I must try to save money before August.					
b	)					
	Price of sports	Cash in hand	Money needed	The amount needed to	Duration to	Ways to earn extra moneu

shoes			be saved monthly	achieve	Ĵ
RM120	RM60	RM60	RM30	2 months	<ol> <li>Selling <i>kuih</i></li> <li>Washing cars</li> <li>Selling used items</li> </ol>

# С

Date	Money earned		Spent		Balance
19.05	Cash in hand	RM60.00	None	RM0.00	RM60.00
26.05	Selling <i>kuih</i>	RM8.00	None	RM0.00	RM68.00
02.06	None	RM0.00	Stationery	RMI5.00	RM53.00
16.06	Washing cars	RM40.00	None	RM0.00	RM93.00
21.07	Selling used items	RM50.00	Donation	RM5.00	RMI38.00

Will Zura manage to buy the branded sports shoes?



3.4.1

3.4.2 3.4.3



 Each group of pupils is given different situations to discuss. Pupils then make financial decisions and justify the decisions made. The jamboree fee is RM90. I only have RM60 in my money box.

2



Lee needs to earn extra money to join the Scouts Jamboree in September. The following is his financial record for August.

10.08	Received from uncle RM5
20.08	Bought notebook RM6
22.08	Sold National Day
	bookmarks RMI7
23.08	Donated to jogathon RM3
25.08	Sold old newspapers RM8
31.08	Cash money from lucky draw
	RM20

## Lee's Financial Record

Date	Money earned		Spent		Balance
01.08	Savings	RM60.00	None	RM0.00	RM60.00
10.08	Received from uncle	RM5.00	None	RM0.00	
20.08	None	RM0.00	Bought notebook	RM6.00	
22.08	Sold bookmarks	RM17.00	None	RM0.00	
23.08	None	RM0.00	Donated to jogathon	RM3.00	
25.08	Sold old newspapers	RM8.00	None	RM0.00	
31.08	Lucky draw	RM20.00	None	RM0.00	

Complete Lee's financial record. Does he have enough money to join the jamboree?





- List ways to earn extra money.
- Write down your needs and wants. Decide on your priority. Prepare a financial record to achieve your priority.

• Discuss the effects of making financial decisions on oneself and family.



# MAIN CURRENCIES OF THE WORLD AND THEIR VALUES



Let's look at foreign currency values compared to one ringgit. The values vary according to current exchange rates.

#### Foreign Currency Exchange Rate Compared to RMI

Country		Currency	Exchange rate
	United States of America	Dollar	0.238
÷	Canada	Dollar	0.317
	France	Euro	0.219
	Russia	Ruble	15.539
	South Korea	Won	286.51
\$3983	Saudi Arabia	Riyal	0.895
	Great Britain	Pound Sterling	0.194
*):	China	Renminbi	1.705
•	Japan	Yen	25.823
	Bangladesh	Taka	20.148
۲	India	Rupee	16.963
	Australia	Dollar	0.356

Source: https://my.exchange-rates.org/ retrieved on 1.10.2019



ST YOURSE

Canada



ar.

3.5.1

3.5.2

State three countries that use dollar.

What is the currency of each country below?
a United States of America
b Great Britain
c South Korea
d Bangladesh

2 State the currency and value compared to RMI for the countries below.

a China
b Russia
c Japan
d Australia

Discuss the importance of foreign currency exchange and their uses in daily life.
 For example, in tourism and in business.

• Discuss factors of changes in currency rate for additional knowledge.



### Discuss other payment instruments.



3.6.1

3.6.2



- Ask pupils to share experiences of using the latest payment instruments. For example, e-wallet and QRpay.
- Provide several situations and ask pupils to state the suitable payment instruments.



# SOLVE THE PROBLEMS

The table shows the prices of computer equipment supplied by a wholesaler to three computer shops. Calculate the total price of the computer equipment supplied.

•		
Shop	Price of computer equipment	
А	RMI2 425.20	
В	RMI9 899	
C	RM28 170	



RMI2 425.20 + RMI9 899 + RM28 170 = RM60 494.20

The total price of the computer equipment supplied is RM60 494.20.

Calculate the difference in the price of computer equipment between shop A and shop C.



3.7.1

2) In July, Anding pays his son's tuition fees of RM27 000 using his savings of RM85 600.40. In August, he deposits a cheque worth RM33 565 into his account. What is his current balance?



3 The cost of installing a closed-circuit camera in a shophouse is RM2 750. What is the cost of installing similar cameras in 8 shophouses?



## write down information

The cost of installing a camera in a shophouse is RM2 750. Find the cost of installing cameras in 8 shophouses.



The cost of installing cameras in 8 shophouses is RM22 000.



The cost to renovate Encik Ming Ho's house is <u>RM75 000</u>. He pays in <u>5 equal instalments in April, May, June, July,</u> and August.

a How much payment is made until June?

**b** What is the balance of payment to be paid after June?







Underline the important

information.



- A charity donation of RM85 475.80 is distributed to 3 welfare homes. Fikrah Orphanage and Cahaya Orphanage receive RM25 630 and RMI9 570.50 respectively. The balance is received by the home for the elderly.
  - a How much money does Fikrah Orphanage and Cahaya Orphanage receive altogether?
  - **b** Calculate the sum of money given to the home for the elderly.
- 2 Zaidi's father had RM34 807.12 in his bank account. A year later, he withdrew RM20 000 to run his durian and mango farms. After a period of time, he banked in RM13 047.80 obtained from his farm's produce. Calculate his remaining account balance.
- 3 The picture shows the price of a motorcycle. Mahsuri Jaya Transport Company buys 9 motorcycles for its business. What is the total price of 9 motorcycles?



- 4 Twenty years ago, Langkanau's mother bought a gold necklace at the price of RM2 125. Its price now is 5 times the original price. Calculate the current price of the gold necklace.
- 5 Puan Kumari has an annual pay of RM85 675.80. Calculate her monthly pay.
- 6 Syarikat Bintang Emas allocated RM87 750 for Tuition Harapan programme. The money is distributed equally to 13 secondary schools. How much money is received by 3 schools?
- 7 The total amount of rental collection for several homestays is RMI5 600 per month and is equally divided among 3 friends. How much profit does each person gain in 6 months?











- Prepare several sets of cards for the activity.
  Modify questions to suit pupils' ability.
- Download questions for Tarsia from the Internet.



- 6 In conjunction with Visit Malaysia Year, tourists from the United States of America, the Great Britain, and Saudi Arabia travel to Malaysia. What is the currency for each country?
  - List suitable payment instruments for the situations below.

a Victor's father pays a toll fare of RM25.50.

b Kalsom's mother purchased goods worth RM560. She made a cashless payment.



