

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



#### Writers

Chan Yook Lean Gobi a/l Krishnan Rozaili bin Mohd Ali

#### Translators

Ahmad Azrul Arefe bin Ahmad Rosdi Jeyasingam a/l Govindaraj Ng Lee Ching Norehan binti Mohamed Shaharoun

#### Editors

Ainol Rafezah binti Alias Asmahanim binti Ab Rahman Mohd 'Udzair bin Depanaik Nurul Shaheza binti Zamri

Illustrator

Sheikh Zulkhibri bin Salim

Graphic Designers Mohd Nazri bin Murtaaza Ahmad Kamal Firdaus bin Amer Hussin





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## PREFACE

The writing and publication of the *Mathematics Year 5 Textbook for Primary School* is based on the National Education Philosophy, the National Education Policy, and the Malaysia Education Blueprint (PPPM) 2013 – 2025. The emphasis on activity-based and inquiry-discovery learning supported by continuous assessment methods, as well as the integration of the six KSSR fundamental strands is hoped to produce human capital that is intellectually, spiritually, emotionally, and physically balanced and harmonious. In addition, its content emphasises on the socio-cultural aspects of the Malaysian society, as well as the integration of the 21st Century Learning as we are heading towards world-class education.

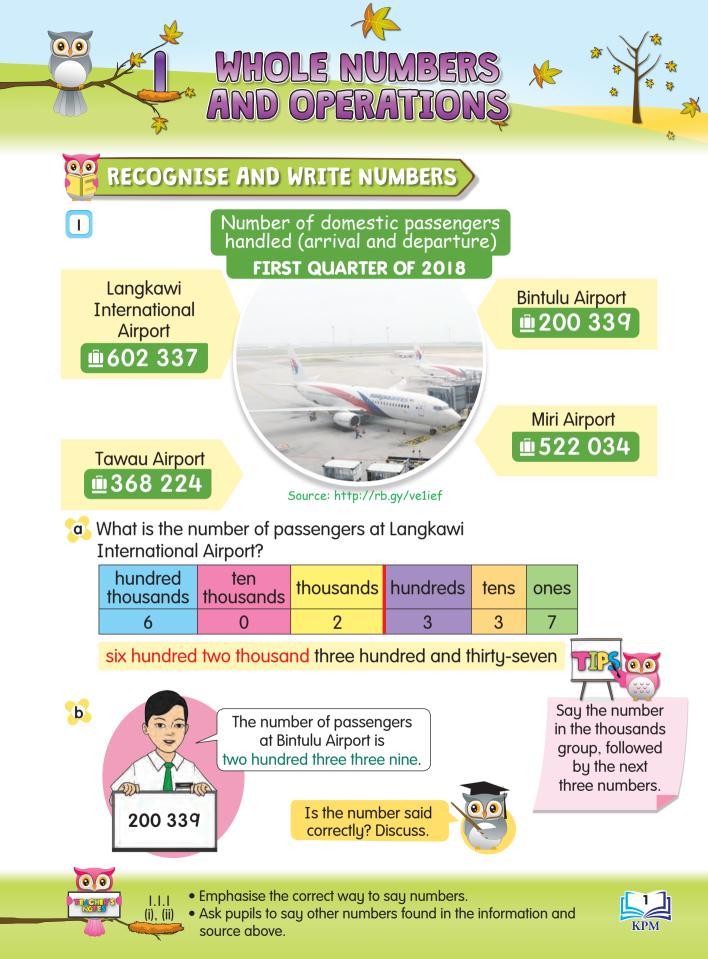
The content of this textbook is systematically designed into eight units to meet the requirements of the Dokumen Standard Kurikulum dan Pentaksiran (DSKP) published by the Curriculum Development Division, Ministry of Education Malaysia. This textbook emphasises the concepts and skills in the Learning Standards that prioritise pupils' engagement in learning. The reasoning questions in the learning activities are expected to generate pupils ideas and foster a two-way communication between pupils and teachers, and among peers. The Higher Order Thinking Skills (HOTS) questions aim to produce smart pupils who are globally competitive and competent. The function of this book is optimised by providing tips, relevant facts, Quick Response (QR) Code, Augmented Reality (AR), and a variety of activities including hands-on, projects, and games. The content of this textbook is also supplemented with formative and summative exercises. This is to help teachers identify pupils' level of understanding to implement further learning for improving pupils' mastery of the concepts of the topics learned. Two sets of review questions are provided to strengthen pupils' acquisition of knowledge and skills.

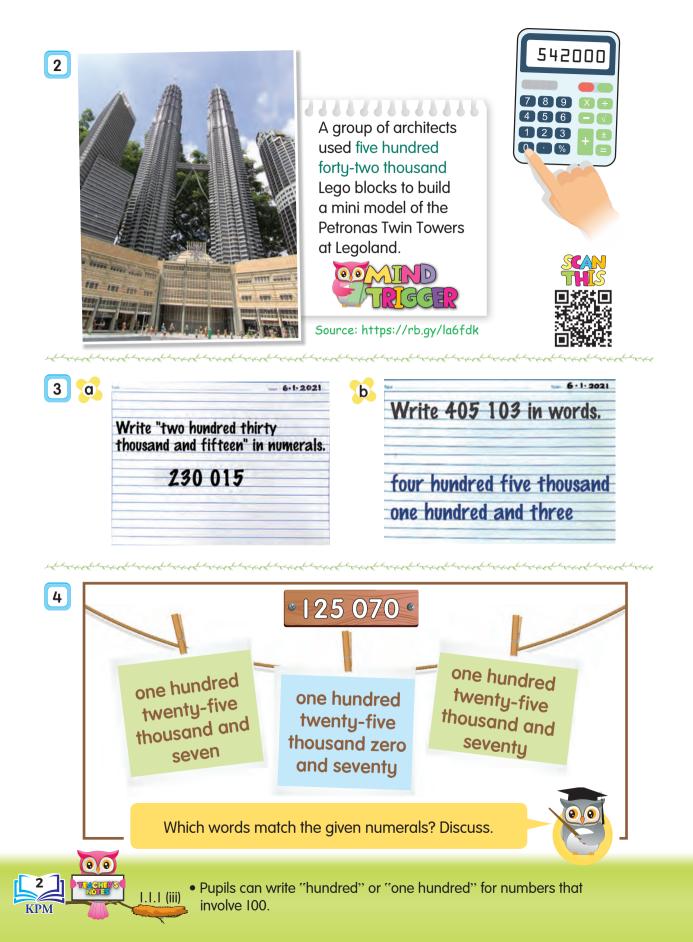
Teacher's Notes enable teachers to implement learning activities effectively. Suggestions of websites are provided for pupils to explore the knowledge learned and to carry out additional exercises. The content of this textbook is presented in a user-friendly manner with the elements of entertainment to attract pupils' interest and incorporated with the elements of national integration, patriotism, and culture through the use of names, characters, and graphic materials.

### FUNCTIONS OF THE ICONS



\*

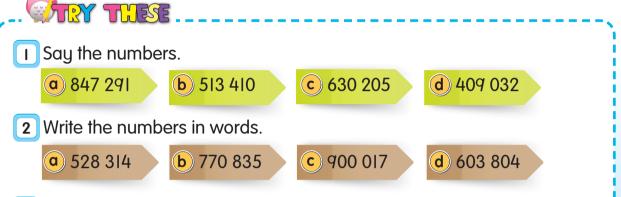




# 3 4 1

5

Form three 6-digit even numbers that are larger than five hundred thousand.



- 3 Find the correct numbers in the number grid for the following words. Rewrite the numbers.
  - two hundred fifteen thousand three hundred and seventy-five

2

0

- **b** seven hundred thousand five hundred and forty-eight
- c eight hundred twenty thousand and twenty-nine
- d five hundred eighty thousand and seven
- e nine hundred thousand and thirty-six
- f four hundred thousand and nineteen
- g three hundred seventy-six thousand and fifty-six

q	0	0	0	3	6	Ι	4	6	5
8	5	8	0	0	0	7	0	Ι	5
2	5	Ι	3	7	5	8	0	6	2
5	8	0	0	7	0	q	0	5	7
Ι	3	8	2	0	2	q	Ι	2	
3	2	7	4	0	6	8	9	0	7
7	7	2	Ι	5	3	7	5	4	6
5	4	Ι	3	4	0	2	3	Ι	5
3	q	0	4	8	2	0	0	2	q
3	7	6	0	5	6	Ι	2	6	4



Vary activities for questions on "Try These". For example, quick
answer quiz for question 3 and add new suitable questions to enhance pupils' understanding.

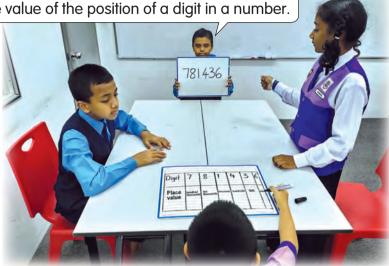


# EXPLORE NUMBERS



Mukhriz, what is the place value of digit 7?

The place value of digit 7 is hundred thousands. Place value is the value of the position of a digit in a number.



b Partition 781 436 based on place values.

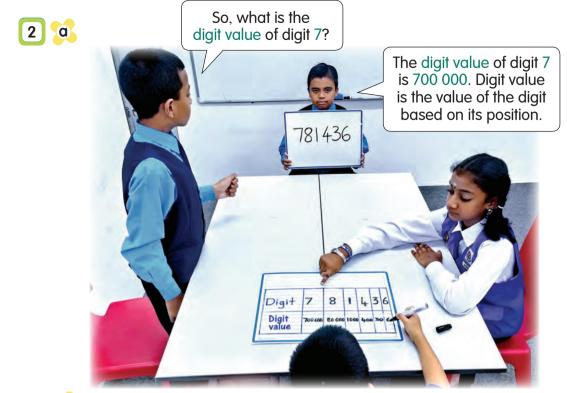
1.1.2 (i), (ii)

Digit	7	8		4	3	6
Place value	hundred thousands	ten thousands	thousands	hundreds	tens	ones

781 436 = 7 hundred thousands + 8 ten thousands + 1 thousands + 4 hundreds + 3 tens + 6 ones

3 Let's complete the place value and digit value chart for a 531 089. Then, partition 531 089 based on place values and digit values. 5 Digit 3 I 0 8 q Place hundred thousands tens ones value thousands 5 hundred I thousands + 531 089 = 3 + thousands 9 ones 8 tens + + 00

> • Emphasise that values involving 0 in place values must be written when partitioning numbers based on place values.



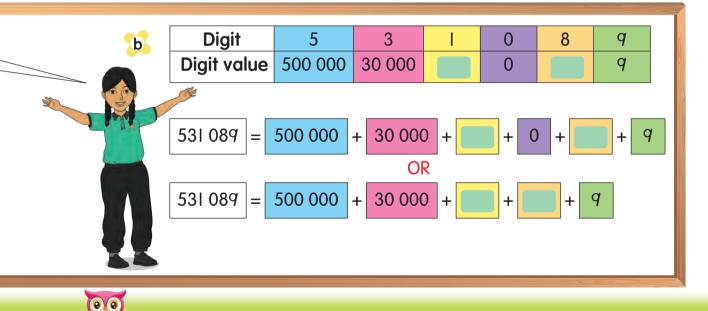
b Partition 781 436 based on digit values.

1.1.2 (i), (ii)

ACTER'S

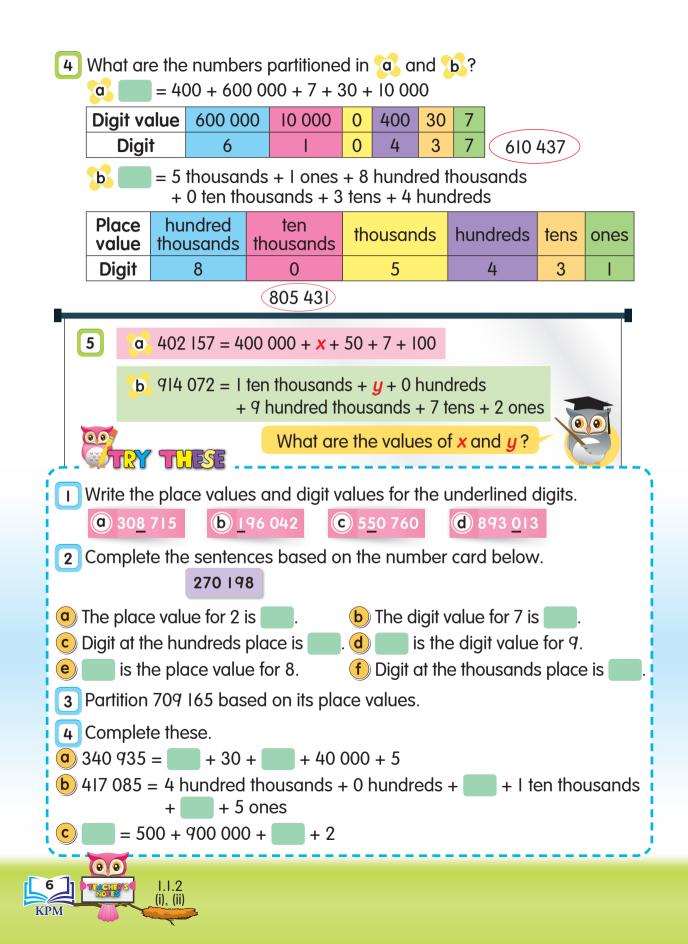
Digit	7	8	I	4	3	6
Digit value	700 000	80 000	1 000	400	30	6

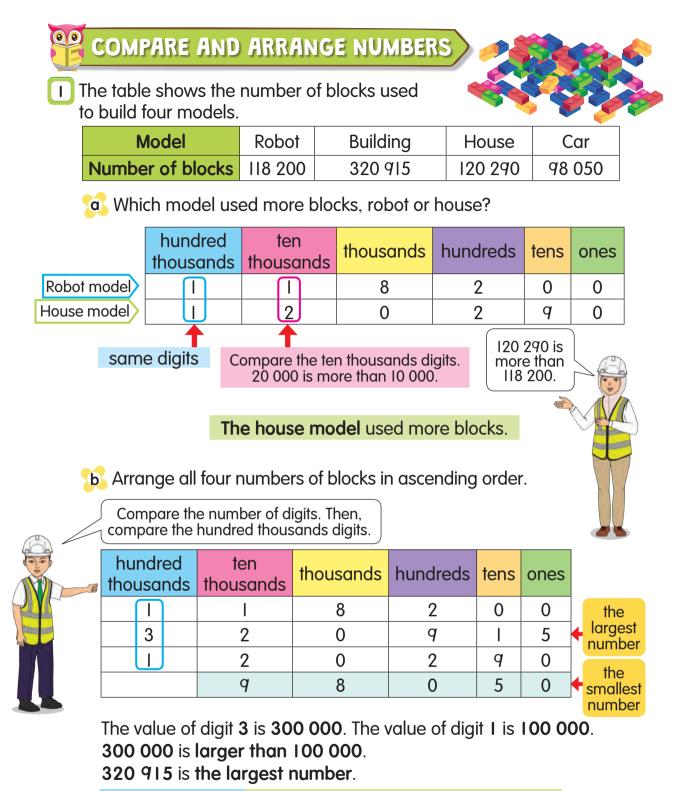
781 436 = 700 000 + 80 000 + 1 000 + 400 + 30 + 6



• Emphasise that values involving 0 in digit values can be left out when partitioning numbers based on digit values.







Ascending order 98 050, 118 200, 120 290, 320 915

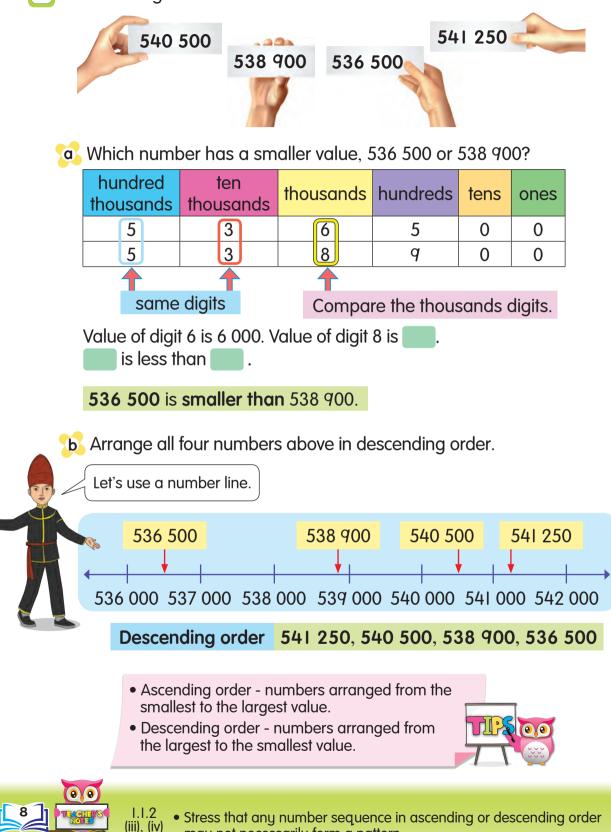


 Carry out group or intergroup activities. Each group writes four numbers and compares any two numbers. Then, arrange the numbers in ascending or descending order.

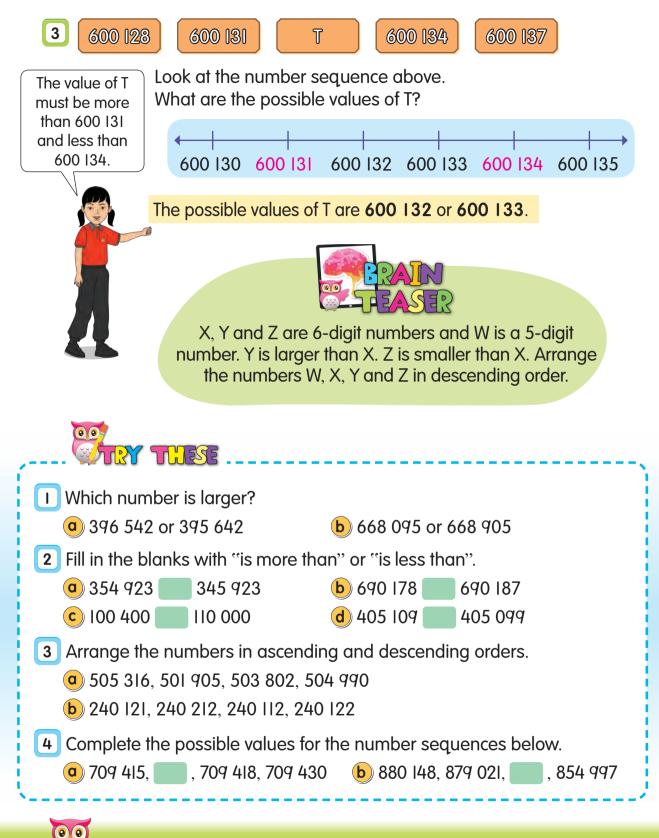


2 The following are four number cards.

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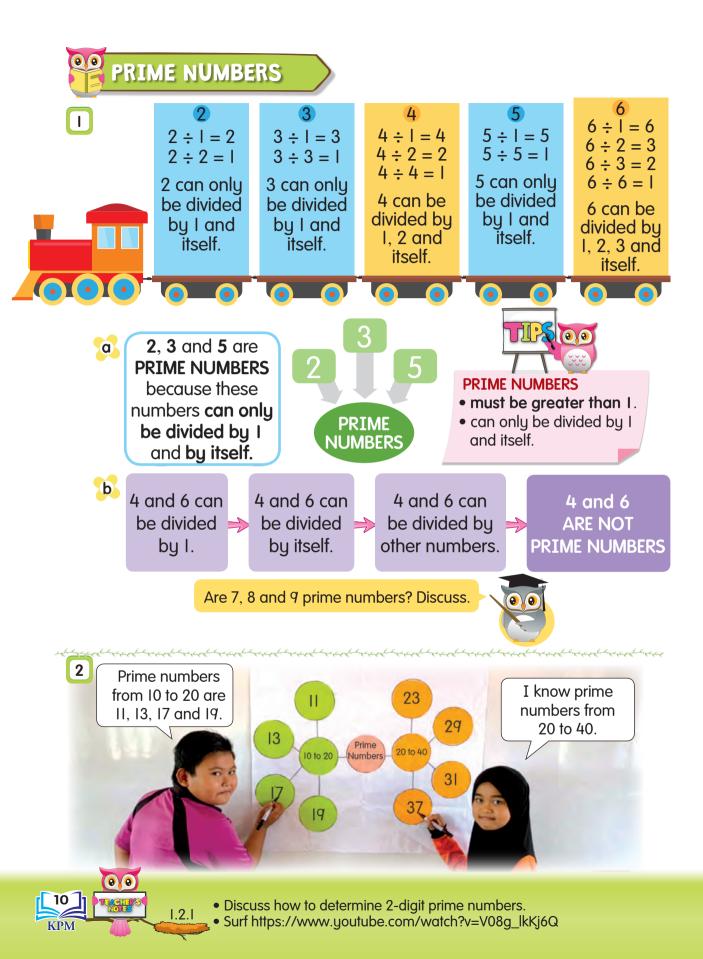
may not necessarily form a pattern.



• Carry out a competition to arrange number cards and complete number sequences in descending or ascending order.

1.1.2 (iii), (iv),







## MALAYAN TIGER FUND

Tools/Materials

glue, adhesive tape, pens, coloured pencils, coloured papers, pictures of Malayan tiger, cylindrical container, MS Word software The Malayan Tiger

**Participants** 

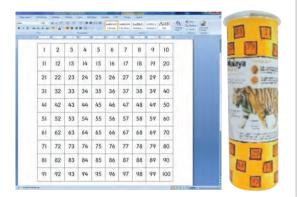
4 pupils in a group

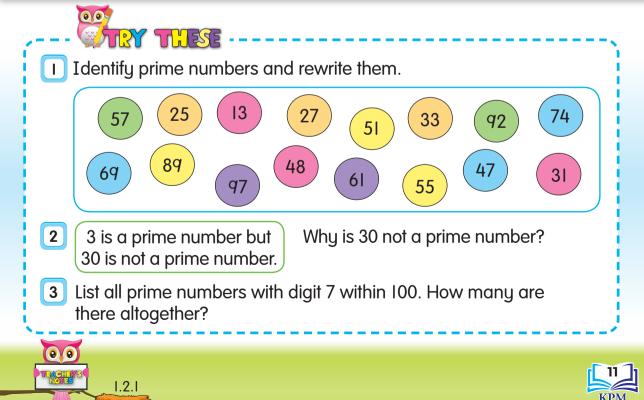
### Task

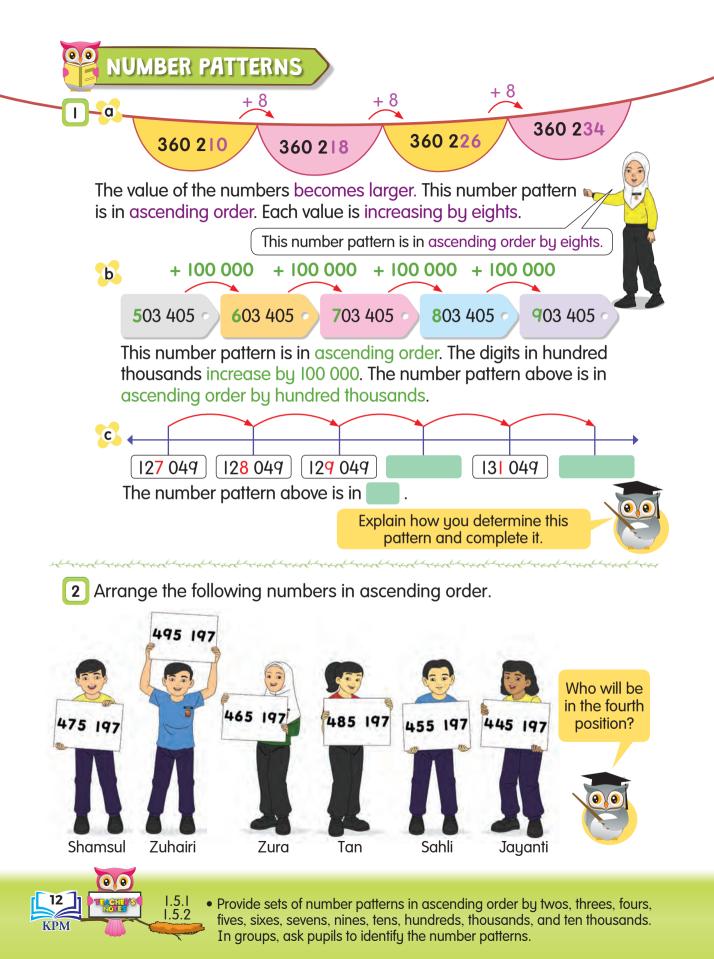


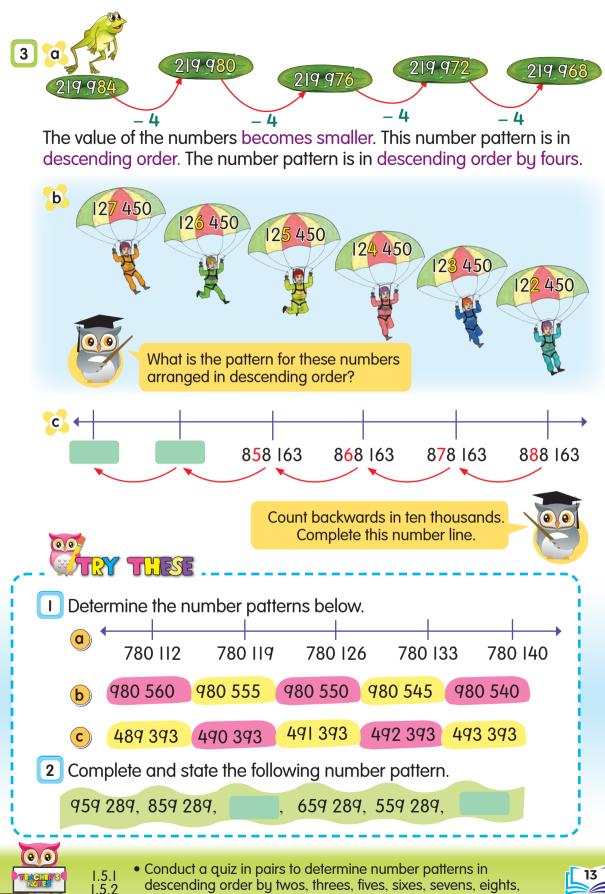
Wrap the cylindrical container with a coloured paper.

- 2 Paste a picture of Malayan tiger on the container.
- 3 Launch MS Word software.
- 4 Click Insert and select Table 10 × 10.
- 5 Type number 1 to 100 in the table and print it out.
- 6 Colour all prime numbers.
- 7 Cut out all the prime numbers and paste them onto the container.









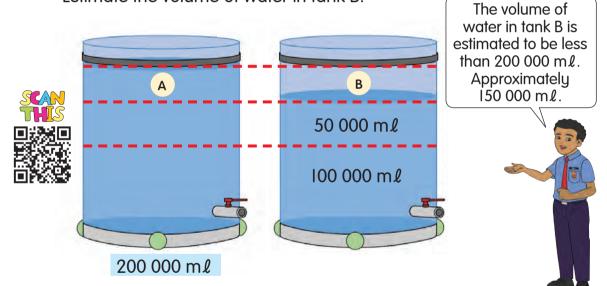
nines, tens, hundreds, and hundred thousands.

ESTIMATE QUANTITIES The water in tank A is full. Its volume of water in tank B is almost three quarters the olume in tank A. The volume of water in tank B is almost three quarters the olume in tank A.

Estimate the volume of water in tank B.

0 0

1.3.

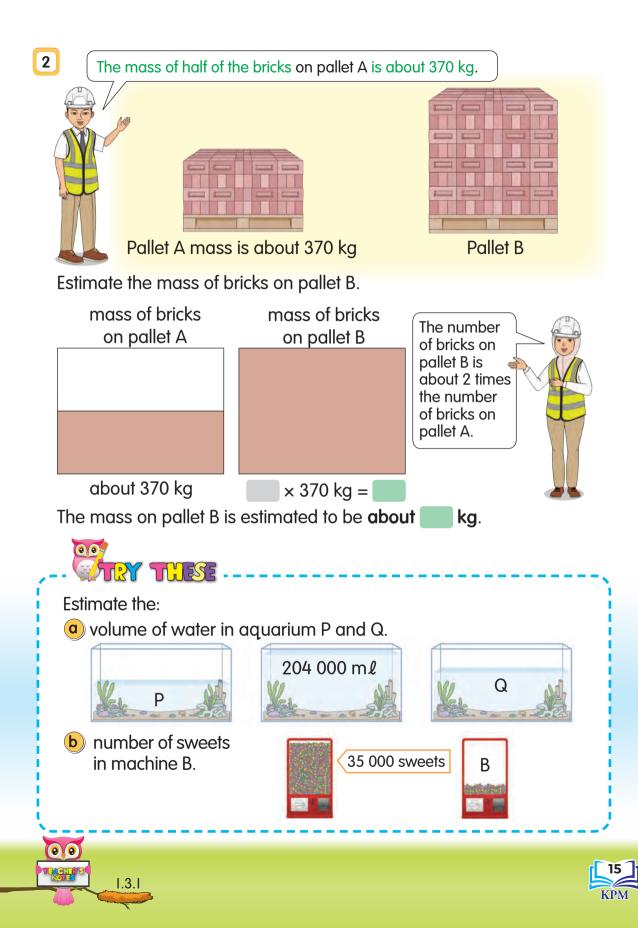


The volume of water in tank B is estimated to be less than 200 000 m $\ell$  or approximately 150 000 m $\ell$ .

The maximum volume of another water tank is 3 times the maximum volume of tank A. Estimate the maximum volume of that tank.



 Carry out simulation activities to estimate quantities using daily life situations.



# ROUNDING OFF NUMBERS

 The rubber production of two states in 2018 are as follows:

Rubber produced (kg)
241 494
264 405



Source: https://rb.gy/a5jncx

Round off 241 494 to the nearest ten thousand.

241 494 240 000 250 000

24I 494 is between 240 000 and 250 000.

241 494 is nearer to 240 000.

241 494 becomes 240 000 when rounded off to the nearest ten thousand.

**b** Round off 264 405 to the nearest hundred thousand.



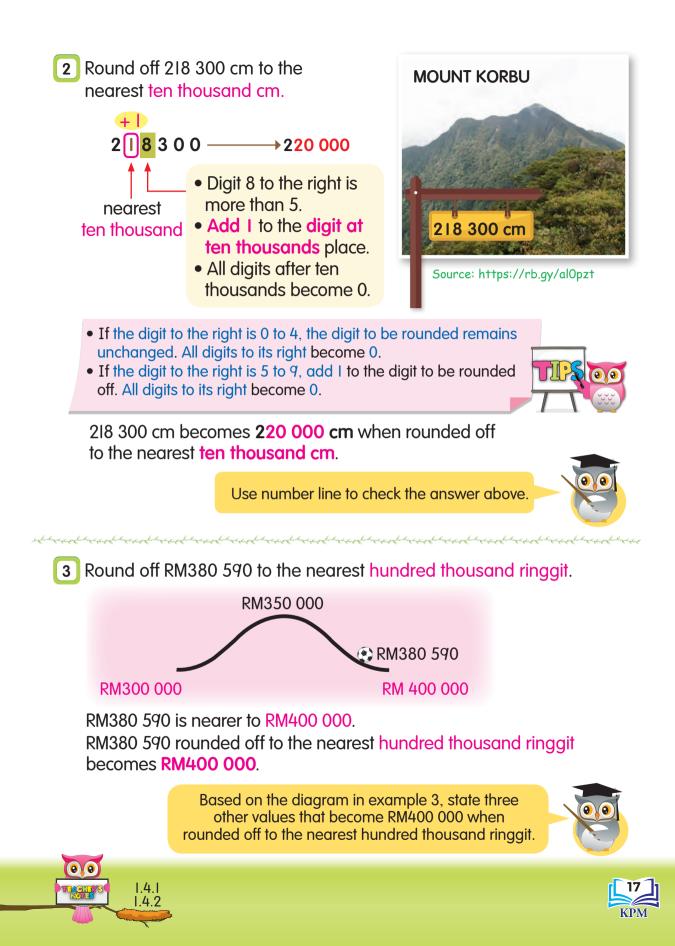
264 405 is between and .
264 405 is nearer to .
264 405 becomes when rounded off to the nearest hundred thousand.

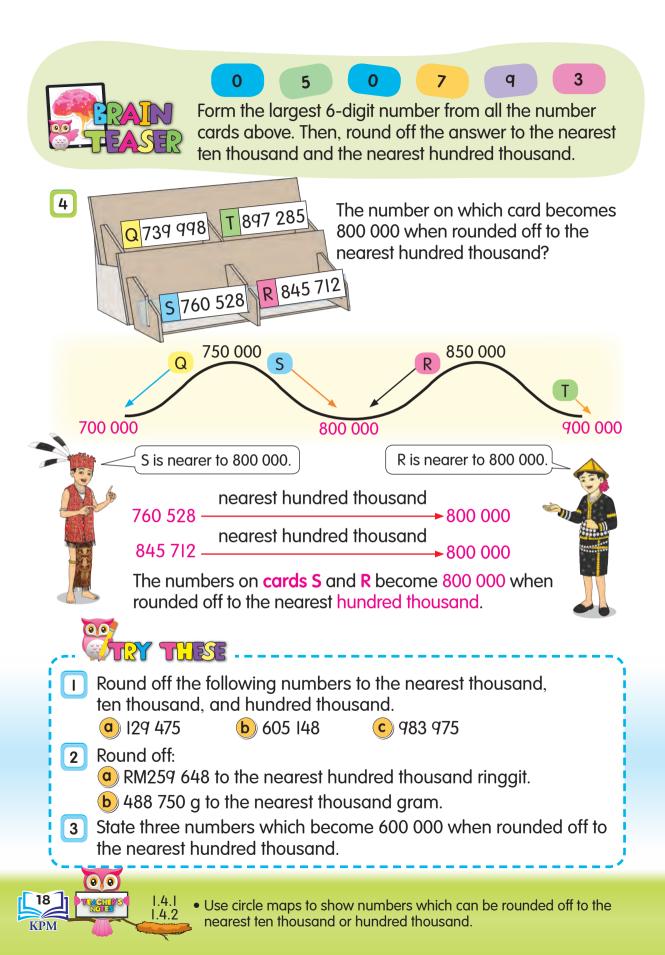


Azlan rounded off 778 990 to become 780 000. When rounded off at the same place value, 109 380 becomes **Constant**.



- Carry out activities to round off numbers using other values on the number line above.
- Discuss rounding off numbers to the nearest ten, hundred, and thousand.







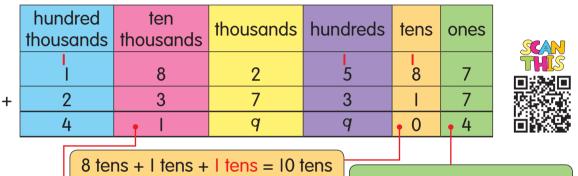
The table below shows the number of primary and secondary school teachers in 2019.

School	Number of teachers
Primary	182 587
Secondary	237 317



Source: https://rb.gy/paahbz

What is the total number of primary and secondary school teachers in 2019? 182 587 + 237 317 =



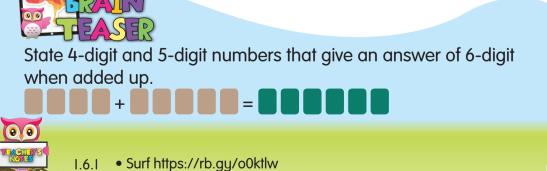
10 tens = 1 hundreds + 0 tens



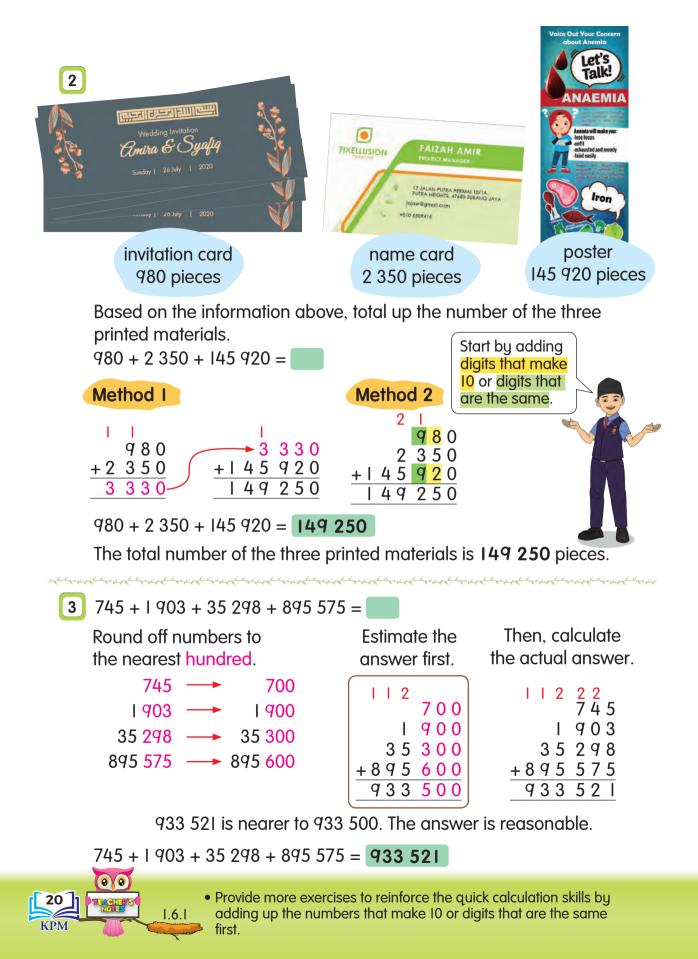
8 ten thousands + 3 ten thousands = 11 ten thousands 11 ten thousands = 10 ten thousands + 1 ten thousands = 1 hundred thousands + 1 ten thousands

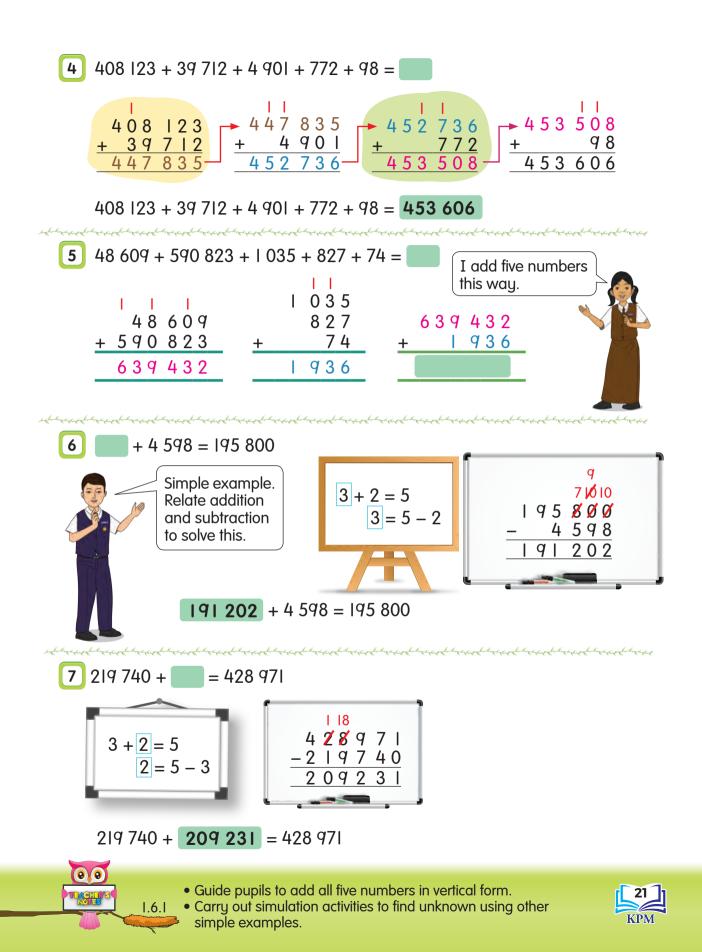
#### 182 587 + 237 317 = **419 904**

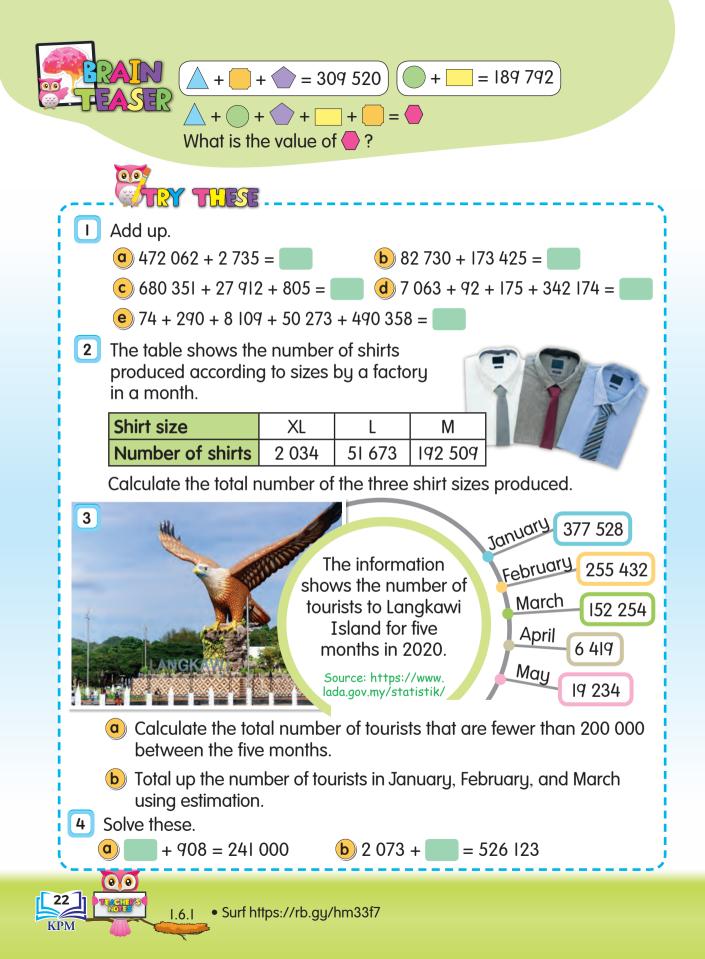
The total number of primary and secondary school teachers in 2019 is **419 904**.

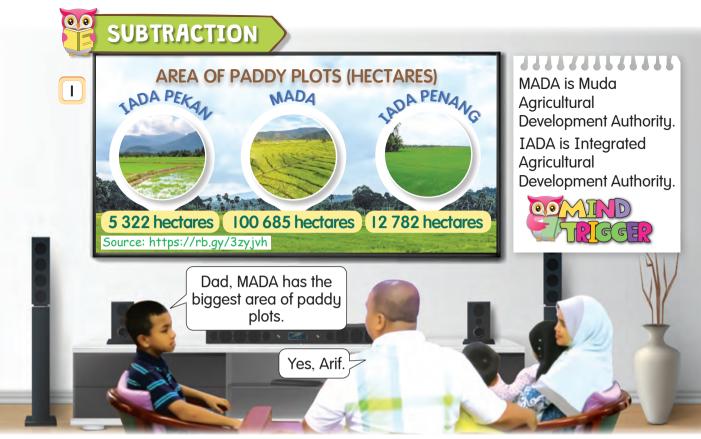












What is the difference in area between MADA paddy plots and IADA Pekan?

#### 100 685 - 5 322 =

	hundred thousands	ten thousands	thousands	hundreds	tens	ones	
_	0 <del>/</del>	a Da	10 Ø 5	6 3	8 2	5 2	Subtract according to place values. Start with ones.
		q	5	3	6	3	

I hundred thousands = 10 ten thousands 10 ten thousands – I ten thousands= 9 ten thousands= 10 thousands

100 685 - 5 322 = **95 363** 

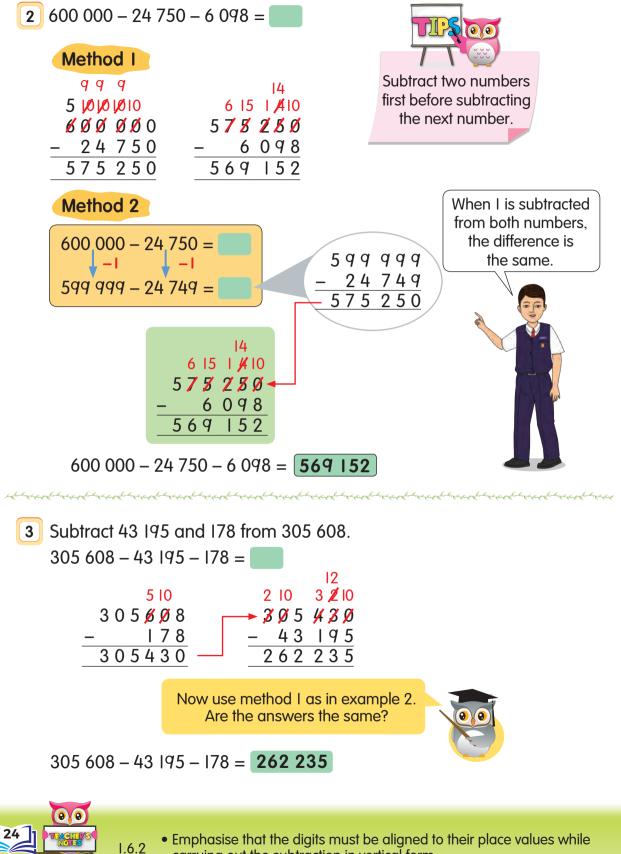
1.6.2

The difference in area between MADA paddy plots and IADA Pekan is **95 363** hectares.

How much larger is the area of paddy plots of MADA compared to IADA Penang?

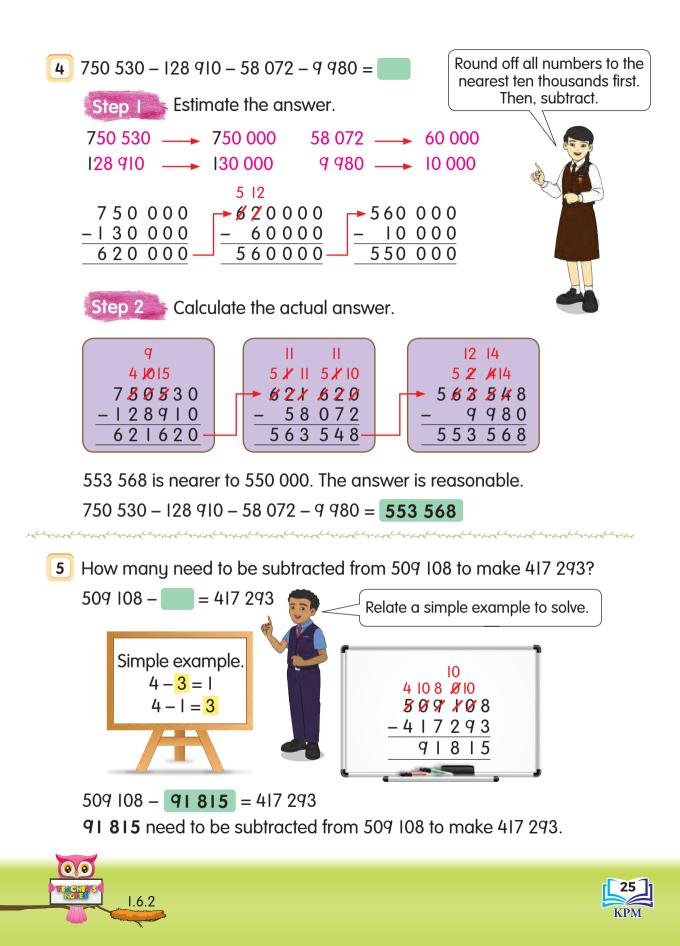
• Use the given data source to find the difference in area between paddy plots of other places.

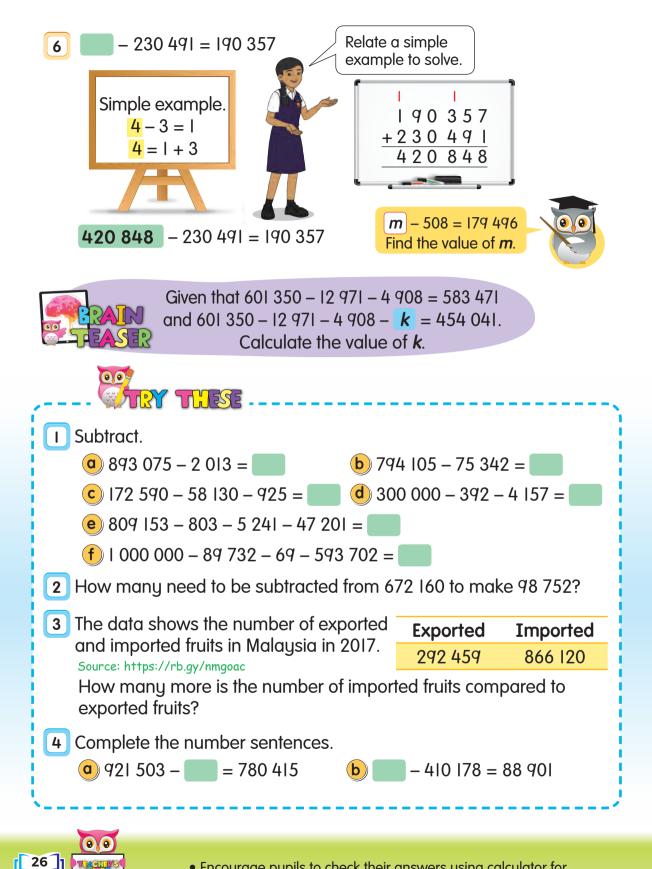




carrying out the subtraction in vertical form.

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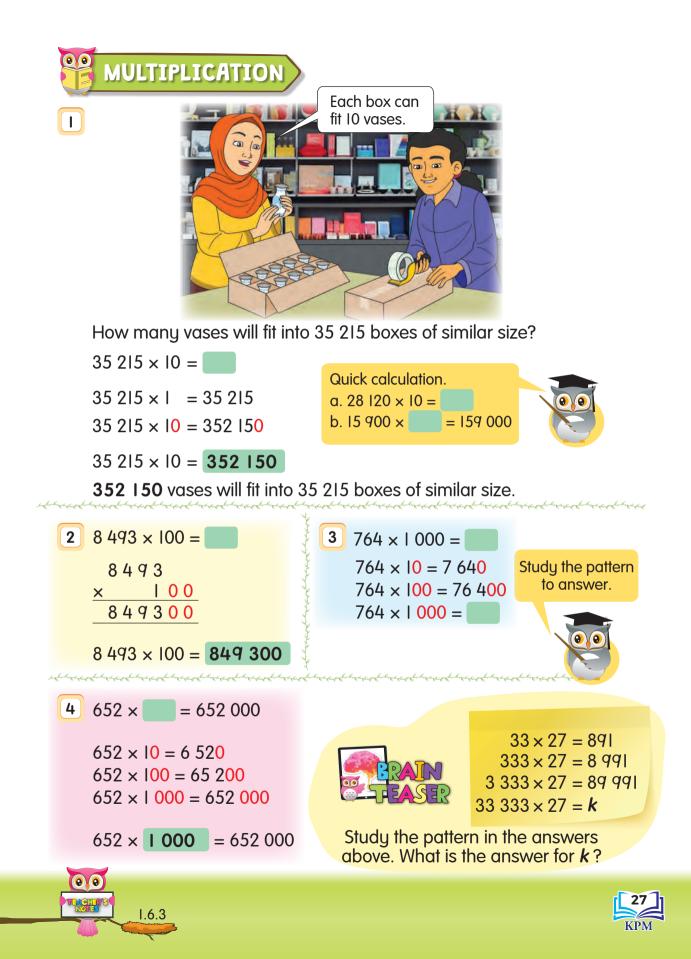




 Encourage pupils to check their answers using calculator for "Try These" questions.

1.6.2

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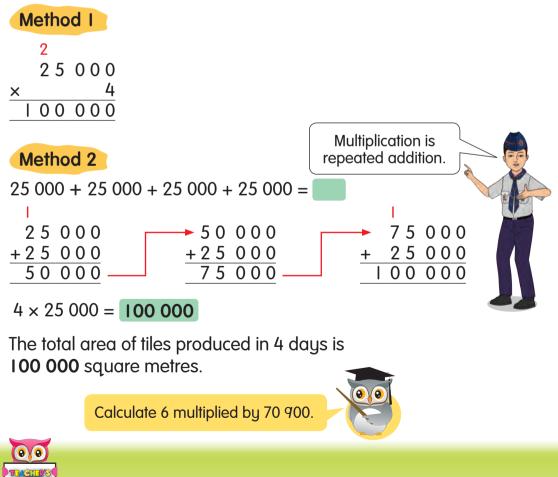


What is the total area of tiles produced in 4 days?  $4 \times 25\ 000 =$ 

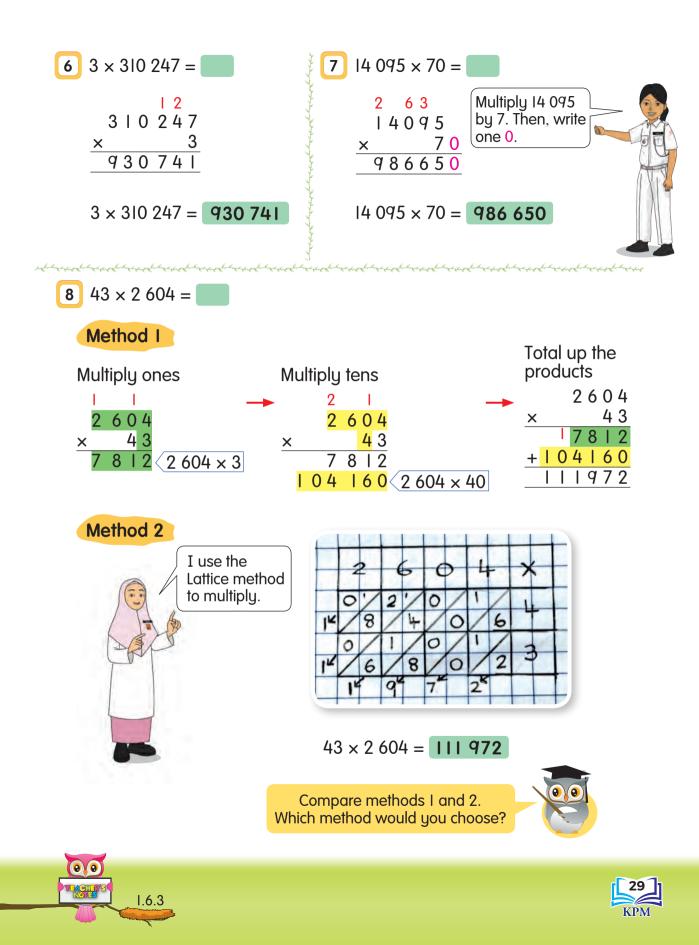
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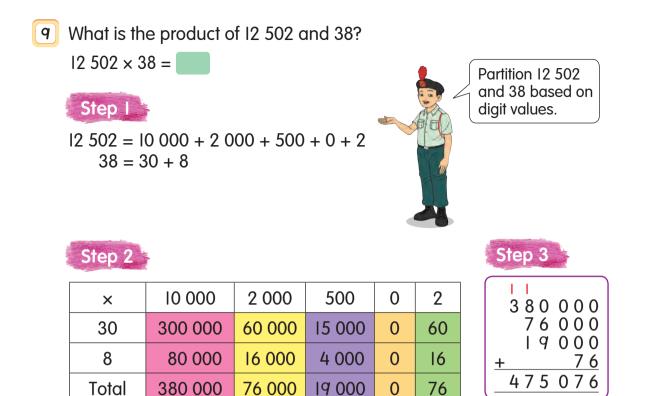
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1.6.3



• Emphasise the process of regrouping to help pupils avoid errors.





I2 502 × 38 = **475 076** 

The product of I2 502 and 38 is 475 076.

https/eptilites/epti

×	30 000	0	700	0	8
10	300 000	0	7 000	0	80
q	27 000	0	6 300	0	72
Total	327 000	0	13 300	0	152

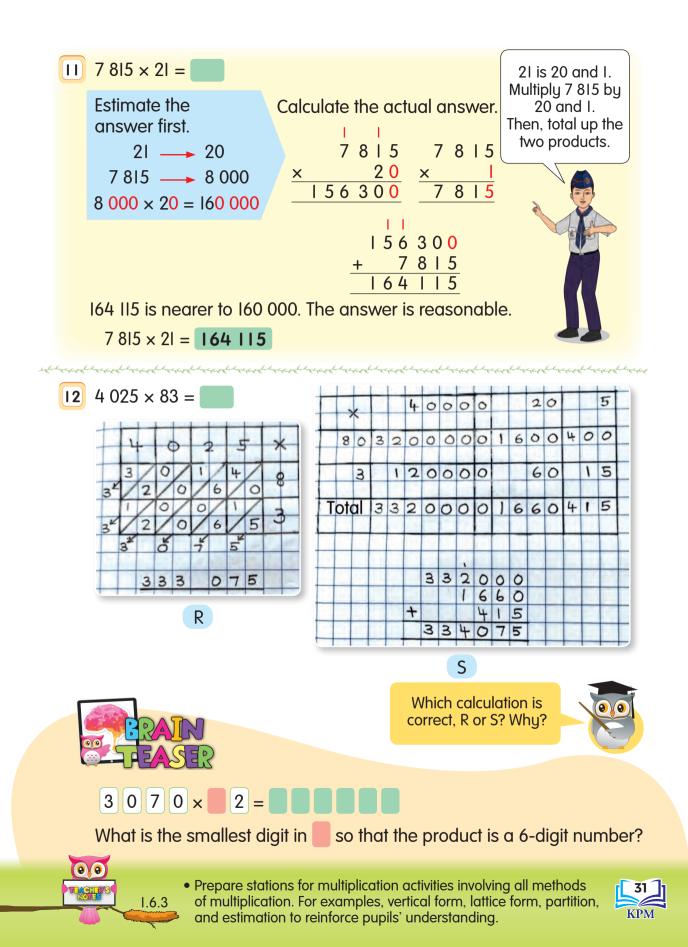
	3	2 I	7 3		0 0	
+					5	2
	3	3	0	4	5	2

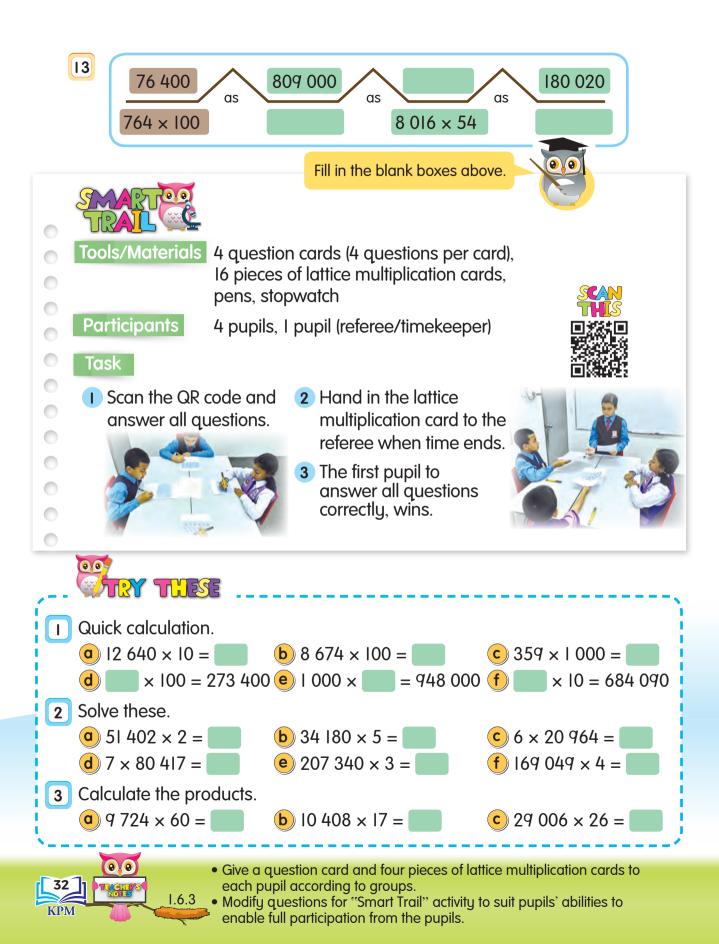
What is the mistake made in the calculation? Discuss.

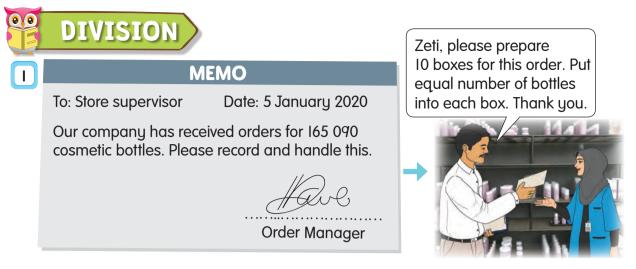




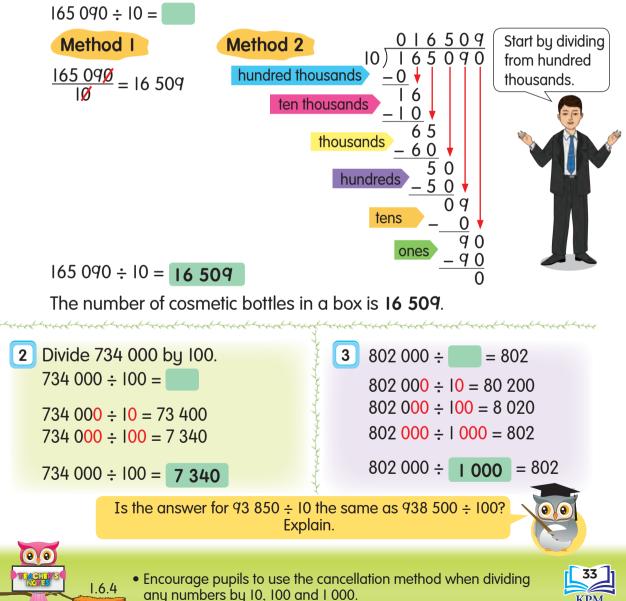
 Emphasise the importance of memorisation of times table for an easier multiplication process involving any two numbers.
 Surf https://www.ixl.com/math/grade-5/box-multiplication

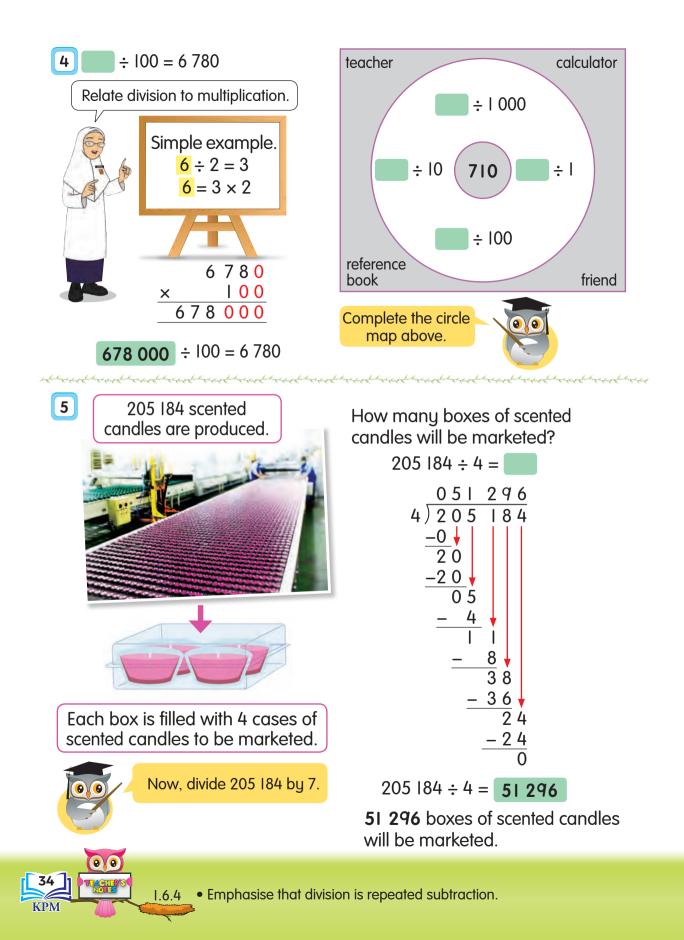


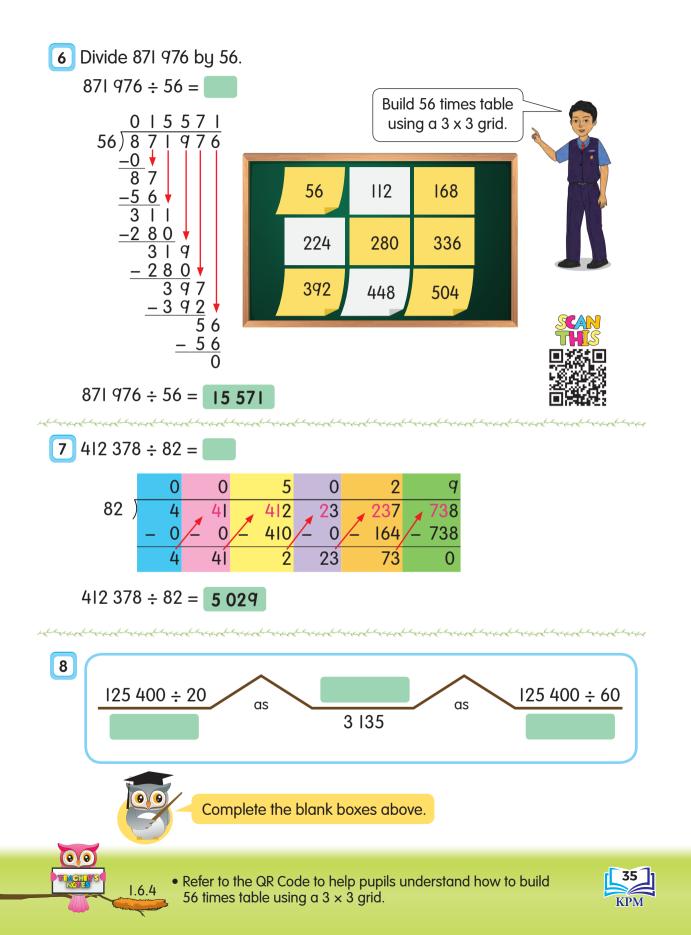




Calculate the number of cosmetic bottles in a box.



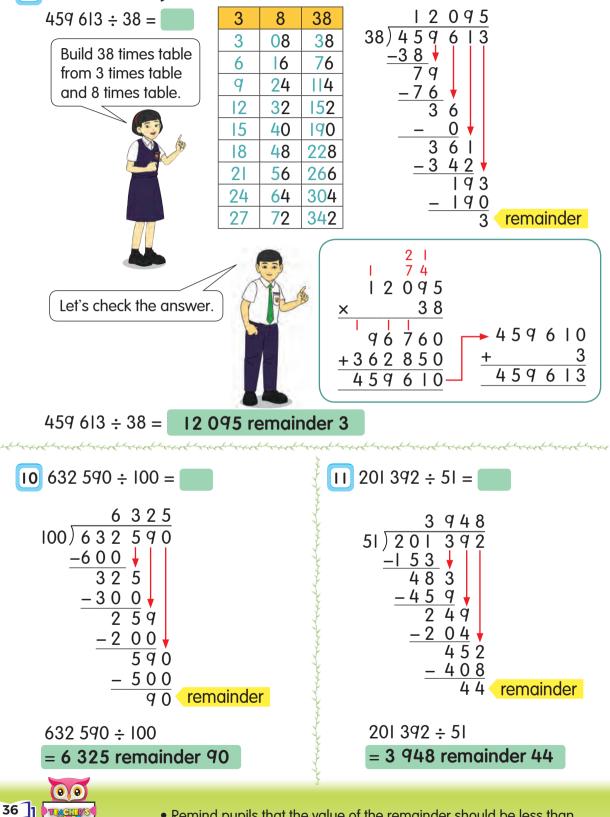




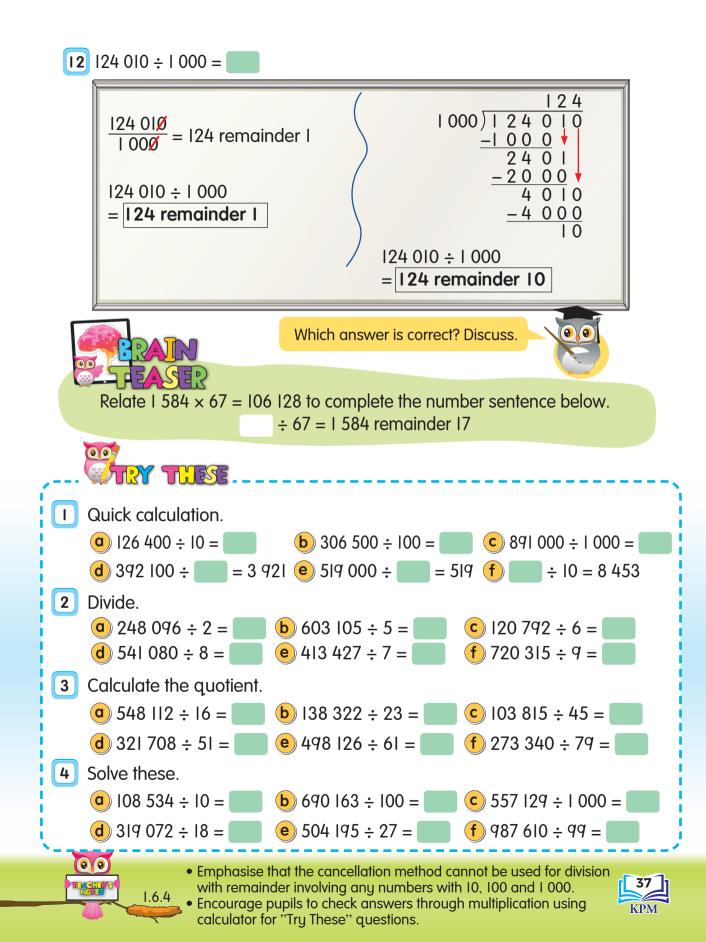
## 9 Calculate the quotient of 459 613 and 38.

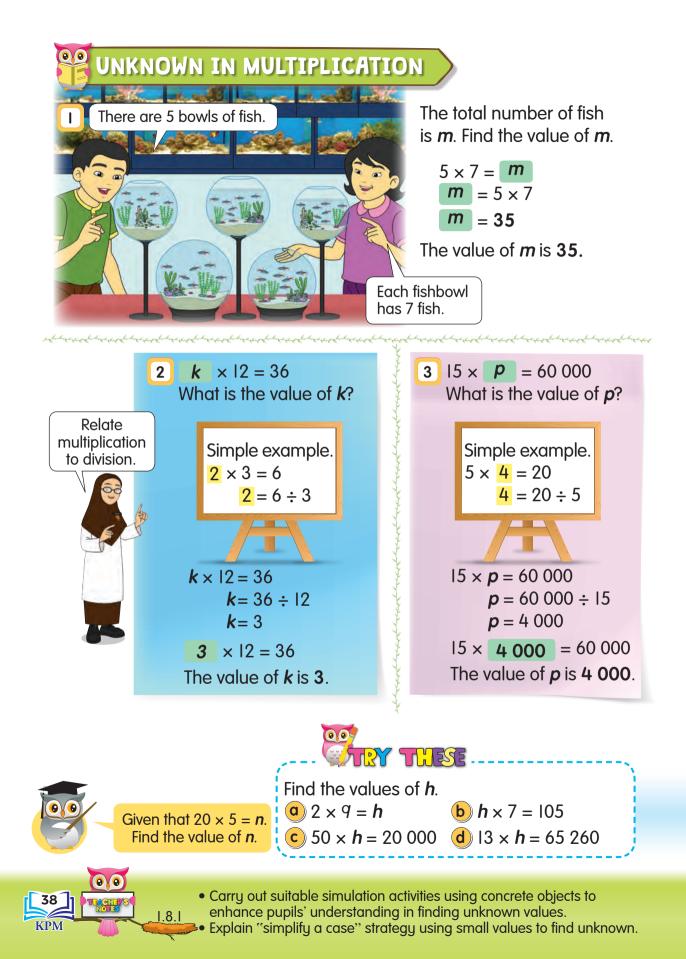
1.6.4

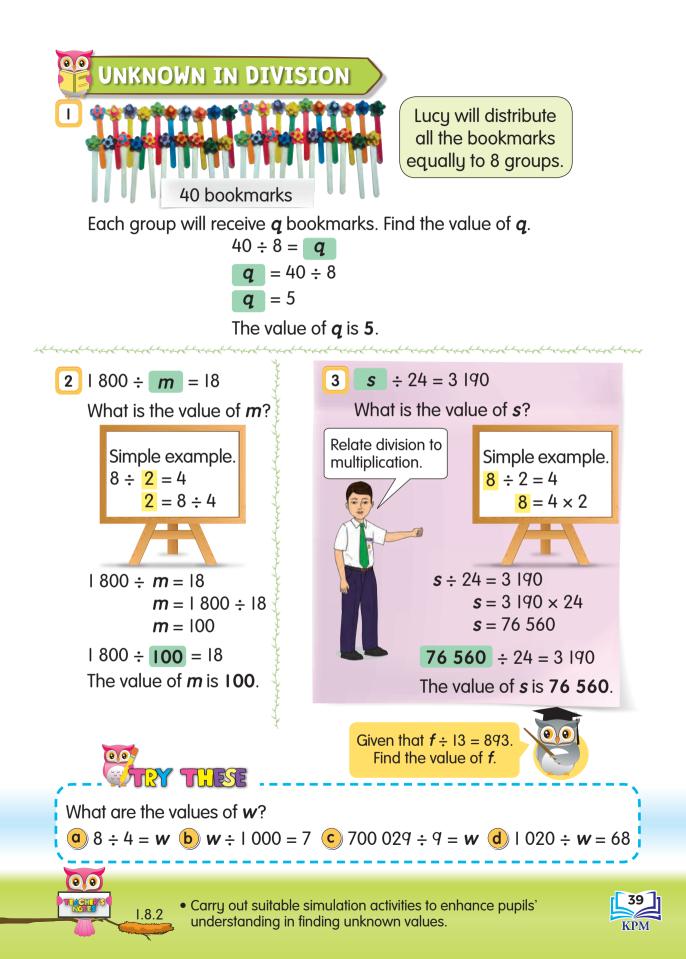
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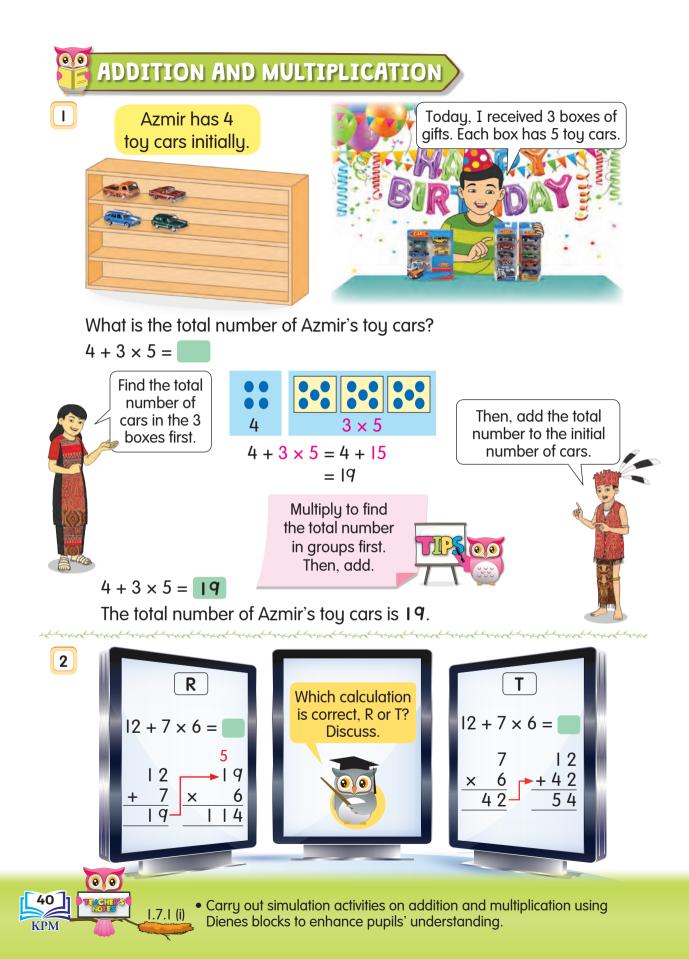


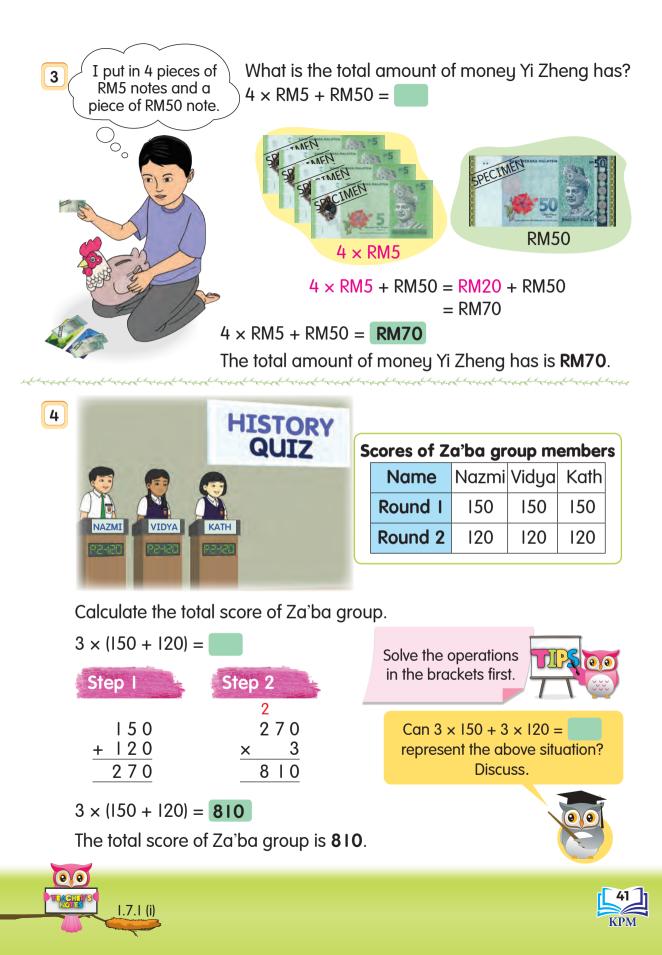
 Remind pupils that the value of the remainder should be less than the divisor.





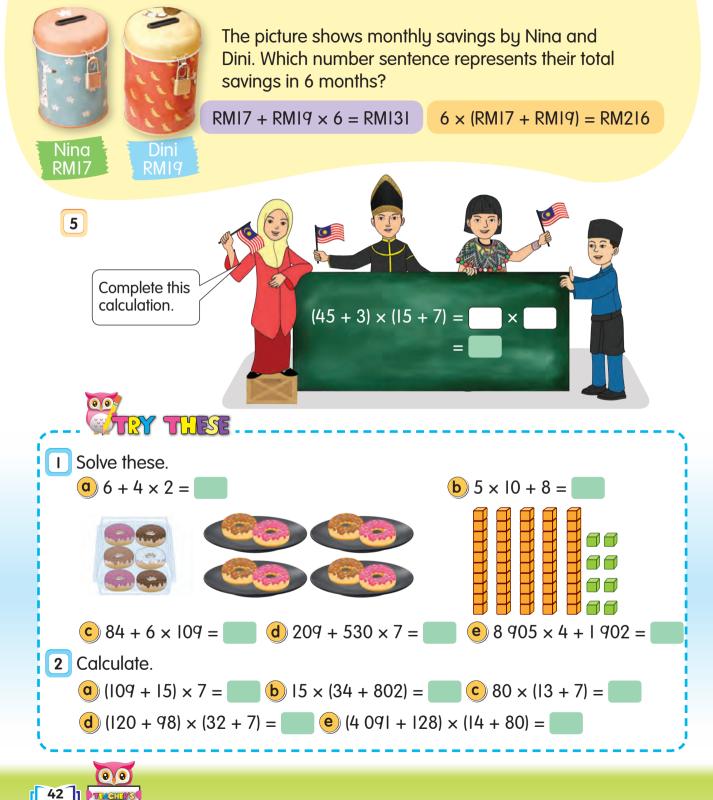




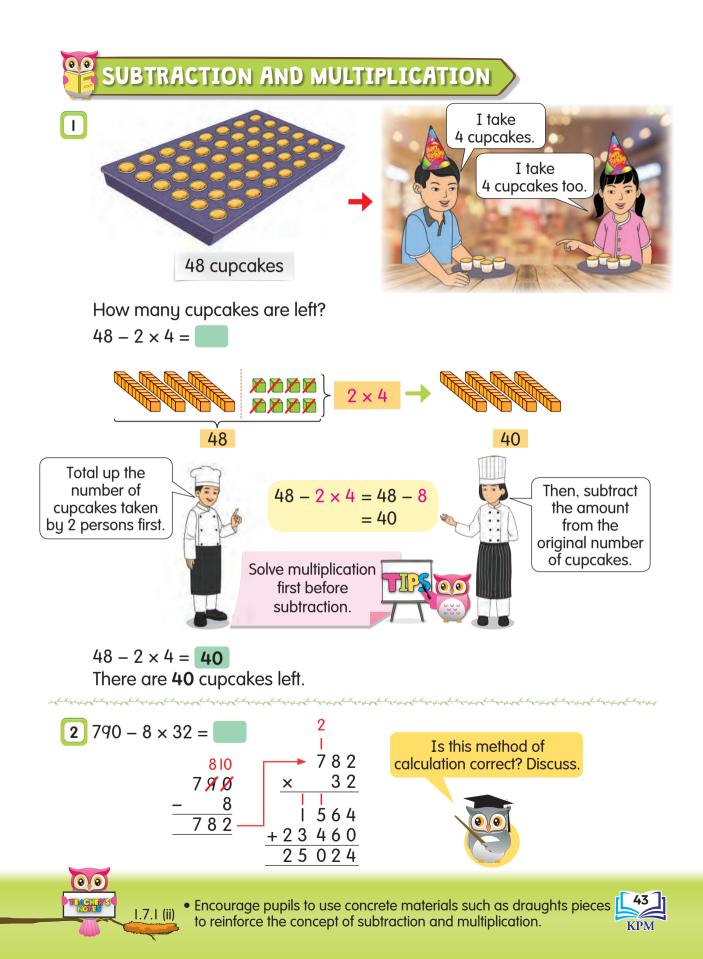


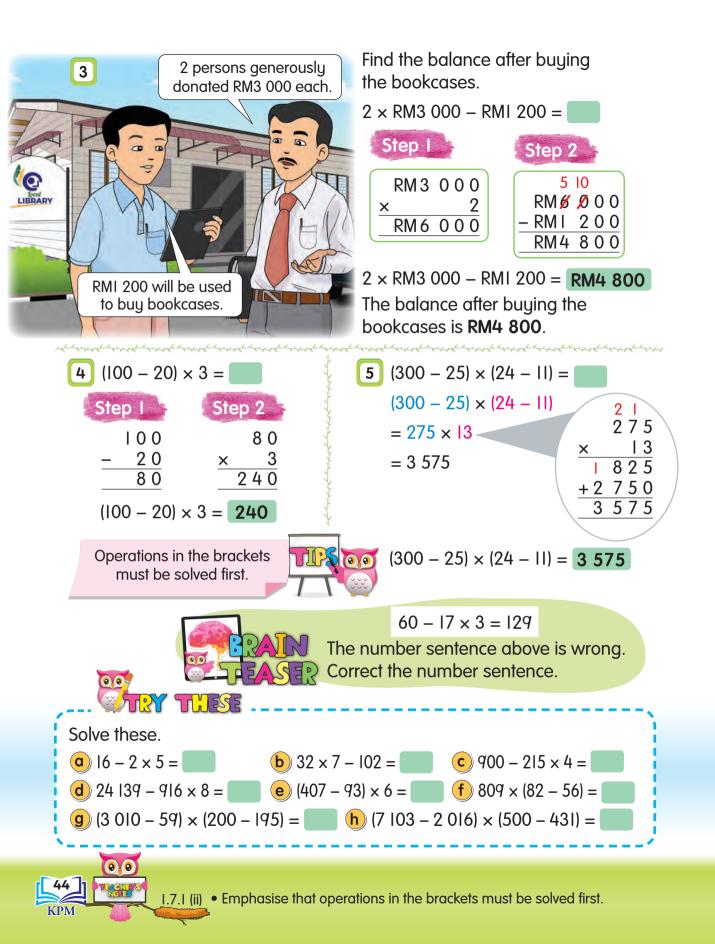


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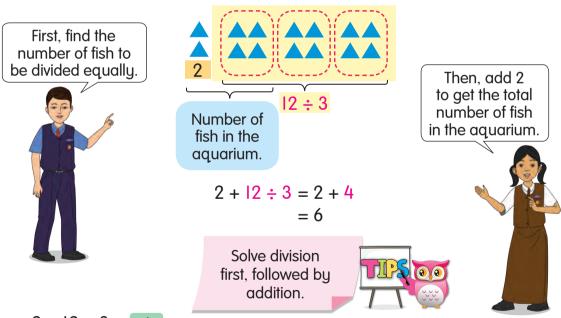
1.7.1 (i) • Modify questions 2d and 2e using smaller values to suit pupils' abilities.





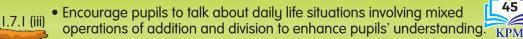


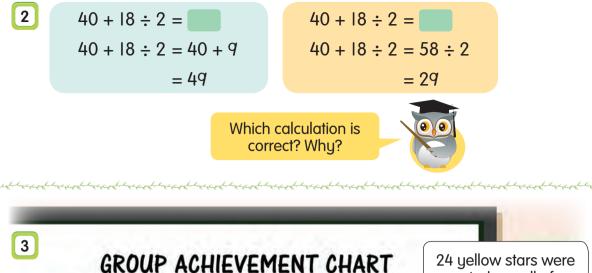
What is the total number of fish in the aquarium?  $2 + 12 \div 3 =$ 



 $2 + 12 \div 3 = 6$ 

The total number of fish in the aquarium is **6**.







What is the total number of stars for group 3?

$$24 \div 6 + 3 =$$

$$24 \div 6 + 3 = 4 + 3$$

24 ÷ 6 + 3 = **7** 

The total number of stars for group 3 is 7.



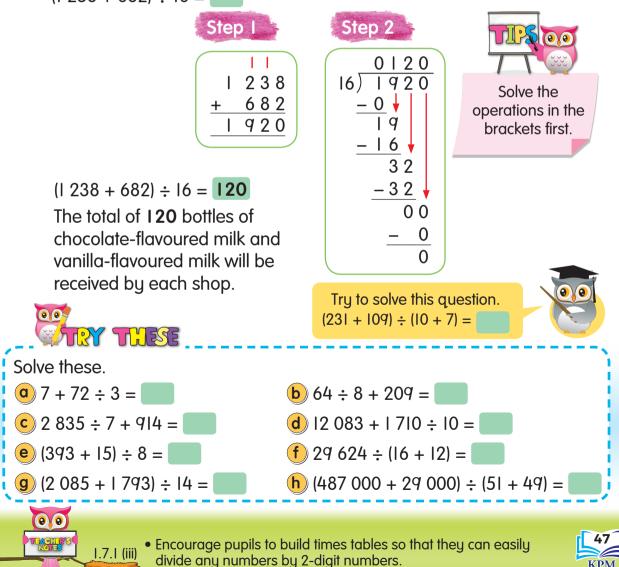
• Carry out simulation activities to explain the concept of division and addition using Dienes blocks.

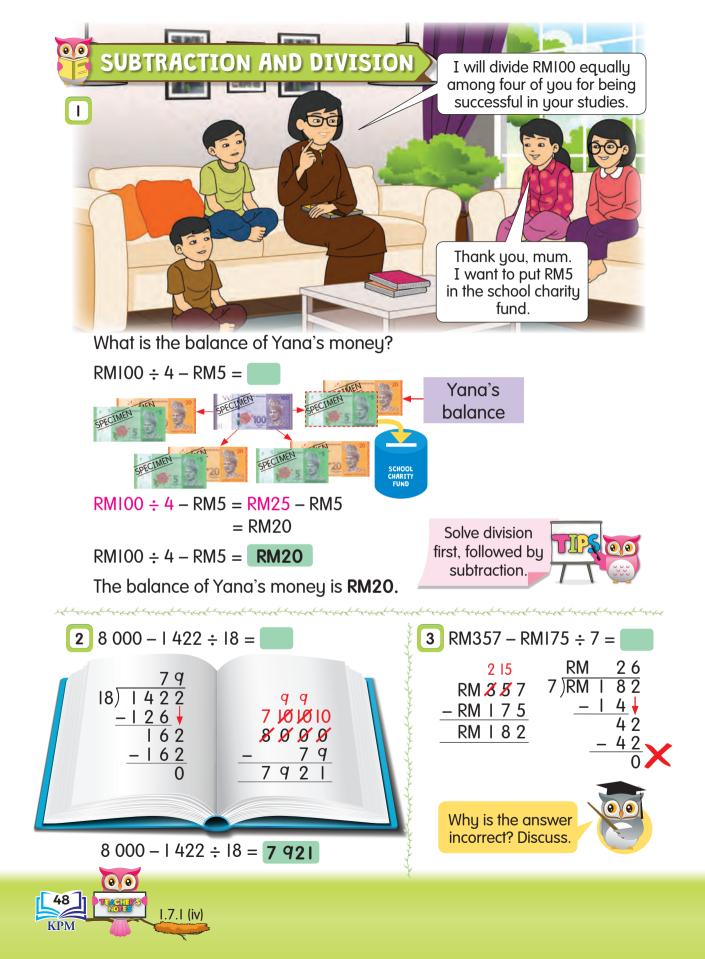
Sir, we still have I 238 bottles of chocolate-flavoured milk and 682 bottles of vanilla-flavoured milk.

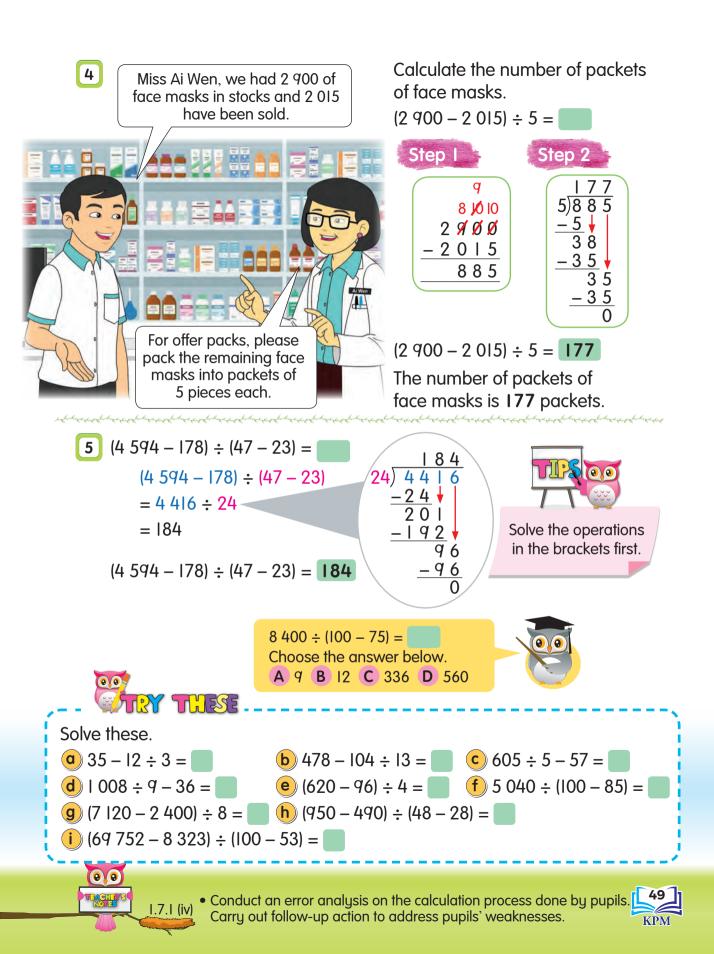


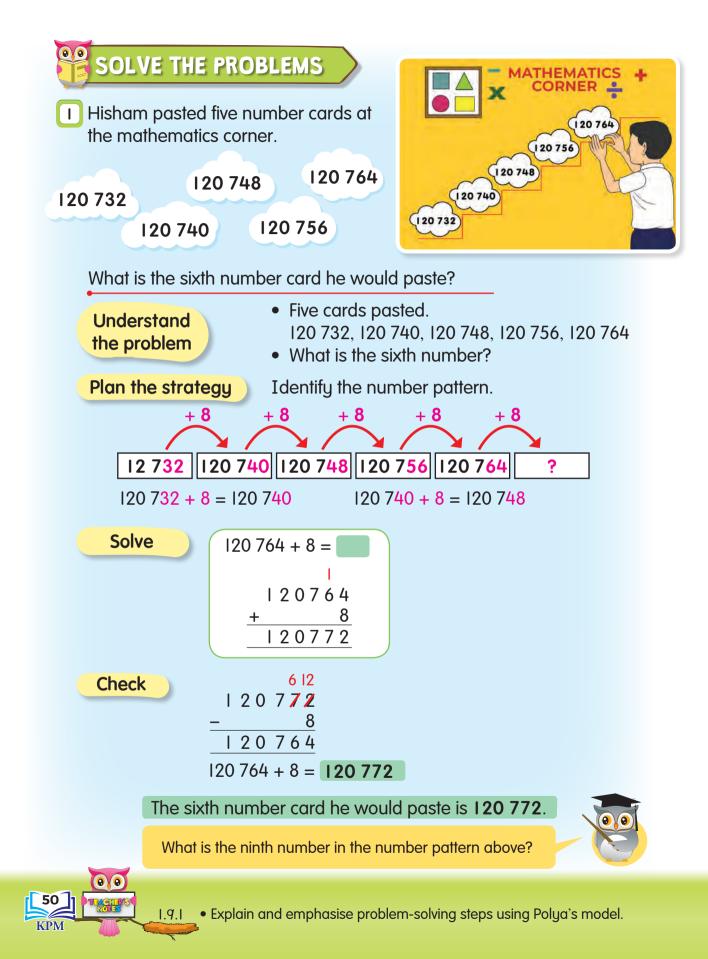
4 What is the total number of bottles of chocolate-flavoured milk and vanilla-flavoured milk will each shop receive?

(| 238 + 682) ÷ |6 =







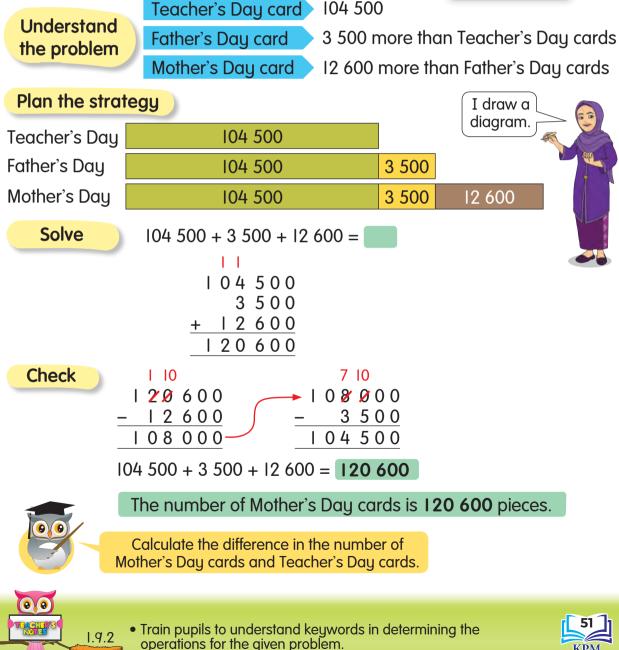


2 The table below shows the number of greeting cards printed for a variety of occasions.

Greeting card	Teacher's Day	Father's Day	Mother's Day
Number of cards (pieces)	104 500		12 600 more than Father's Day cards



What is the number of Mother's Day cards?

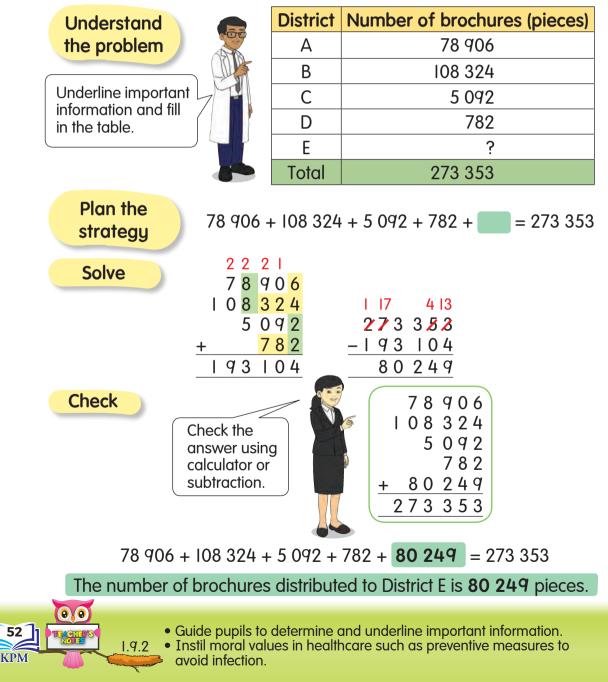


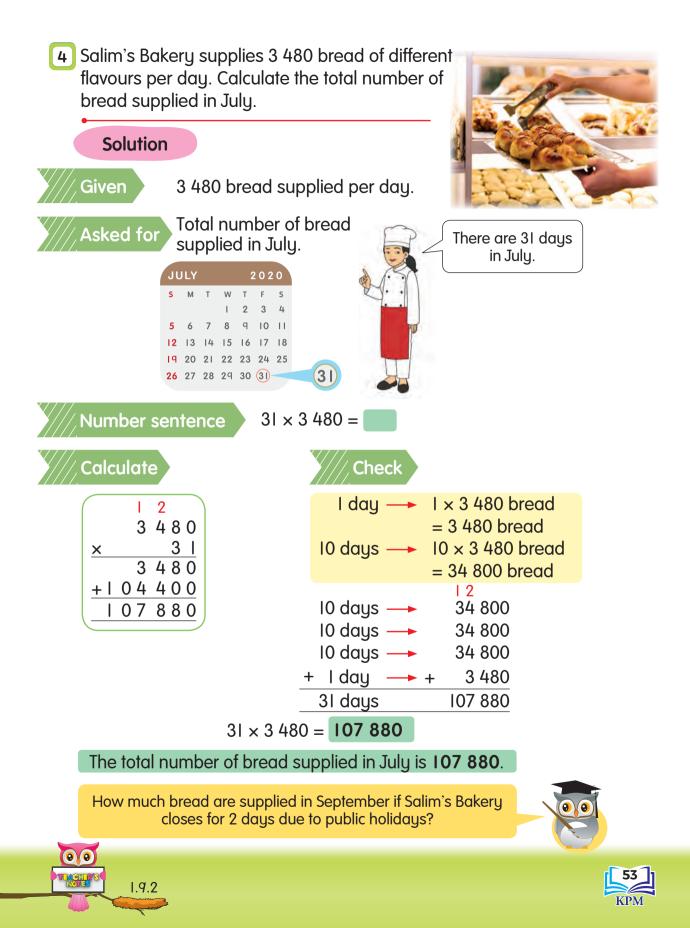
3 The Health Department distributed awareness brochures on COVID-19 to five districts. District A. B. C and D each received 78 906, 108 324, 5 092 and 782 pieces respectively. The total number of brochures distributed to all districts is 273 353 pieces. Calculate the number of brochures distributed to District E.

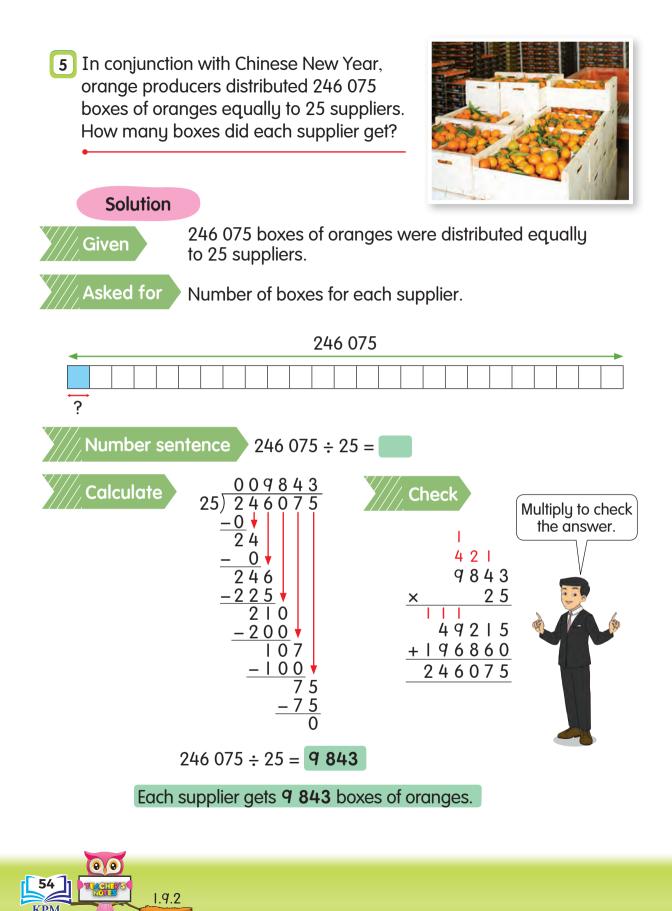
52



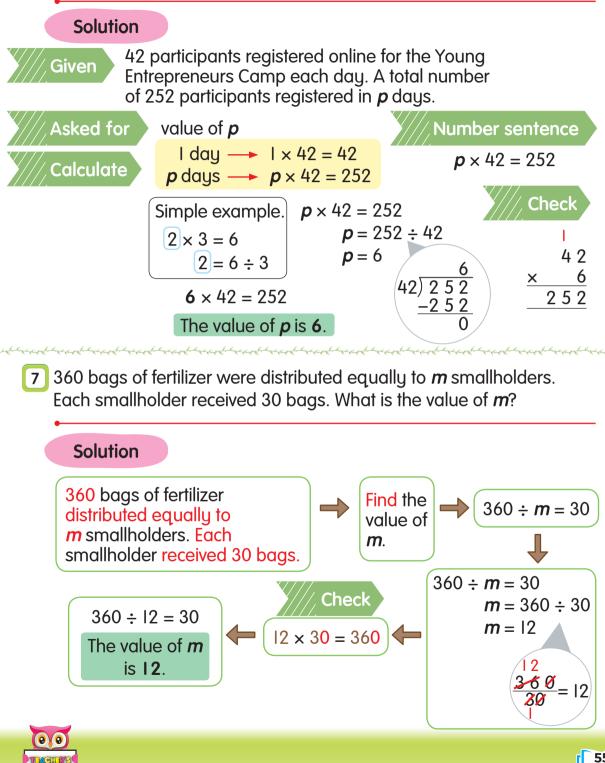
Source: facebook.com/kementerian kesihatanmalaysia/photos







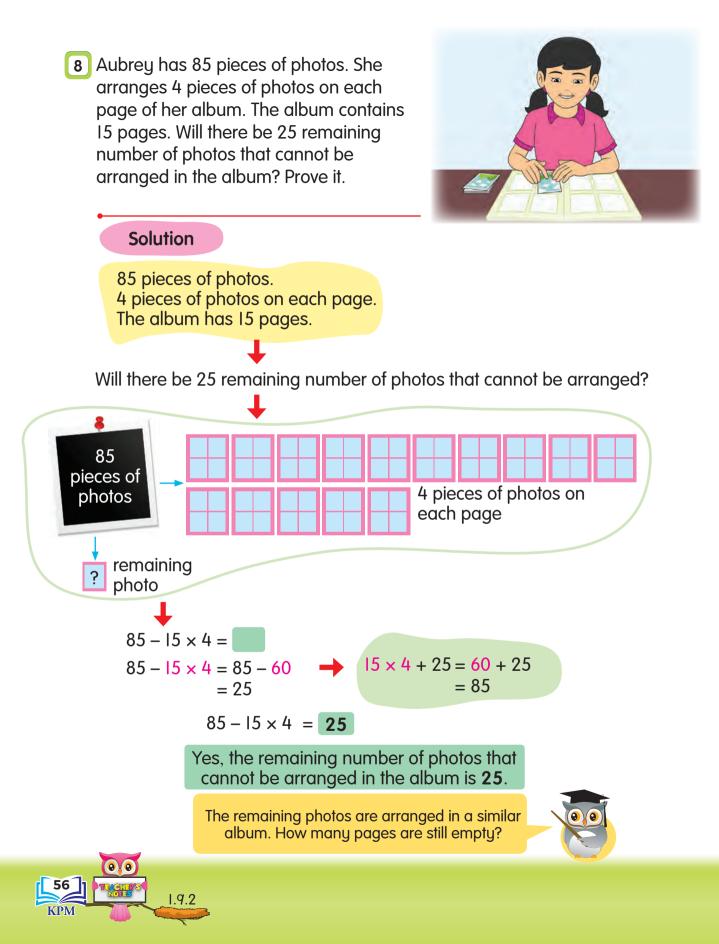
6 42 participants registered online for the Young Entrepreneurs Camp each day. A total number of 252 participants registered in *p* days. What is the value of *p*?





• Use trial and error method to solve problems involving unknown.

1.9.3

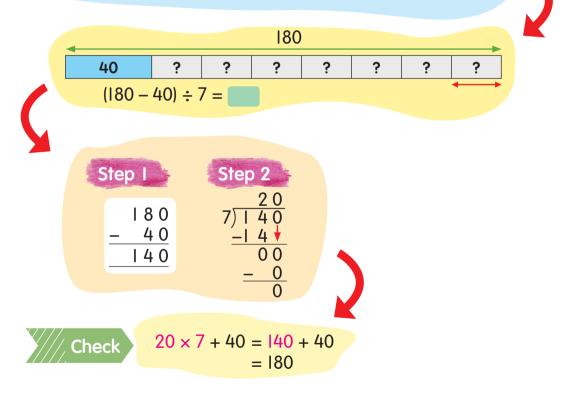


 In conjunction with World Children's Day, zoo authorities gave out 180 free tickets.
 40 tickets were given to school A. The remaining tickets were distributed equally among 7 kindergartens. How many tickets did each kindergarten receive?



## **Solution**

- 180 free tickets given out.
- 40 tickets given to school A.
- Remaining tickets distributed equally to 7 kindergartens.
- Number of tickets received by each kindergarten.



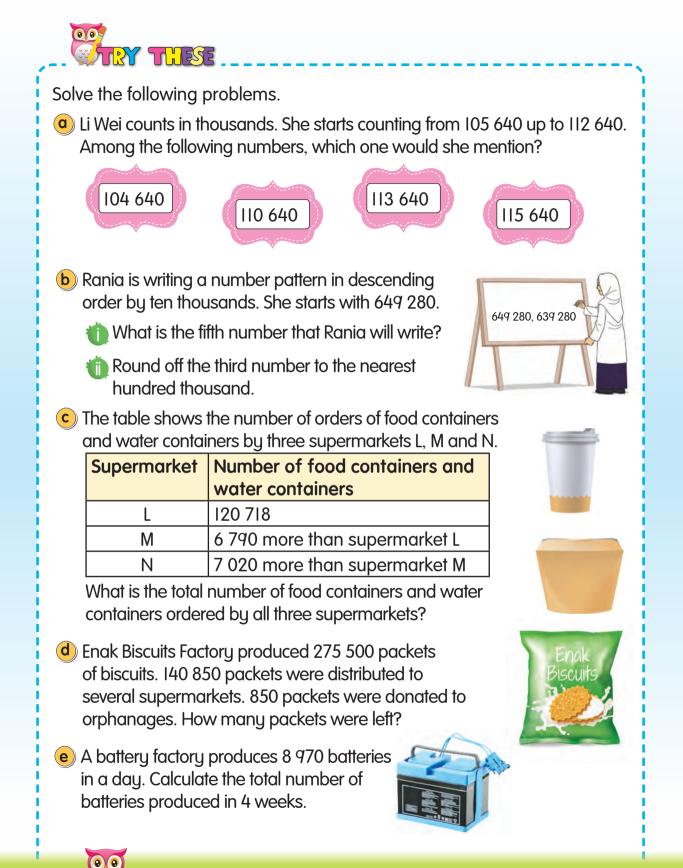
 $(180 - 40) \div 7 = 20$ 

00

1.9.2

The number of tickets received by each kindergarten is **20**.





• Provide more questions that are simple and interesting according to pupils' abilities.

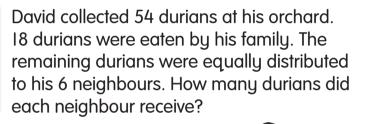
1.9.1

.9.2

58

KPM

- f In conjunction with Flag Day of St. John Ambulance Malaysia, 420 689 stickers were distributed equally to 97 schools. How many stickers were received by each school?
- 9 Puan Ashwani fills *w* pieces of chocolate equally into 28 jars. Each jar has 60 pieces of chocolate. What is the value of *w*?
- (h) 15 papaya seedlings are planted in a row. There are k rows of seedlings. The total number of seedlings is 180. What is the value of k?



- (j) A school has I 450 girls and 917 boys. Each pupil is given 5 game tokens in conjunction with World Environment Day. What is the total number of tokens given to all the pupils in the school?
- Bella has RM4 530 as savings. Her father equally distributes RM150 to Bella and 2 of her siblings. How much money does Bella have now?
- I Jamily withdraws RMI 200 from his salary account. He spends RM450. The balance is placed equally into 6 envelopes for his children's tuition fees. How much money is in each envelope?



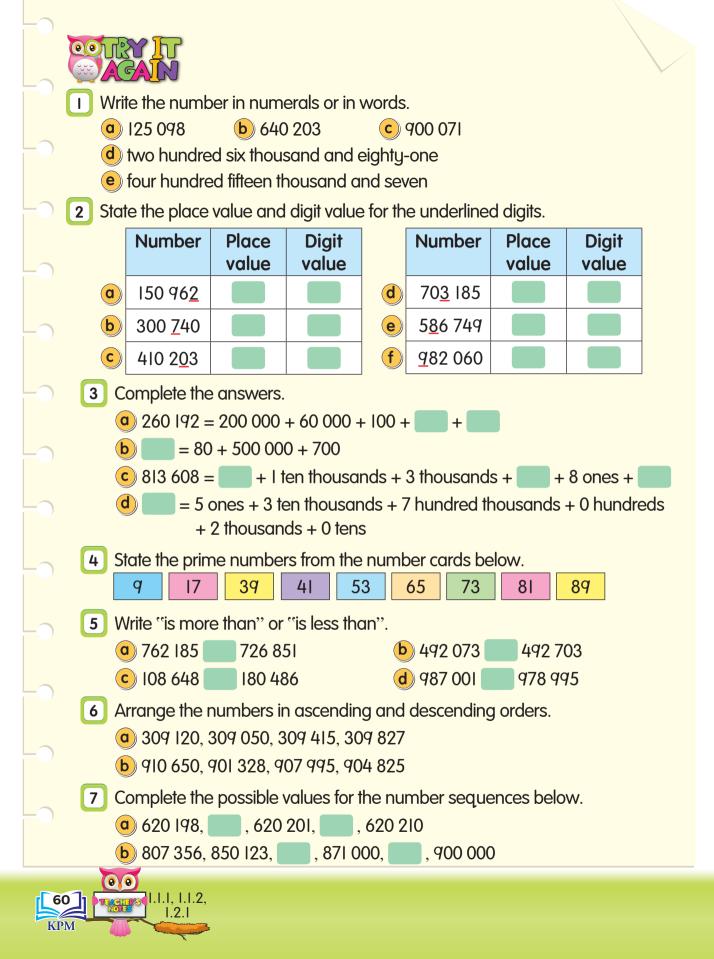


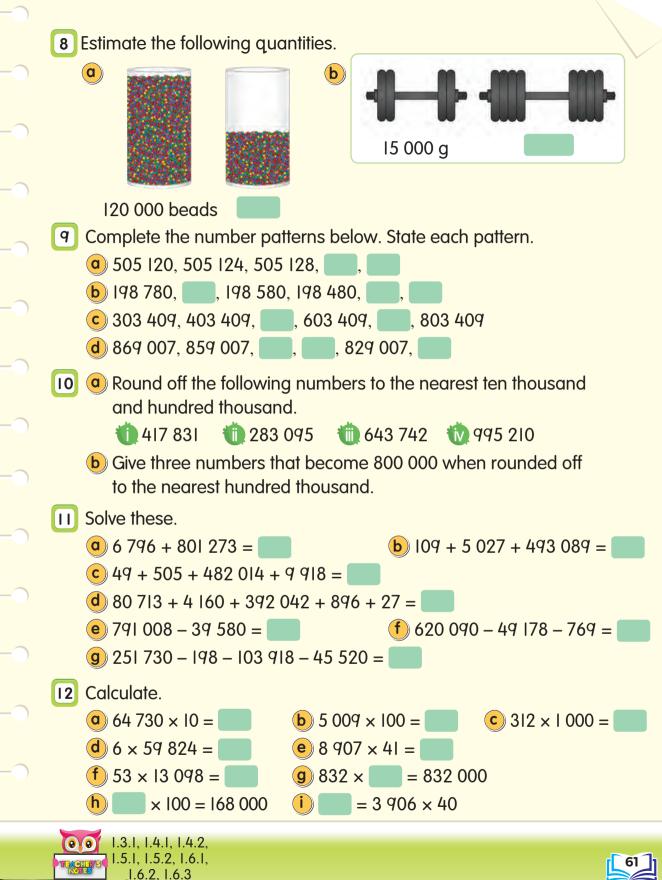


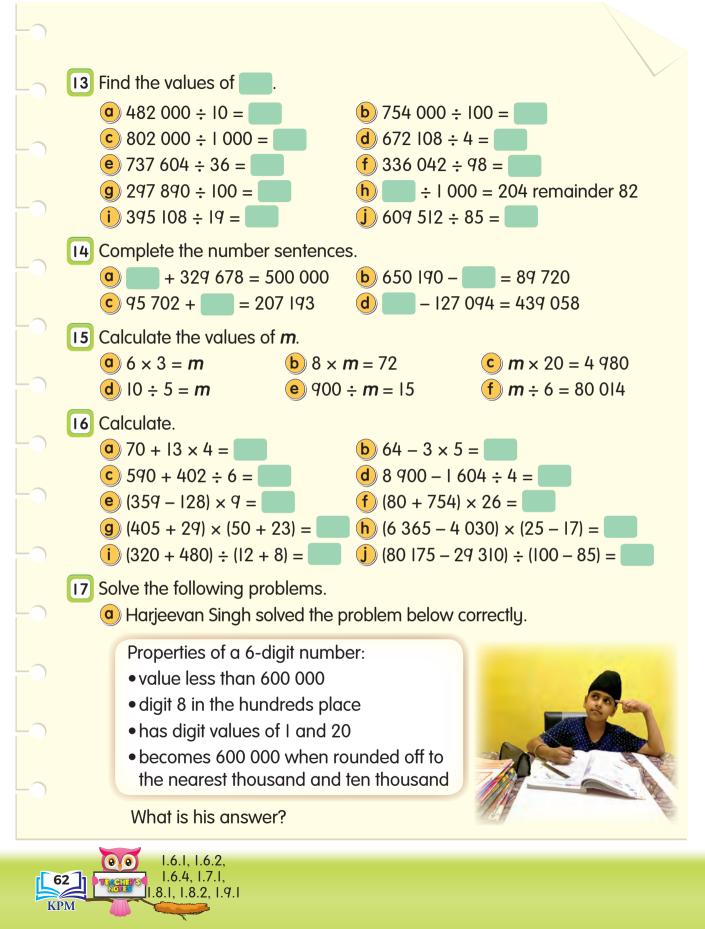












b The table shows the number of pilgrims who performed *umrah* in 2019.

Country	Malaysia	Egypt	Turkey	Pakistan	Indonesia
Number of	176 661	165 553	131 812	819 119	534 137
pilgrims					

Source: https://rb.gy/tqb0vg

🚺 State the country with the highest number of pilgrims.

🗓 Find the total number of pilgrims from Malaysia, Egypt and Turkey.

How many more is the number of pilgrims from Pakistan compared to Indonesia?

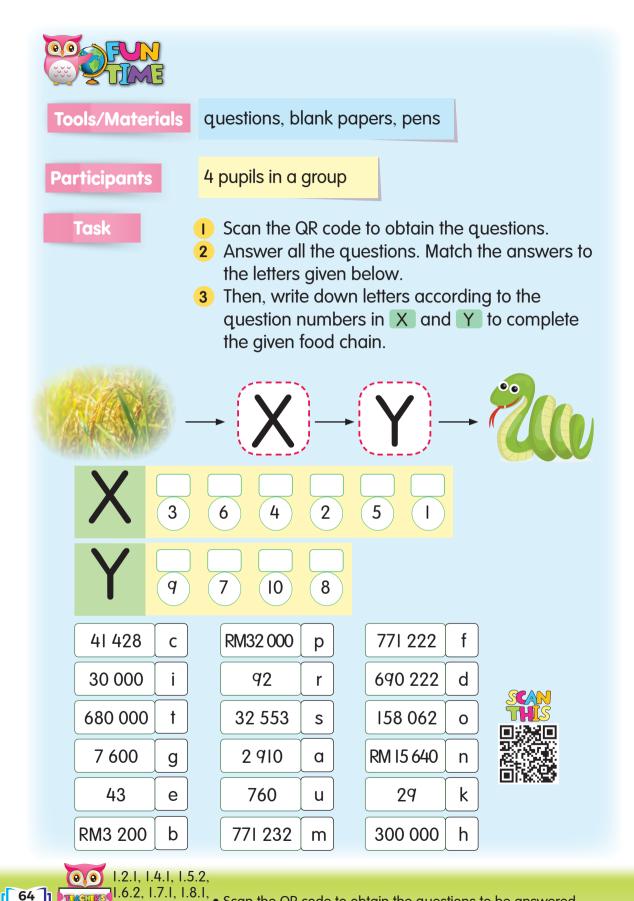
c A factory produces 132 780 fishballs per day.
1 How many fishballs can be produced in 4 days?

- The fishballs produced in one day are packed in equal amounts. Each packet has 20 fishballs. How many packets are produced altogether?
- **d** Merias Cake Shop sells 45 cakes per day. In *y* days, 540 cakes are sold. What is the value of *y* ?
- Puan Sherry divides 42 curry puffs into *m* packets to be frozen. Each packet is filled with 7 pieces of curry puffs. What is the value of *m*?
- f There are 15 packets of vegetable seeds. 5 packages of seeds have just been received. Each package has 30 packets of seeds. Write a number sentence to find the latest total number of packets of seeds. Then, solve it.
- g A nursery delivered 3 lorries of flower pots to a resort. Each lorry transported 45 flower pots. During the journey, 8 pots cracked. How many pots did not crack?

h Encik Suki and his wife each withdraw RMI 800 and RMI 200 respectively. They divide the total amount equally for school expenses of their 4 children. Calculate the school expenses of one child.



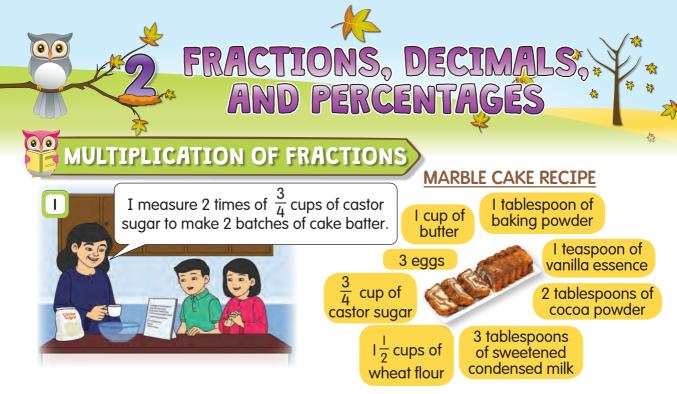




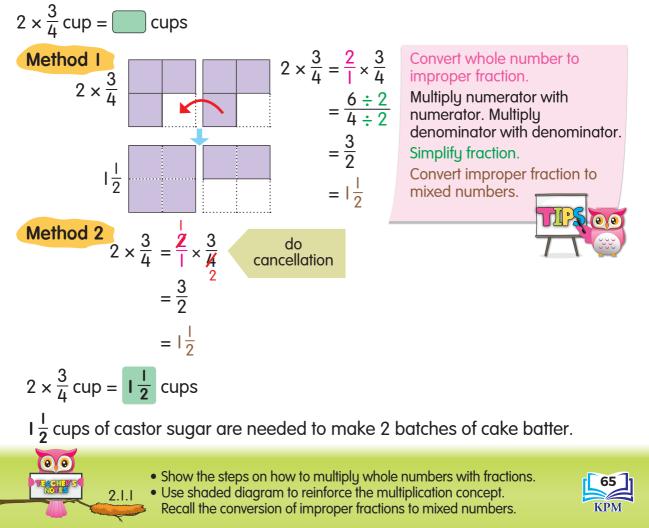
Scan the QR code to obtain the questions to be answered.
Vary questions to make a new food chain.

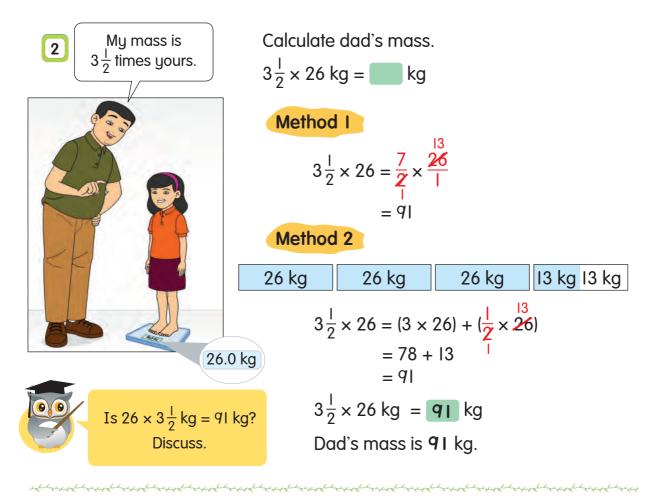
1.8.2, 1.9.2

KPM



How many cups of castor sugar are needed to make 2 batches of cake batter?





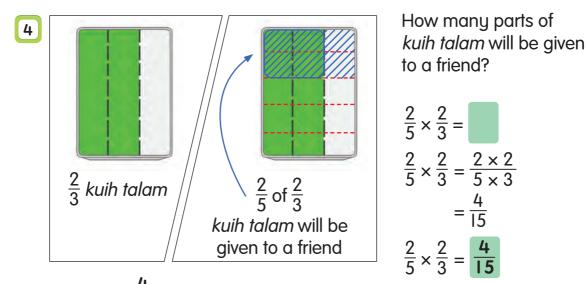
3 
$$16 \times 5\frac{q}{10} =$$
  
 $16 \times 5\frac{q}{10} = 16 \times \frac{5q}{10}$   
 $= \frac{472}{5}$   
 $= 94\frac{2}{5}$   
 $= 94\frac{2}{5}$   
 $= \frac{-0}{47}$   
 $= 22$   
 $-20$   
 $2$ 

$$16 \times 5\frac{q}{10} = 94\frac{2}{5}$$

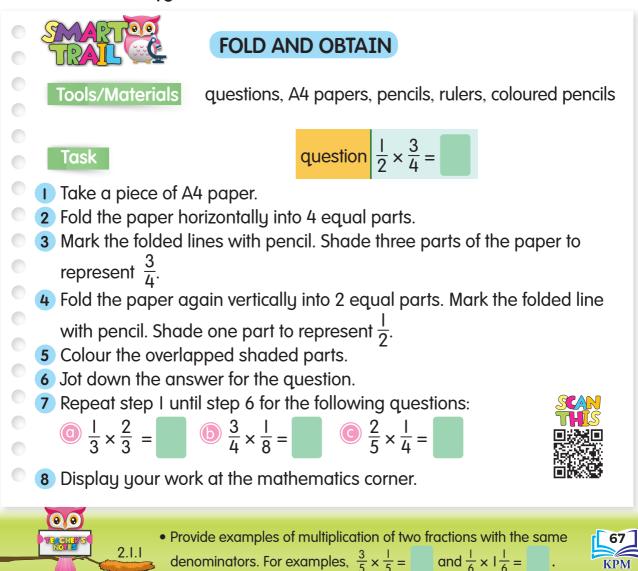
2.1.1

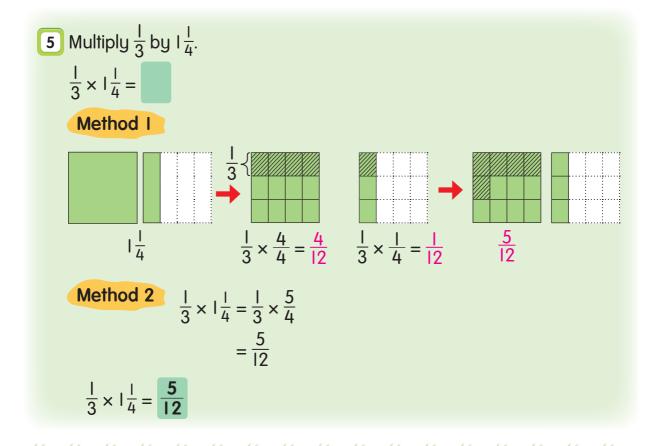
66

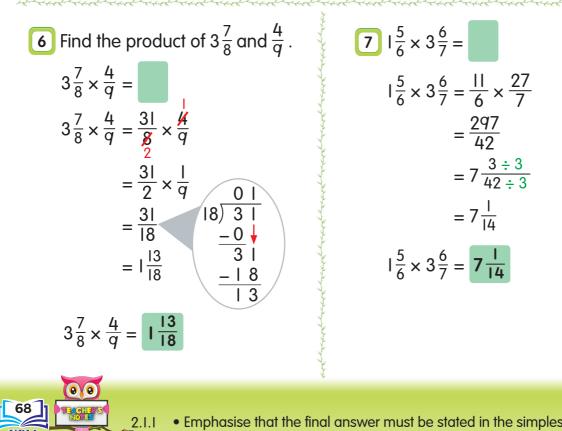
 Recall the methods to determine whole numbers, denominators, and numerators when dividing to convert improper fractions to mixed numbers.



 $\frac{4}{15}$  parts of *kuih talam* will be given to a friend.

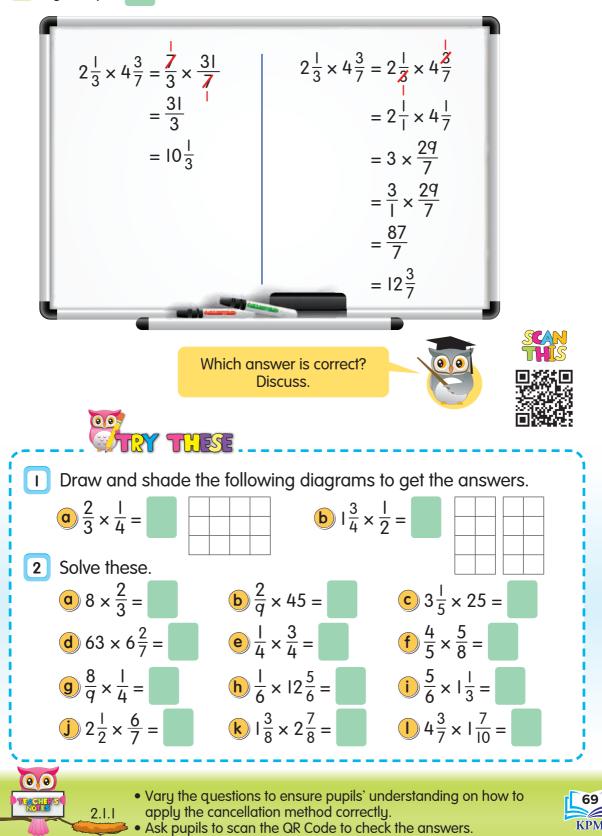


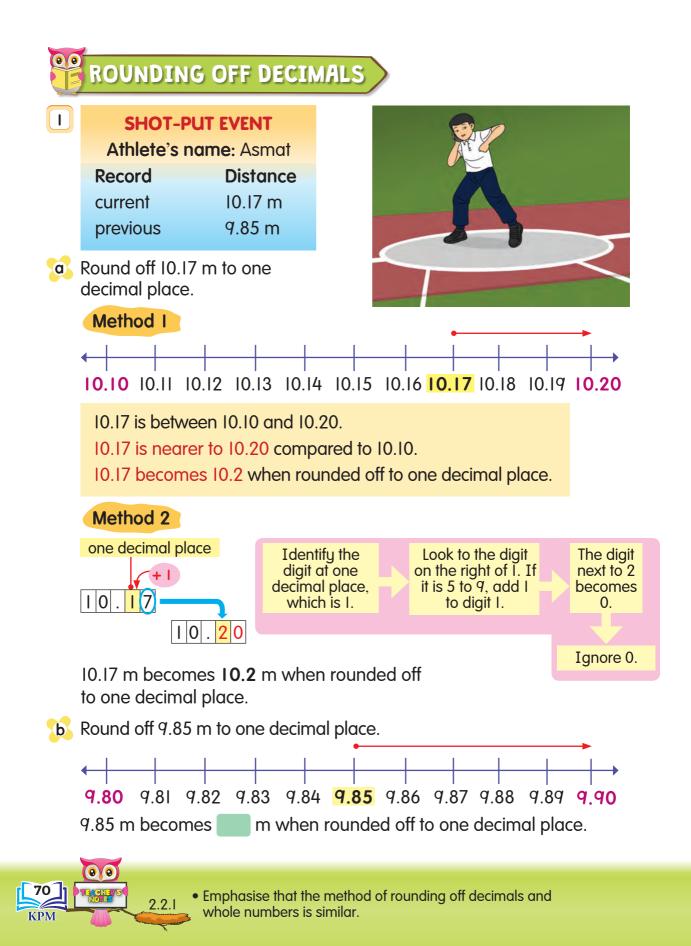




• Emphasise that the final answer must be stated in the simplest form.

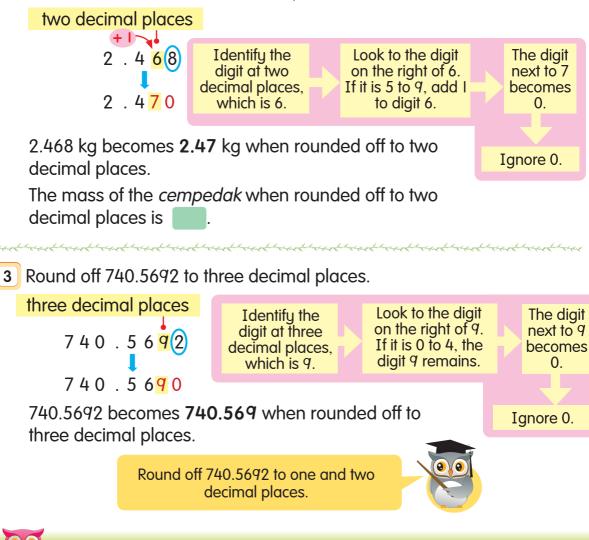
# **8** $2\frac{1}{3} \times 4\frac{3}{7} =$







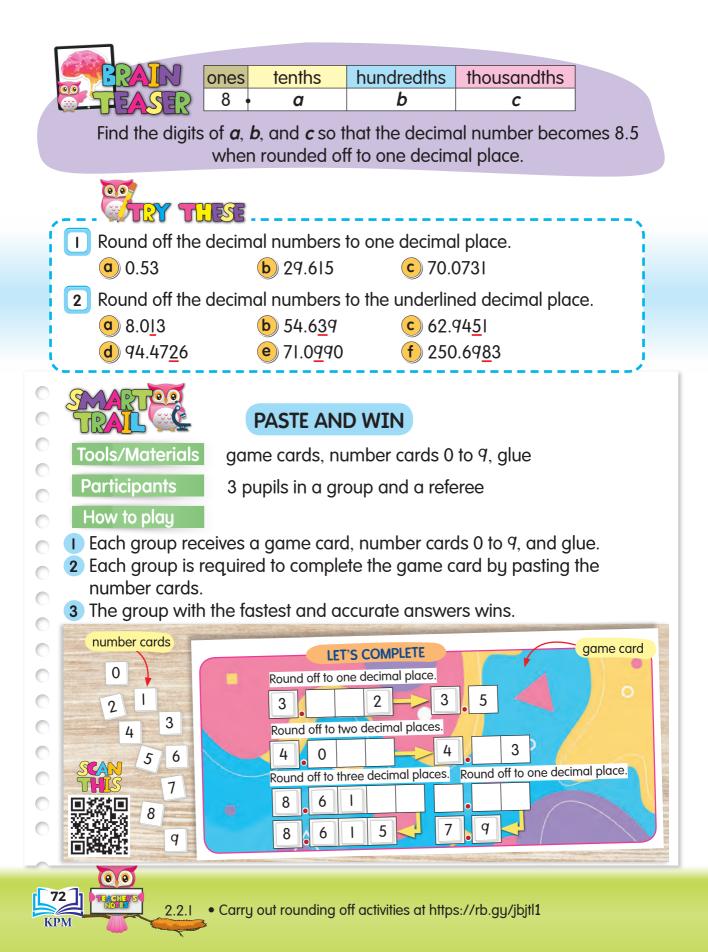
Based on the picture above, state the mass of the *cempedak* when rounded off to two decimal places.

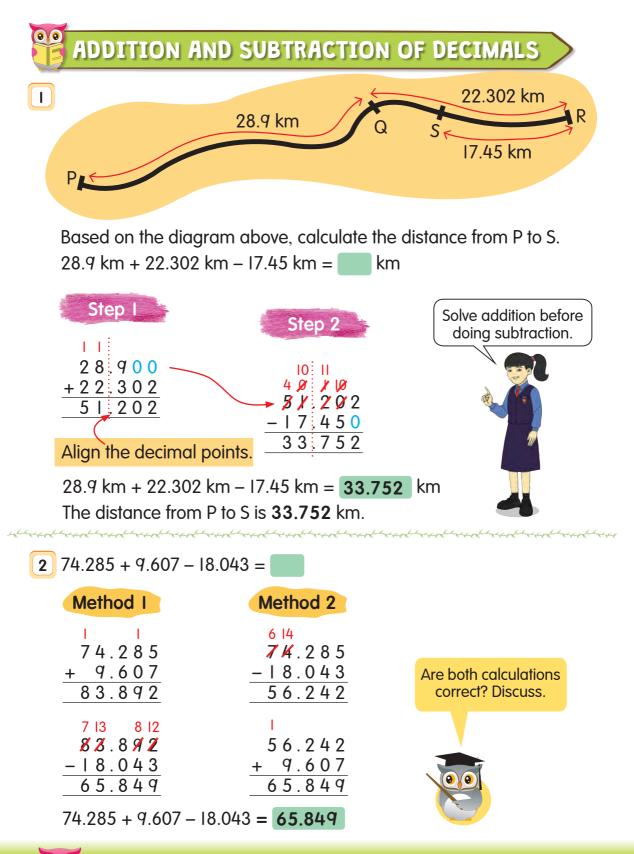


• Ask each pupil to write one decimal number with four decimal places and round it off to one, two, and three decimal places.

22



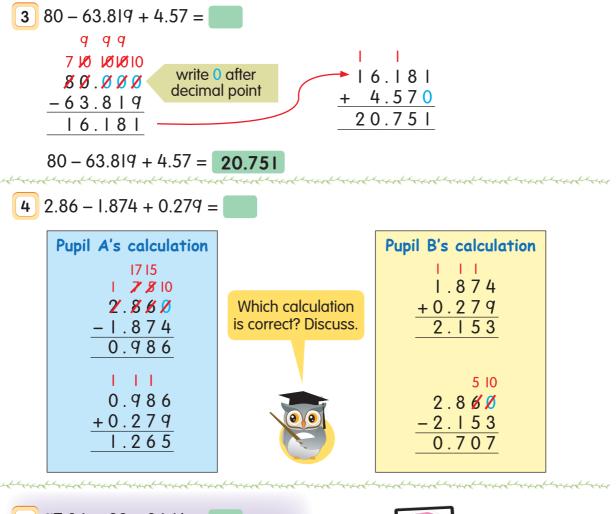


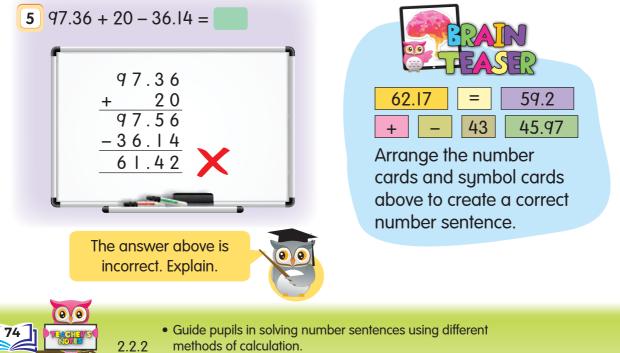


Relate mixed operations involving addition and subtraction of decimals to daily life situations such as sports event scores, daily allowances, and expenses.
Carry out group activities and ask pupils to present their calculations.

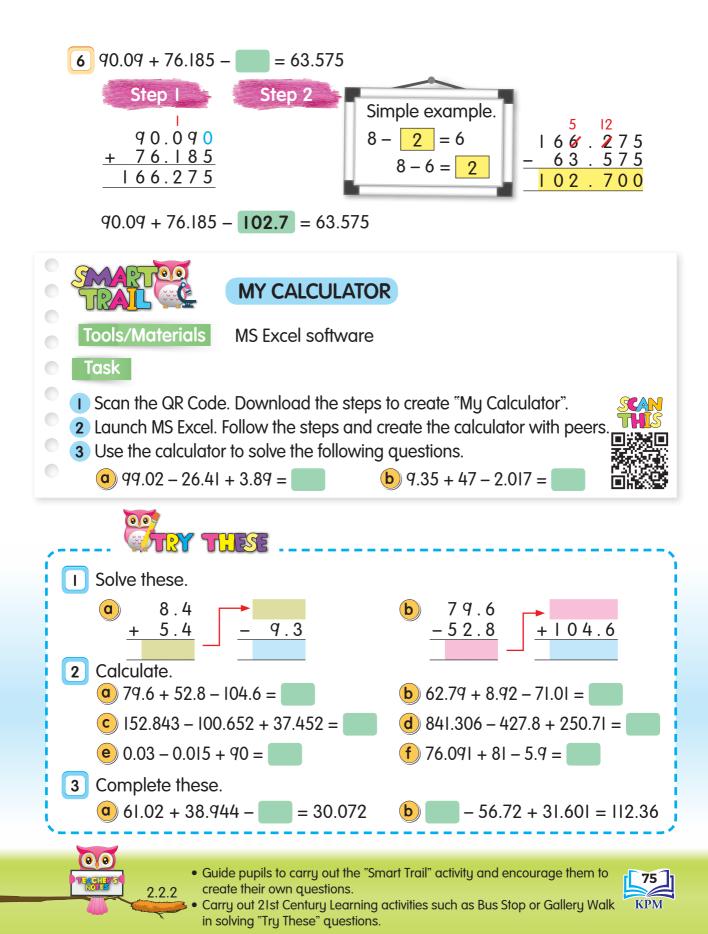
2.2.2

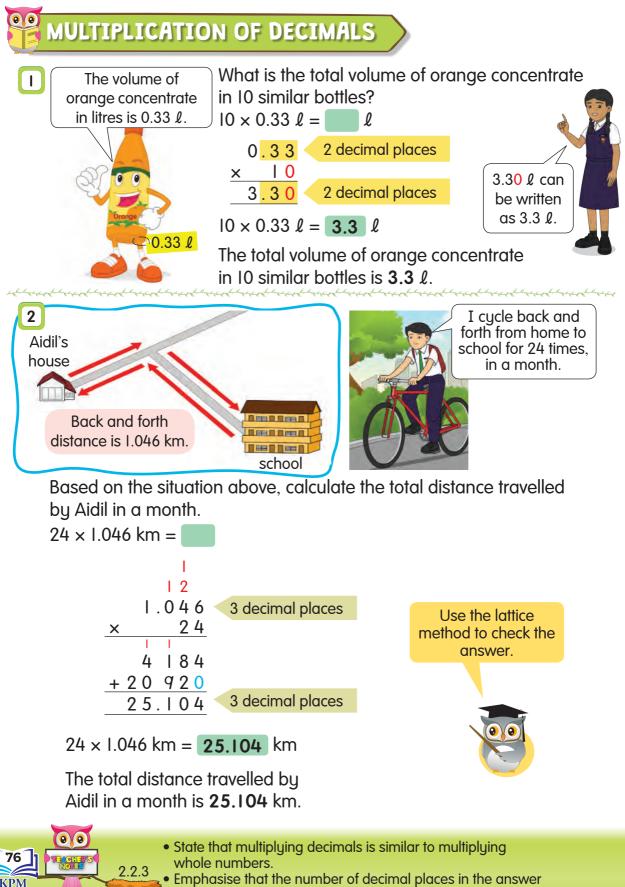




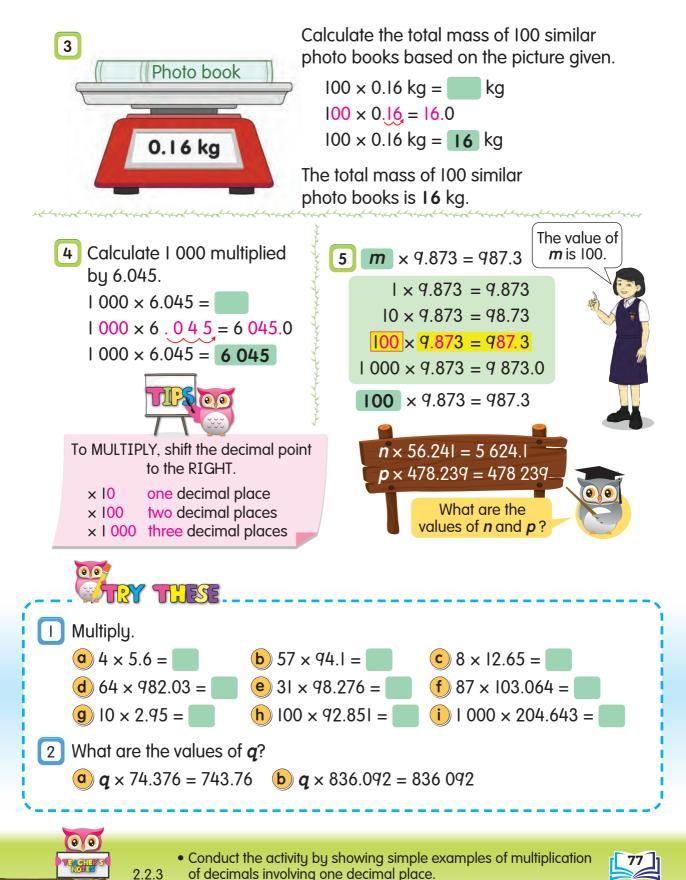


• Analyse pupils' errors to enhance their understanding.

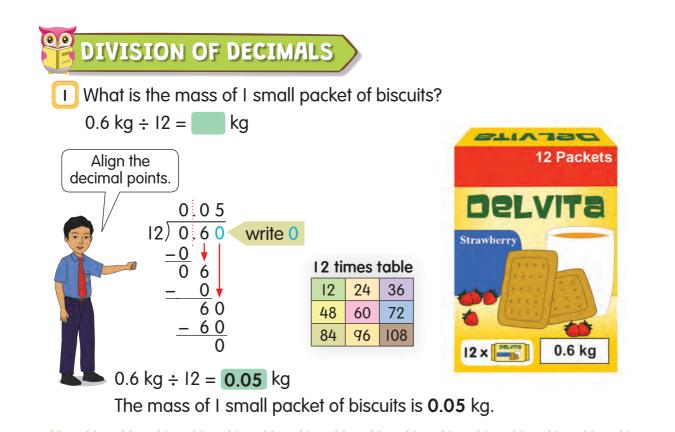




must be the same as in the question.



Encourage pupils to vary the calculation methods to multiply.



2 Find the volume of watermelon juice in each cup sold.

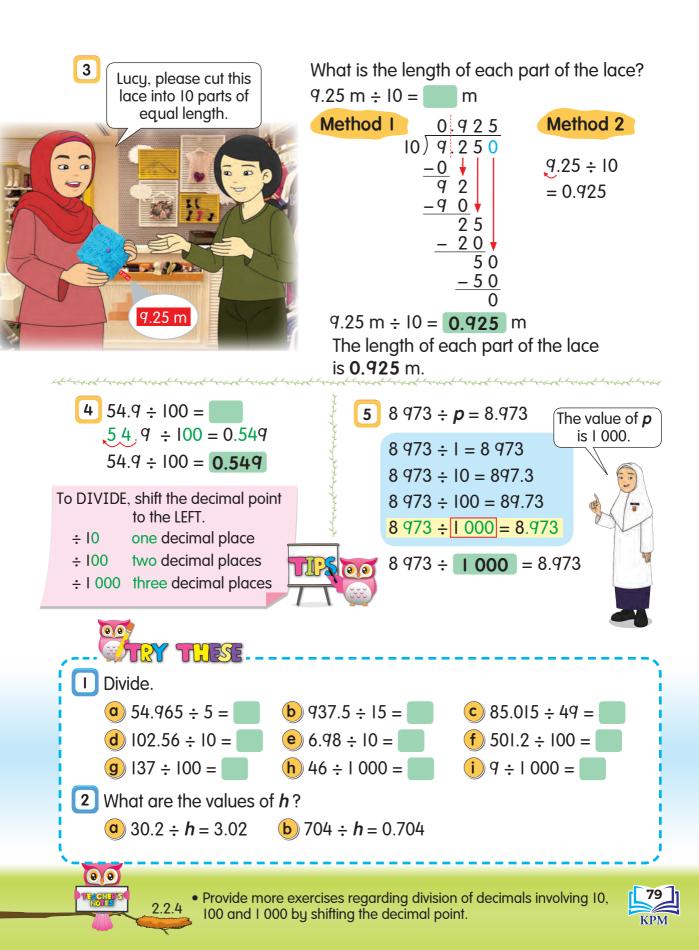
We sold 60 cups of watermelon juice of similar size.	$22.5 \ \ell \div 60 =$ $\begin{array}{c} 00 \ 375 \\ 60 \ 22 \ 50 \ 0 \\ \hline -0 \ 22 \\ -0 \\ 22 \\ \hline -0 \\ 22 \\ 5 \\ -18 \\ 4 \\ 5 \\ -4 \\ 20 \\ \hline 3 \\ 0 \end{array}$	ℓ 60 times table × 1 60 × 2 120 × 3 180 × 4 240 × 5 300 × 6 360 × 7 420 × 8 480 × 9 540
	$\frac{-300}{0}$	× 9 540

 $22.5 \ \ell \div 60 = 0.375 \ \ell$ 

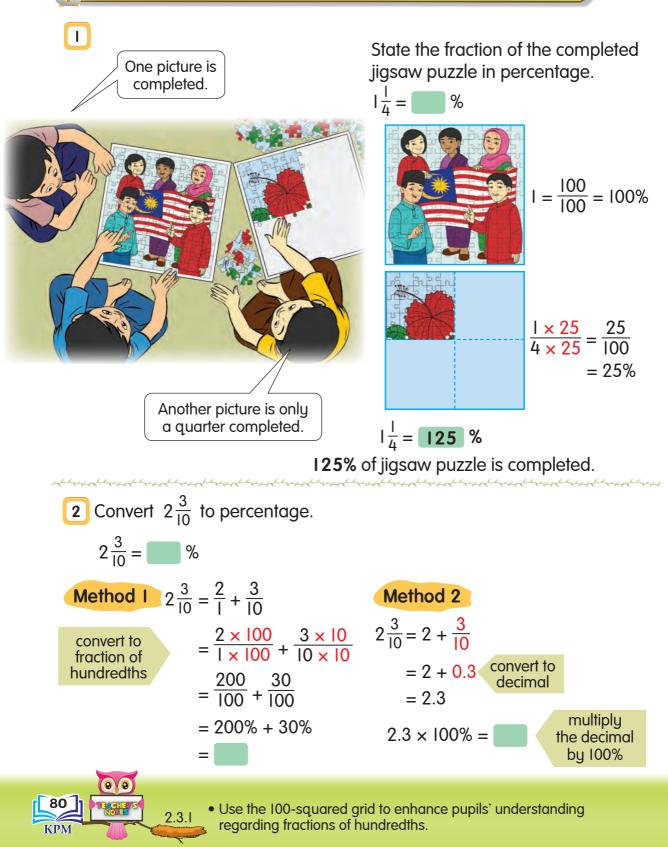
The volume of watermelon juice in each cup sold is  $0.375 \ l$ .



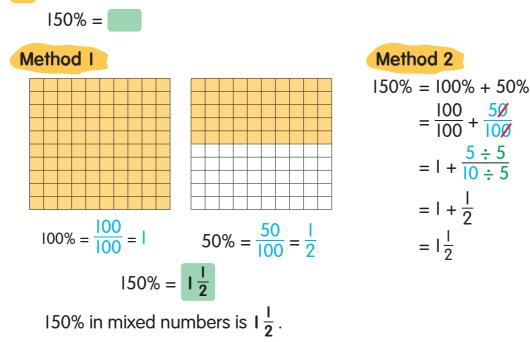
- Conduct the activity by showing simple examples of division involving decimals with a single digit.
- Guide pupils to use times table if necessary.
- Encourage pupils to check their answers using multiplication.



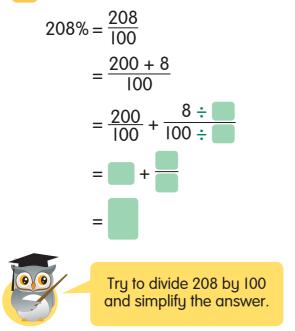
# CONVERT MIXED NUMBERS AND PERCENTAGES



3 State 150% in mixed numbers.



4 Convert 208% to mixed numbers.

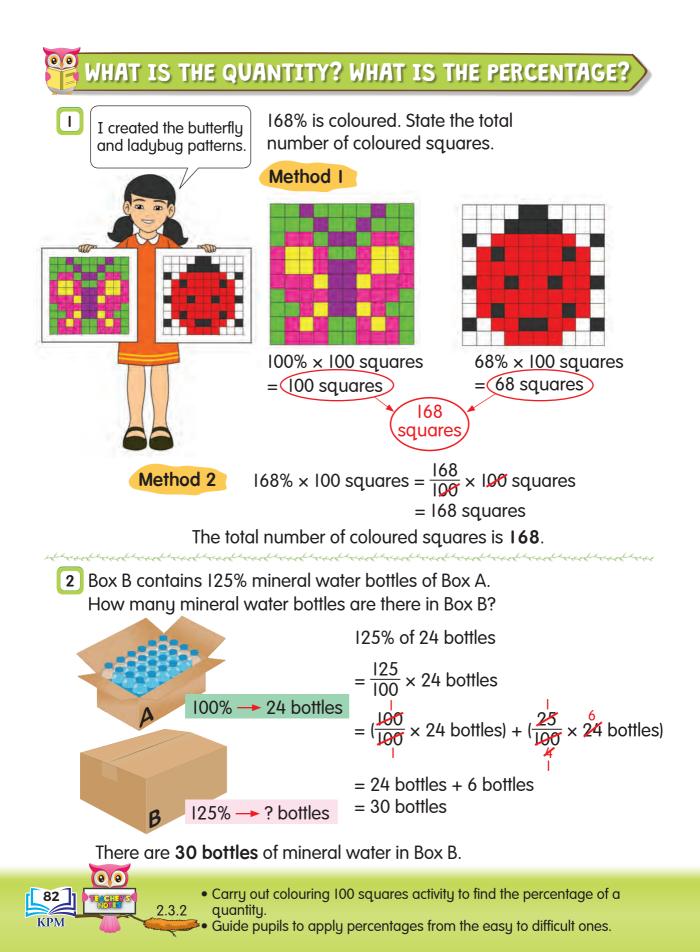


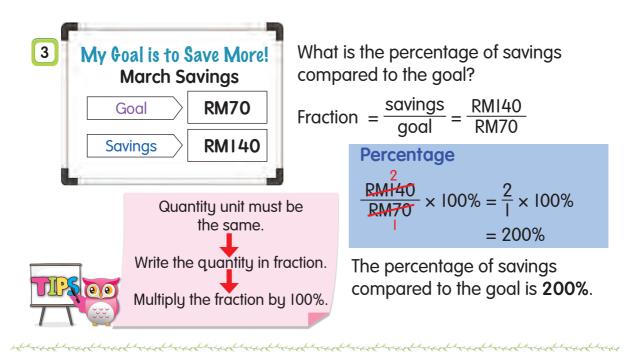
2.3.

-								
	Complete Mixed numbers	Percentages						
	$\left \frac{q}{10}\right $							
		180%						
	$6\frac{3}{4}$							
		304%						
	$5\frac{2}{5}$							
		205%						
<b>`_</b>			_/					

Train pupils to remember the factors of fractions of hundredths which are, 5 and 20, 4 and 25, 2 and 50 as well as 10 and 10.
Carry out a quiz on converting fractions of hundredths to mixed numbers spontaneously.



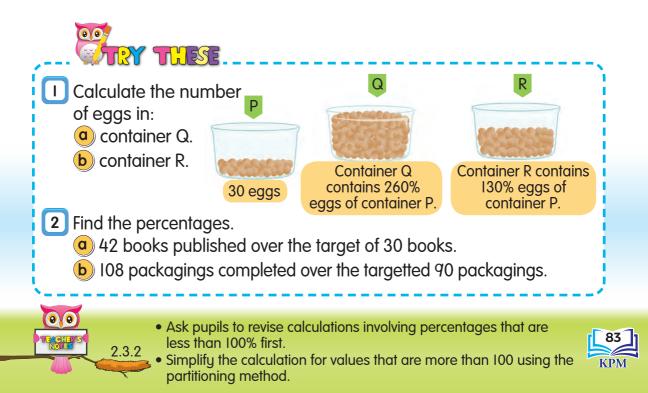




4 The initial production of face mask is 80 boxes. If the order is 180 boxes, calculate the percentage of the orders compared to the initial production.

$$\frac{180}{80} \times 100\% = \frac{180}{80} \% = 225\%$$

The percentage of orders compared to the initial production is **225%**.



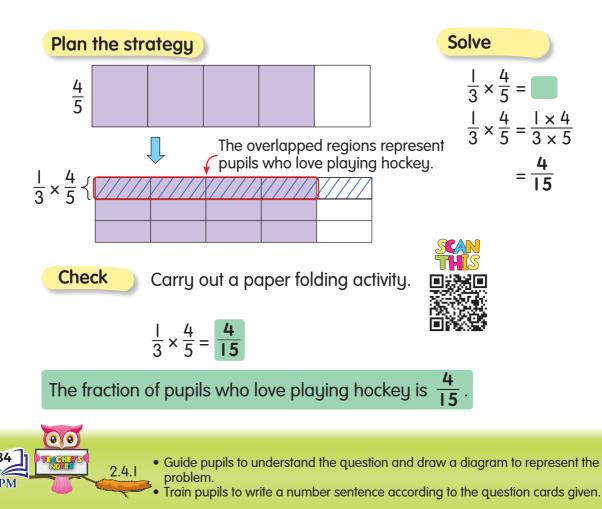
## SOLVE THE PROBLEMS

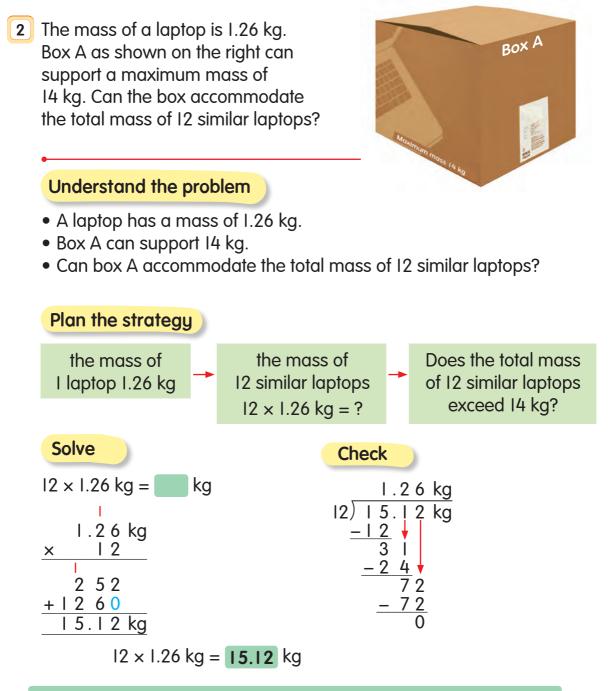
In a survey,  $\frac{4}{5}$  of Year 5 Dedikasi pupils love playing football.  $\frac{1}{3}$ of this group of pupils also love playing hockey. State the fraction of pupils who love playing hockey.

Name	Football	Hockey
Qalish	/	/
Kevin	/	
Jagdeep	/	/
Fahim		/
Tan	/	/
Rafiq	/	

## Understand the problem

- $\frac{4}{5}$  of Year 5 Dedikasi pupils love playing football.
- $\frac{1}{3}$  of the pupils who love playing football also love playing hockey.
- Find the fraction of pupils who love playing hockey.





Box A cannot accommodate the total mass of 12 similar laptops.

Types of box	Mass of item
Р	up to 10 kg
Q	10 kg to 20 kg

Based on the table, choose a suitable box to deliver the 12 laptops above. Discuss.

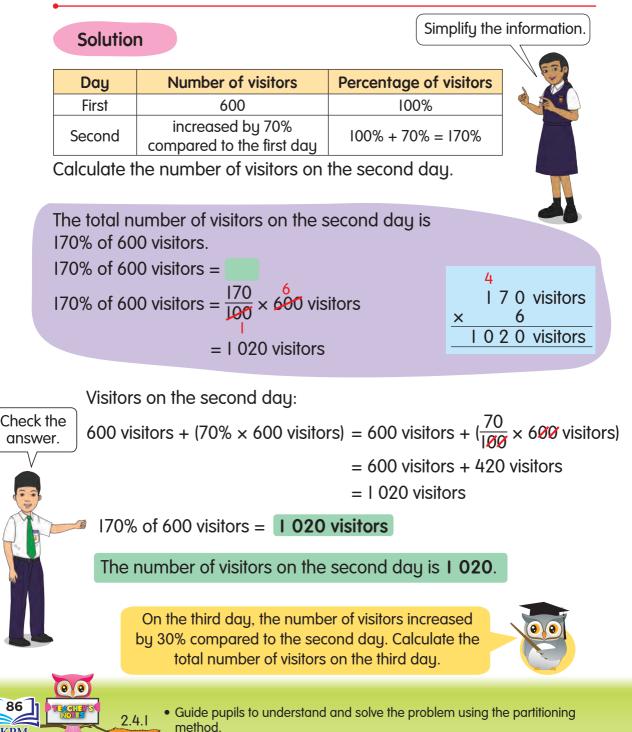


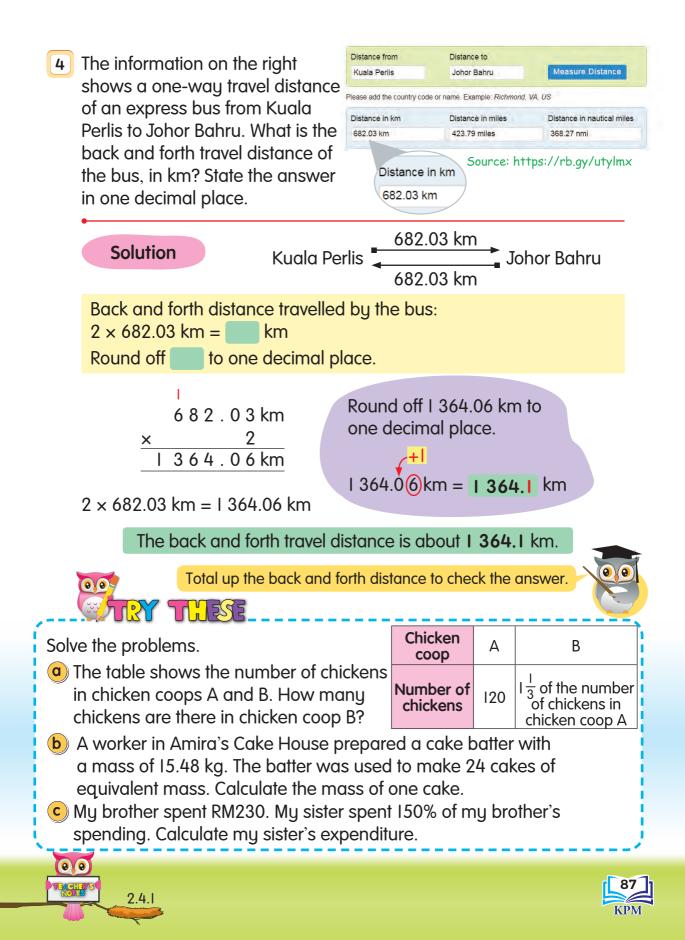




3 600 visitors attended a book fair on the first day. On the second day, the number of visitors increased by 70% compared to the first day. How many visitors attended the event on the second day?









I Calculate.

00

88

KPM

2.I.I, 2.2.I, 2.2.2, 2.2.3, 2.2.4

(1) $5 \times \frac{1}{7} =$	(b) $12 \times \frac{7}{8} =$	$\bigcirc 40 \times  \frac{8}{q}  =$	<b>(d)</b> $3\frac{5}{6} \times 24$	=
2 Find the produc	t.			
$\textcircled{0}\frac{2}{3}\times\frac{7}{9}=\blacksquare$	$\frac{5}{8} \times \frac{3}{5} =$	$\bigcirc \frac{4}{7} \times \frac{2}{5} = \blacksquare$	$\bigcirc \frac{1}{q} \times \frac{3}{4} =$	
3 Solve these.				
$\bigcirc 3\frac{1}{4} \times \frac{1}{5} =$	(b) $\frac{2}{q} \times 2\frac{q}{10} =$	<b>(c)</b> $ \frac{1}{3} \times 4\frac{4}{5} =$	$2\frac{4}{q} \times 1\frac{3}{8}$	=
4 Round off the de	ecimals.			
Decimals	One decimal place	Two decimal places	Three decimal places	
6.2471				
0 21.3895				
<b>O</b> 79.0546				
5 Complete the n	umber sentences			
29.746 – 18.	635 + 7.008 =	<b>b</b> 5.2 + 86.2	76 – 88.19 =	
<b>()</b> 830.72 + 49	.1 – 569.104 =	(d) 27 – 0.008	+ 6.05 =	
<b>()</b> 98.924 – 35			0.002 - 45 =	
6 Calculate.				
0 4 × 3.097 =	<b>(</b> ) 23 × 58	3.9 = 🚺 🧿	6l × 74.45 =	
<b>0</b> .756 × 10 =		× 100 =	45.32 × 1 000 =	
7 Find the quotier		× 100 – 🗾 😈		
0 6 453 ÷ 1 00			<b>O</b> 507 ÷ I 000 =	
<b>(0)</b> 5.8 ÷ 4 =	<b>(2</b> 06.9	19 ÷ 35 =	🕕 9 574.096 ÷ 2	28 =
<b>()</b> 84.7 ÷ 10 =	<b>(</b> )   0 3	÷ 100 =	0 673.2 ÷ 100 =	-

	8 Find the values of	•			
	× ·	42 💿 88.2 ÷ <b>p</b>	= 0.882 ()	$5\ 632 \div p = 5.6$	o32
	$0.375 \times p = 3$	375			
	9 Convert the mixe	ed numbers to pe	-		
	(1) $\frac{2}{5}$	$2\frac{3}{4}$ <b>O</b>	$\frac{1}{10}$	$5\frac{1}{2}$	
	0 Convert the perc	entages to mixed	numbers		
	<b>0</b> 130%		421%	505%	
			Boy B co	ntains 125%	
		B		of Box A.	
	20 teabags		leabago	OT BOA A.	
	How many t	eabags are there	in Box B?		
	Complete the	e table.			
	Targeted visit	ors Percentage of	attendance	Number of visite	ors
	500	135	%		
	12 The table below:	shows the numbe	of stamps co	ollected by Syed	l Halim
	in January, Febru				
	Month	January	February	March	
L	Number of stam	ps 80	88	96	
	Calculate the pe	rcentages of the n	umber of star	nps collected in:	•
	February cor	mpared to January	j. 🜔 Marc	h compared to J	anuary.
	<b>13</b> Solve the followin	ig problems.			
	Dad donated	$\frac{5}{6}$ of 120 storybod	ks to a local l	ibraru Are the r	emainina
	storybooks 2	0			errianing
		0.35 & water out a	fal.5 liua.	Then. she addec	10.115 l
	corn cordial ir		55	,	-
	. <u></u>	the volume of the	corn drink.		
	🝈 Round off	the volume of the	corn drink to	two decimal pla	ices.
		igned to raise a flo			
	<u> </u>	e month. The heig		is	
	•	gest the length of	•		
	Provide your				
	2.2.3, 2.2.4,				
	2.3.1, 2.3.2, 2.4.1				89
	2.7.1				KPM



Complete the following cross-number puzzle based on the questions below.

#### OCTOSS

- I 3.45 × 100 =
- 2 Round off 82.098 to two decimal places.
- **3** |40.7 66.207 + 39.14 =
- **4**  $9\frac{1}{2} = \%$
- 5 Calculate 180% of 40.
- **6**  $4\frac{1}{2} \times 2\frac{2}{3} =$

### down

- **7** 539 ÷ 1 000 =
- **8** 602.4 × = 6 024
- **9** 0.86 + 64.372 5.82 =
- **10** Round off 28.745 to one decimal place.

$$3\frac{2}{5} = \%$$

**12** 65.76 ÷ 12 =

1		9		5	10			
					2			7
			8					
12				11				
						6		
	3							
						4		



RMI00 000 loan so that we can buy this house. 2 Based on the table, how much is the total maximum cost if a philanthropist wants to bear the cost of heart

bypass, open-heart surgery,

and cancer treatment?

ADDITION OF MONEY

I am only entitled to the RM250 000 loan.

IMPIAN SERI

KEY TO A HAPPY FAMILY

FREEHOLD SPECIAL PROMOTION

Price Starts from RM350 000

I can apply for another

How much is the total loan the family needs?

RM250 000 + RM100 000 =

RM 2 5 0 0 0 0 + RM | 00 000 RM 3 5 0 0 0 0

RM250 000 + RM100 000 = RM350000

The total loan the family needs is RM350 000.

Types/ Treatment Cost	Minimum	Maximum
Heart Bypass	RM25 000	RM60 000
Heart Transplant	RM50 000	RM100 000
Open-Heart Surgery	RM25 000	RM60 000
Cancer	RM5 000	RMI 50 000

RM60 000 + RM60 000 + RM150 000 =

Т RM 60000 +RM 60000 RM | 20000

3.I.

)		RM	T	2	0	0	0	0
)	+	RM		5	0	0	0	0
)		RM	2	7	0	0	0	0

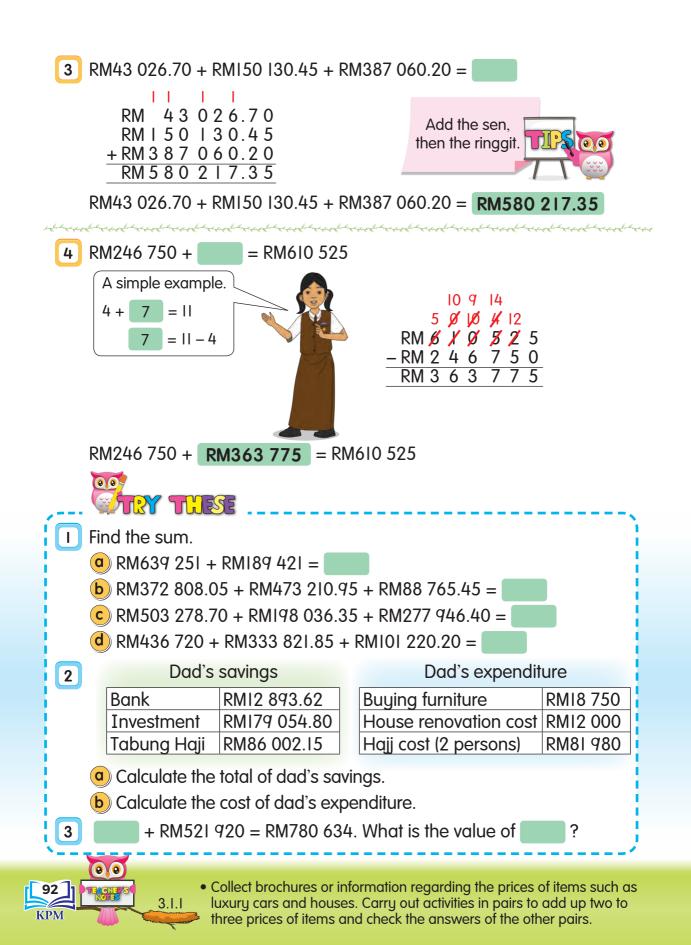
Calculate the minimum cost for the three similar treatments.

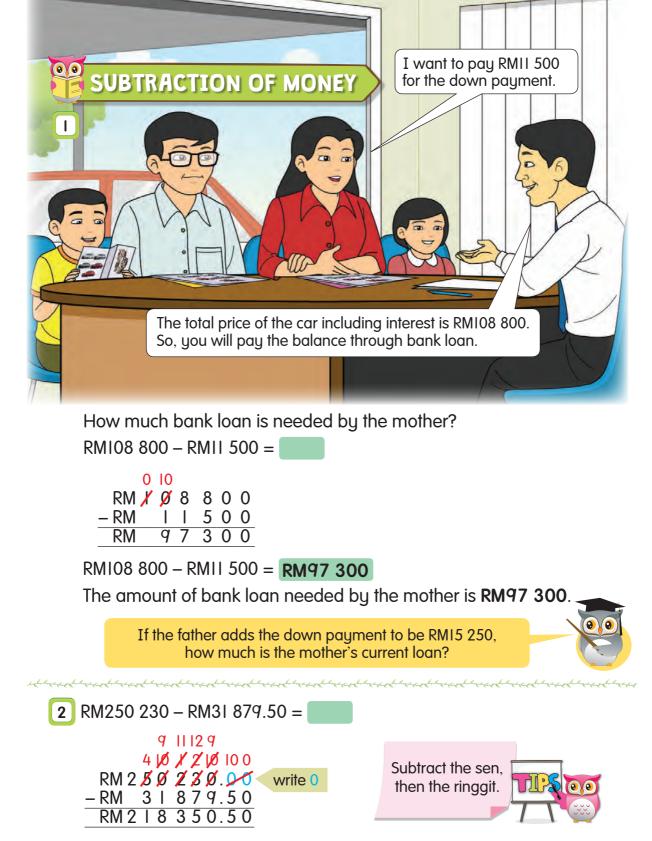
RM60 000 + RM60 000 + RMI50 000 = RM270 000

The total maximum cost is **RM270 000**.

- Emphasise that the addition of values of money is similar to the addition of whole numbers.
- Instil the values of helping and caring for each other. Discuss how to lead a healthy lifestyle.





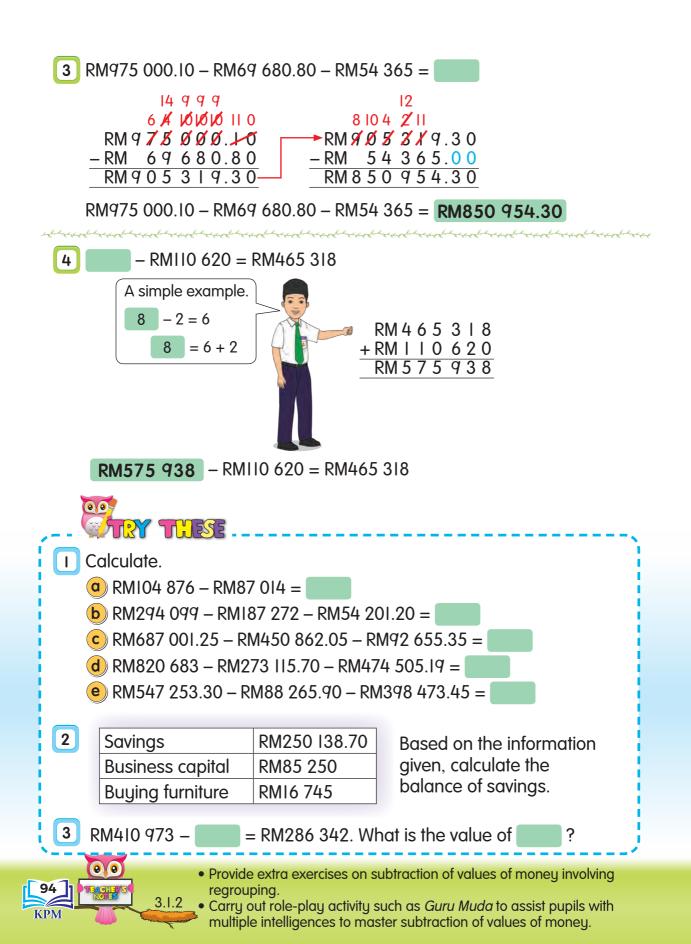


## RM250 230 - RM31 879.50 = RM218 350.50

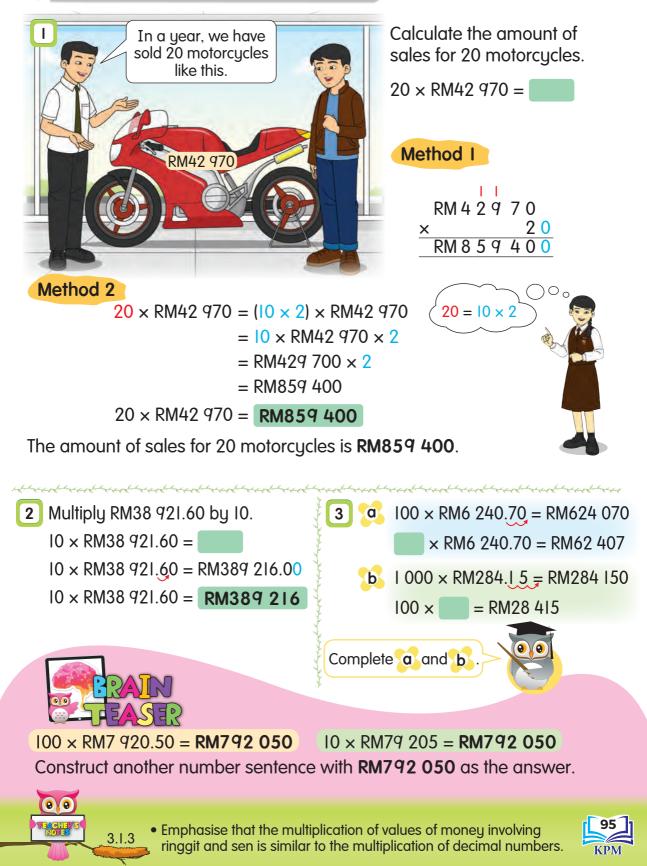
**0 ( 0**)







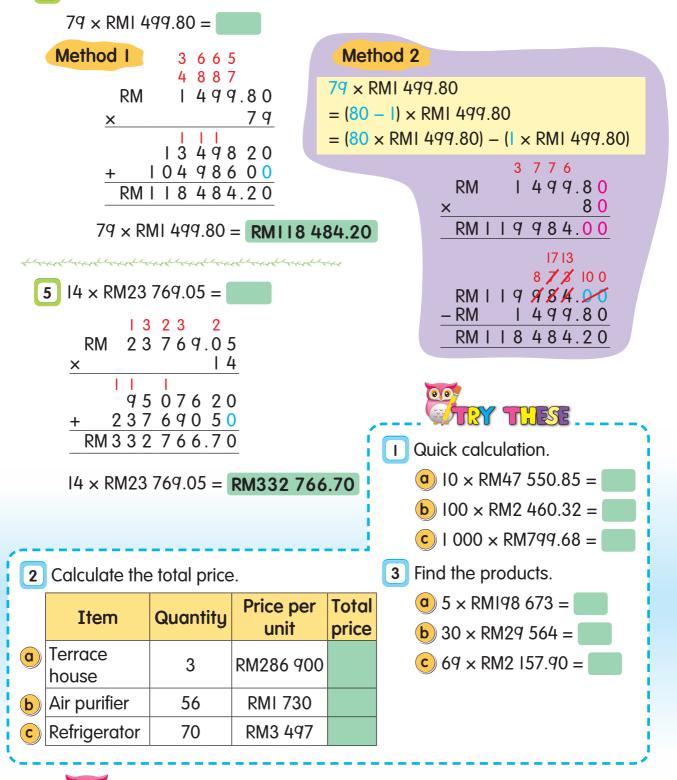
# **MULTIPLICATION OF MONEY**



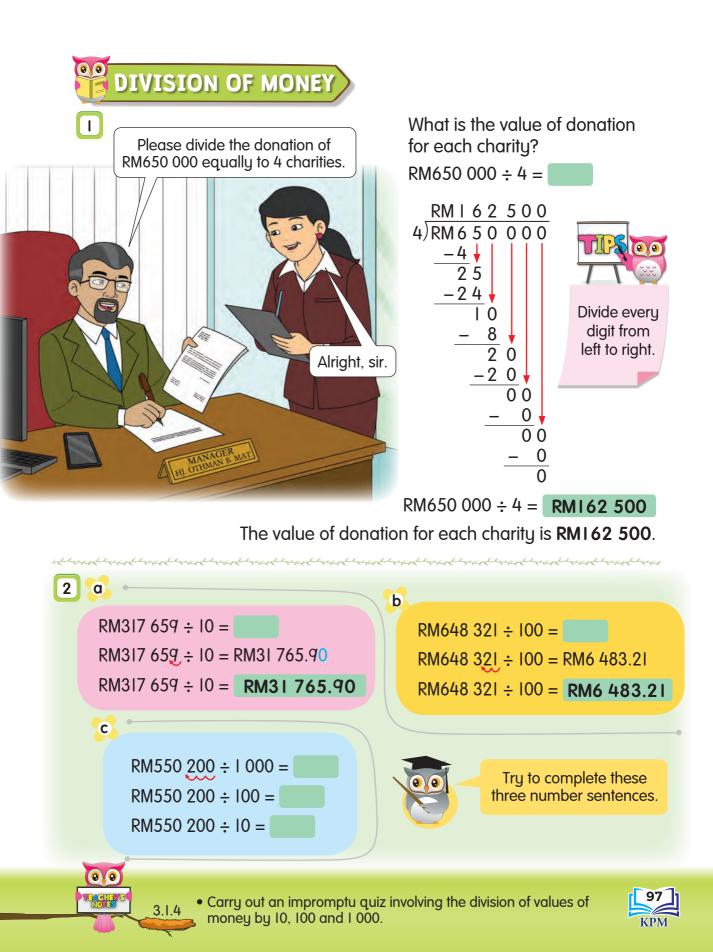
4 Calculate the product of 79 and RMI 499.80.

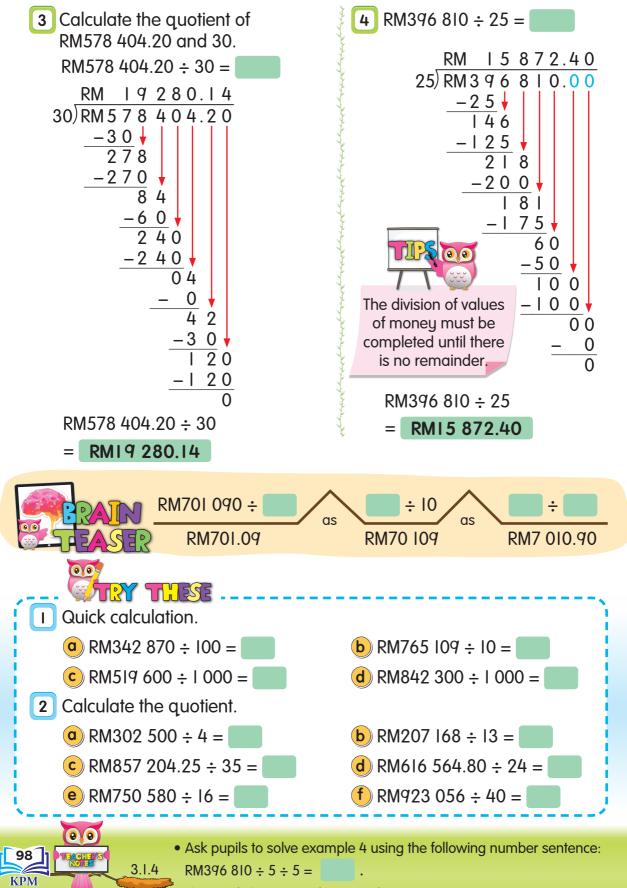
96

3.1.3



 Provide extra exercises on multiplication involving values of money and 2-digit numbers including ringgit and sen.





Then, ask them to make a conclusion.

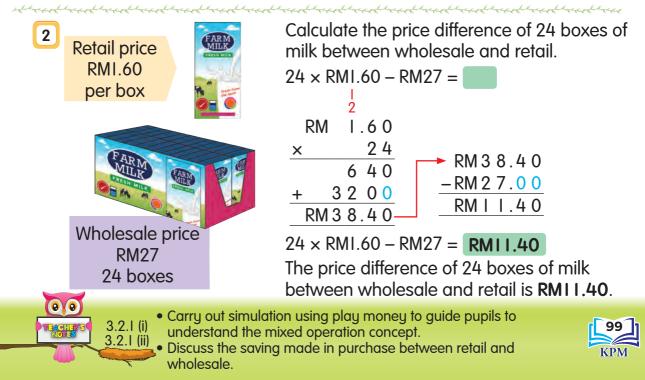
## MIXED OPERATIONS INVOLVING MONEY

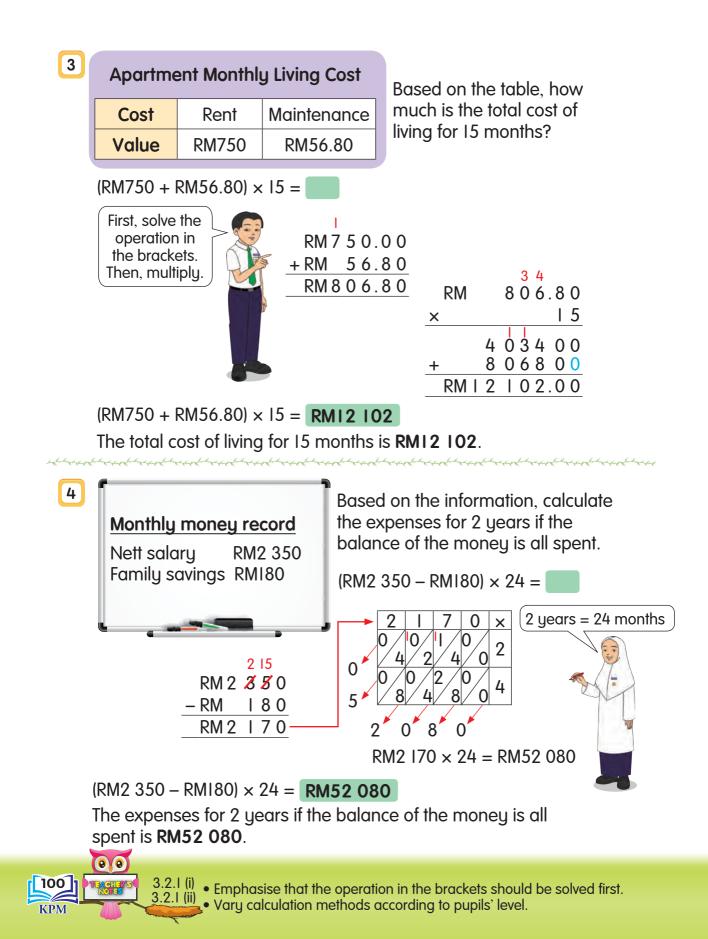
Date	Code	Document No.	Withdrawal (RM)	Deposit (RM)	Balance (RM)
1/01/2021	BAL B/F				6 800.00
31/01/2021		ATM TRF		150.00	
28/02/2021		ATM TRF		150.00	
31/03/2021		ATM TRF		150.00	

Based on the bank statement above, how much is the balance on 31 March 2021?

RM6 800 + 3 × RMI50 = **RM7 250** 

The balance on 31 March 2021 is RM7 250.







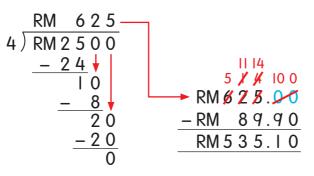
Calculate the first month payment. RMI 140 + RM3 120 ÷ 12 = RM 2 6 012) RM 3 1 2 0 -24 72 -72 00 -72 RM 1 4 0RM 1 4 0 0

RMI 140 + RM3 120  $\div$  12 = **RMI 400** The first month payment is **RMI 400**.





How much is the balance of Reza's money after buying the watch? RM2 500  $\div$  4 – RM89.90 =

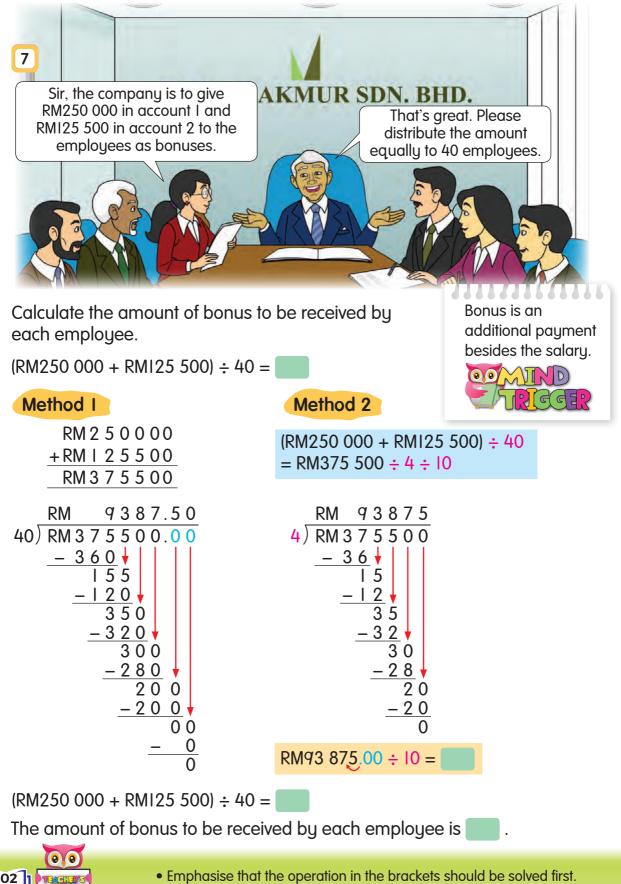


RM2 500 ÷ 4 – RM89.90 = **RM535.10** 

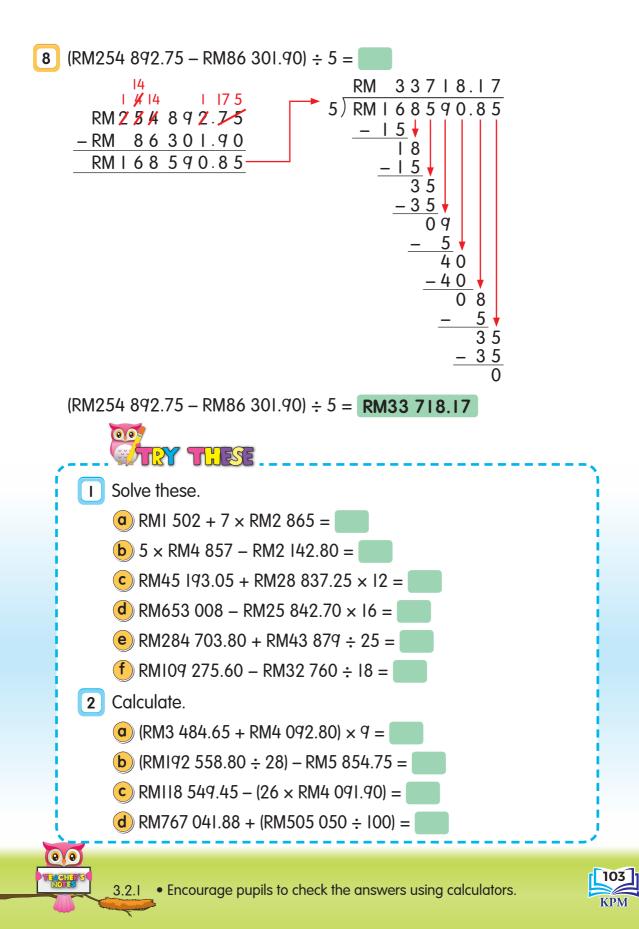
3.2.1 (iii) 3.2.1 (iv)

The balance of Reza's money after buying the watch is **RM535.10**.





3.2.1 (iii) • Vary calculation methods according to pupils' level.



FINANCIAL LITERACY

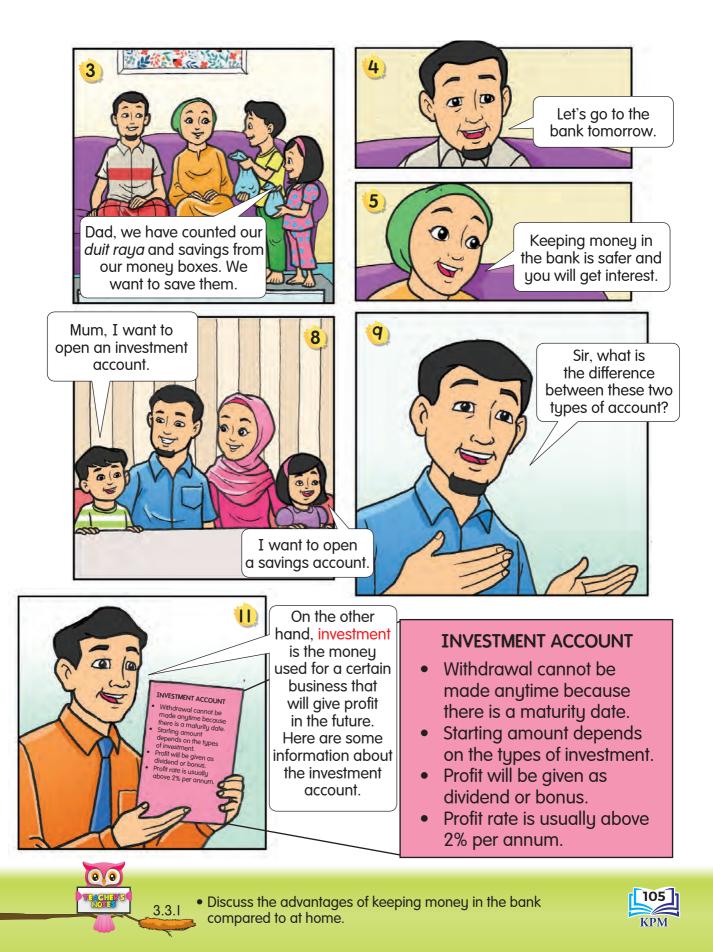
104

**KPM** 

3.3.1



• Visit various bank websites for more information regarding savings and investment. Discuss the findings in class.



#### SIMPLE INTEREST AND COMPOUND INTEREST

Mum, why is the value of the interest different?

The value for the first year is simple interest. If the savings is not withdrawn in the first year, compound interest is given on the second year.

> simple interest for the first year

Year	Balance at the beginning of the year	Interest rate		Balance at the end of the year
First	RM2 000	1.8%	RM36	RM2 036
Second	RM2 036	1.8%	RM36.65	RM2 072.65
Third	RM2 072.65	1.8%	RM37.31	RM2 109.96

#### 

Simple interest is an amount of money received by anyone who saves money in a bank within a period of time.

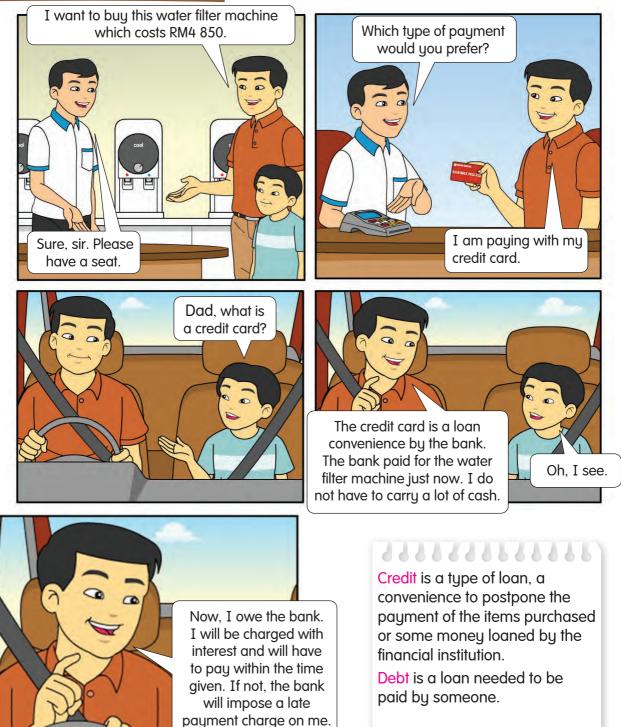
Compound interest is an interest received from the savings and interest collected each year.

TREEP

compound interest for second and third year



#### **CREDIT AND DEBT**







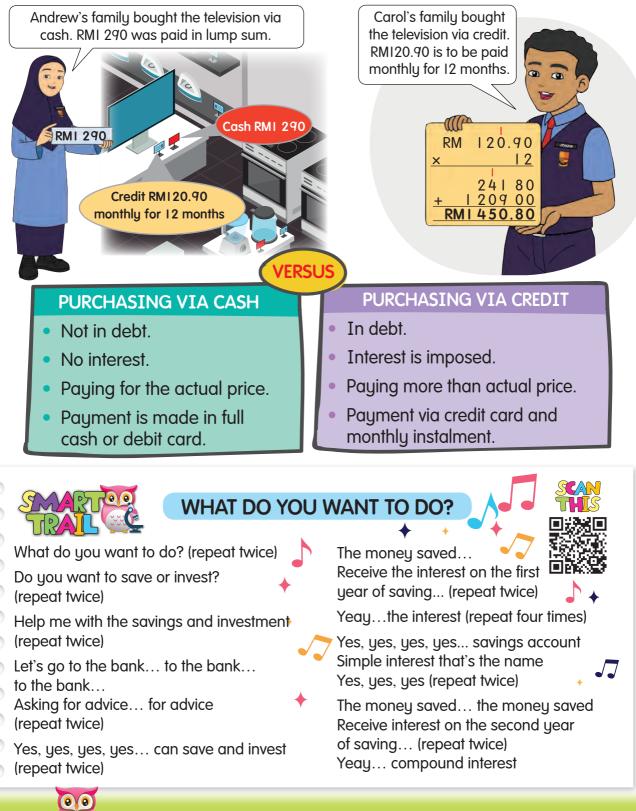
• Explain the importance of planning and managing the usage of credit card and debt.



#### PURCHASING VIA CREDIT AND CASH

108

3.4.2



- Discuss the benefits of cash purchase compared to credit.
- Sing the "What Do You Want To Do?" song using the tune of "Twinkle Twinkle Little Star".

I Match the word with the meaning.

RY THESE

00

An amount of money received by anyone who saves Savings money in a bank within a certain period of time. A convenience to postpone the payment of the items Investment purchased or some money loaned by the financial institution. Simple The money kept or deposited and can be used when interest necessary. The money used for a certain business that will Compound interest give profit. A loan needed to be paid by someone. Credit An interest received from the savings and interest Debt

2 Read and answer the questions.

00

3.3.1, 3.3.2, 3.4.1, 3.4.2

**a** Vickson can keep and withdraw his money easily. What is his account type?

collected each year.

- **b** Jagdeep keeps his money and receives profit in the form of dividend. Name his account type.
- c Angeline did not withdraw her savings for three years. Name the interest received from the savings she has not withdrawn.
- 3 Provide three differences between purchasing via credit and purchasing via cash.



## SOLVE THE PROBLEMS

 Ramesh bought a bicycle as shown in the picture via credit. He has to pay RMI20 per month for the bicycle for 24 months. How much is the price of the bicycle?



Understand the problem	Plan the strategy
<ul> <li>Monthly payment of RMI20.</li> <li>24 months instalment period.</li> <li>Find the price of the bicycle.</li> </ul>	I month $\rightarrow$ RMI20 24 months $\rightarrow$ 24 × RMI20 =
Solve $24 \times \text{RM120} =$ $\begin{array}{r} \text{RM120} \\ \times & 24 \\ \hline 480 \\ + & 2400 \\ \hline \text{RM2880} \end{array}$	Check $ \begin{array}{c} \text{RM} & 1 & 2 & 0 \\ \text{24} & \text{RM} & 2 & 8 & 8 & 0 \\                                  $

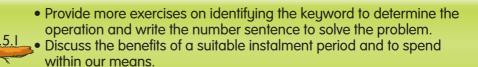
24 × RMI20 = **RM2 880** 

The price of the bicycle is **RM2 880**.

Kok Keong bought a bicycle too. He has to pay RMI80 monthly for 15 months. Whose bicycle is more expensive, Kok Keong's or Ramesh's? Discuss.

110

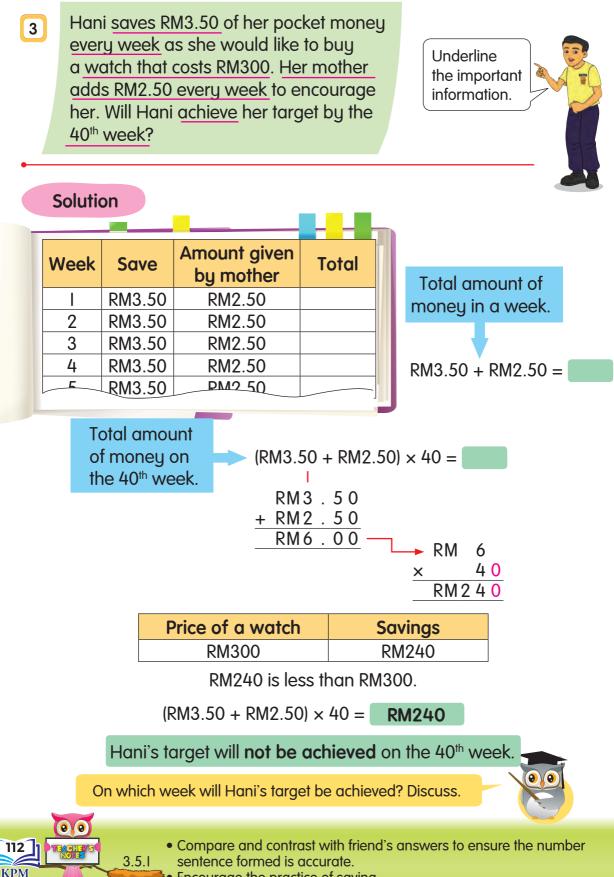




sports attire for Daren and his brother. His father paid RM500. Price of one set of How much is the balance? sports attire RM238.90 Understand the problem Plan the strategy • The price of I set of sports attire **RM500** is RM238.90. RM238.90 RM238.90 • Bought 2 sets of sports attire. • Paid RM500. balance Calculate the balance. Solve Check  $RM500 - 2 \times RM238.90 =$ 1 1 122 First, calculate the RM238.90 RM238.90 price of 2 sets of RM238.90 sports attire. X RM477.80 + RM 22.20 RM500.00 qq 4 10 10 10 0 RMZZZ.00 RM477.80 22.20 RM  $RM500 - 2 \times RM238.90 = RM22.20$ The balance is **RM22.20**. During a sales promotion, the price of the same set of sports attire was decreased by RM23.40. How much is the price of 2 sets of sports attire during the promotion? Guide pupils to identify important information based on 3.5.

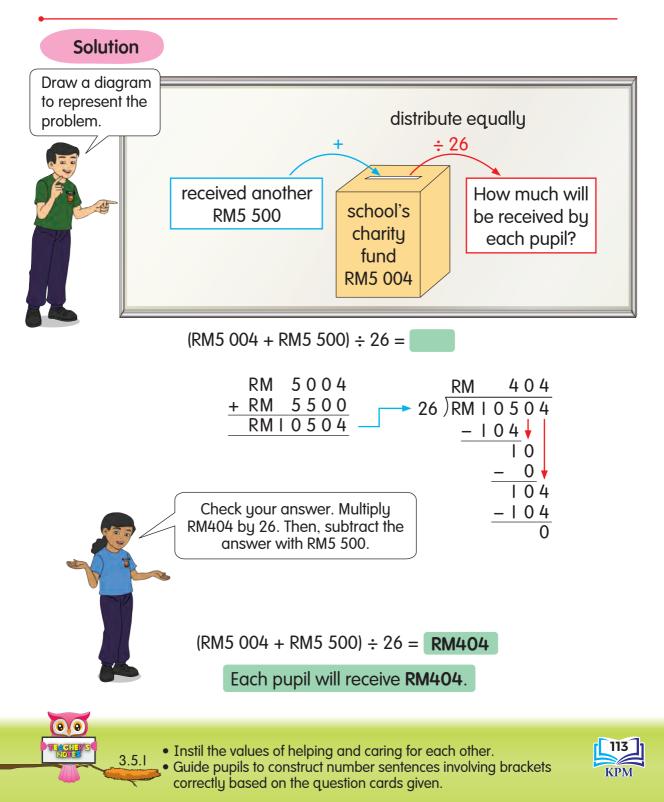
the question cards given to solve the problem.

2 Daren's father bought 2 sets of



• Encourage the practice of saving.

4 A school's charity fund has a total of RM5 004. The school received another RM5 500. The total amount of money will be distributed equally among 26 selected pupils. What is the value of money received by each pupil?



Solve the following problems.

The note on the right shows a financial planning of Winnie's mother.

Her mother wishes to distribute some amount of her retirement money equally to her 5 children.

- How much money will each child receive?
- Calculate the amount of investment made by Winnie's mother.

### 

Retirement fund	RMI45 358.70
Total amount of money for the children	RM12 000
Vacation expenses	RM5 750
Investment	RM?

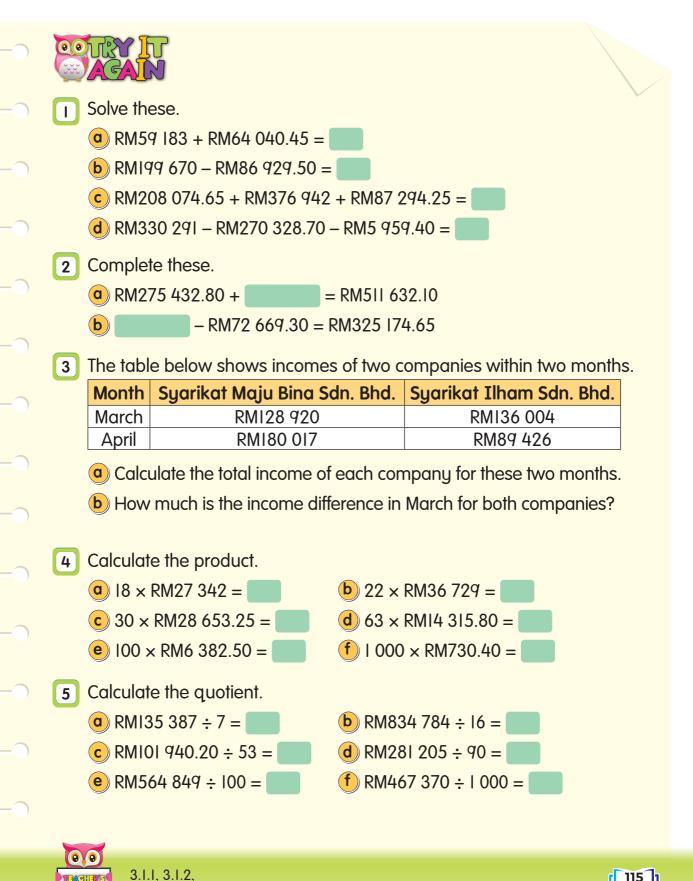
**b** Jason's sister keeps RM250 every month. After 36 months, she withdraws RM7 850 to pay the down payment for a car. If the savings interest is not included, calculate the balance of her savings.

- C A company distributes RM102 000 annual profit to 32 workers equally. Each worker will receive another RM1 200 in conjunction with the company's 10<sup>th</sup> anniversary. Calculate the total amount of money received by each worker.
- **d** A school decided to use a total of RM23 250 from the teachers and Parent-Teacher Association fund to buy 7 gazebos as a waiting facility. The cost of each gazebo is RM3 800.
  - 🚺 What is the cost of 7 gazebos?
  - Calculate the additional amount of money needed.
- e Izati's father bought a motorcycle via credit. The price of purchasing via cash and credit is as shown.
  - (1) What is the price of the motorcycle via credit?
  - Calculate the difference in price between cash and credit purchase.





Conduct a station activity to solve all of the questions above so that each group can compare the solutions with another group.
Guide the groups which face problems or make mistakes.



3.1.3. 3.1.4

115 KPM



9 Scan the QR Code to complete the crossword puzzle based on the sentences below.

AN IS	ACROSS	DOWN
	<ol> <li>interest is the interest received from the savings and interest collected each year.</li> <li>The loan that needs to be paid</li> </ol>	The bank provides the convenience of so that we can postpone the payment of items purchased.
	<ul> <li>for buying a car is called</li> <li>3 The savings that is not withdrawn on the first year will receive the interest.</li> </ul>	5 is the money used for a certain business that will give profit in the future. For example, in purchasing shares and becoming a cooperation member.
	4 The money kept or deposited and can be used when necessary is .	<ul> <li>6 Purchasing via does not get us into debt.</li> </ul>
	<b>00</b> 3.1.3, 3.1.4,	

3.2.1, 3.3.1,

33234

116

10 Wafiq's brother decides to buy a laptop as shown in the picture. Based on the information, provide three differences between cash and credit purchasing.



 $12 \text{ months} \times \text{RM256}$ 

II Solve the following problems.

Electrical Appliances Sales Centre

Туре	Price of a washing machine with a dryer
Α	RM4 123
В	RM5 278

A total of 23 type A and 18 type B washing machines with dryers were sold within 6 months. Based on the table,:

- calculate the total sales of type A washing machines with dryers.
- what is the difference in total sales of both types of washing machines?
- b My brother's monthly salary is RMI 820.80. He took an education loan of RM27 984. He has to pay via instalments for 8 years.

How much is my brother's instalment each month?

- Does the balance of my brother's salary exceed RMI 500 after paying for the instalment? Show the calculation.
- c Puan Wong bought a car as shown in the picture via credit with 108 months of instalments. She has paid RMI2 835.77 as the down payment. How much does Puan Wong need to pay monthly?
- d Encik Mesut has saved RM250 each month for 3 years. He wants to buy a motorcycle as shown in the picture for his son by cash. Does Encik Mesut have sufficient money? Prove it.







Solve all questions. Fill in the letter that represents the answer according to the question number given to crack the secret code.

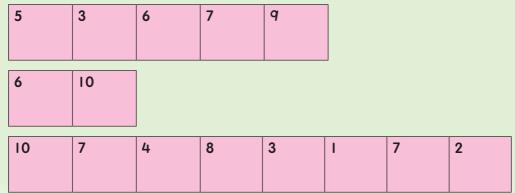
#### QUESTIONS



#### LETTER THAT REPRESENTS THE ANSWER

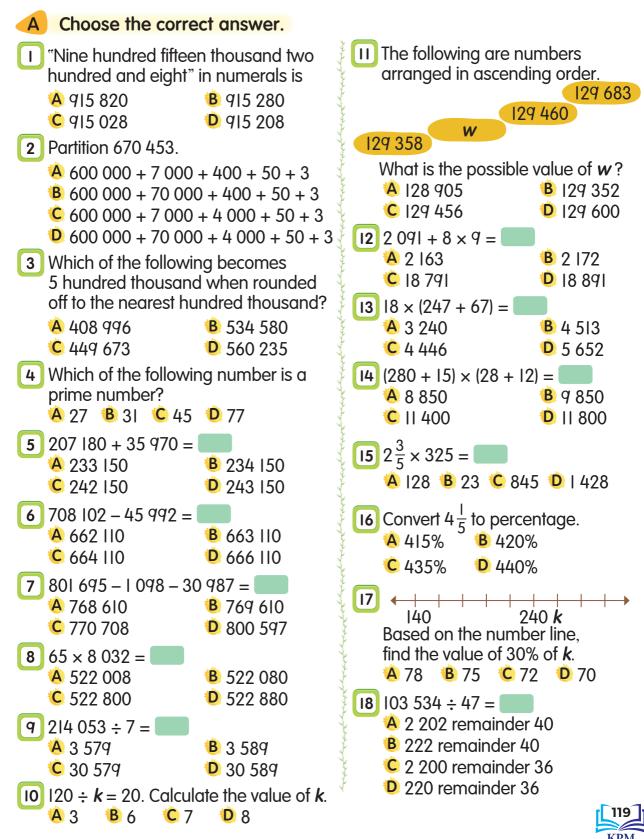
G	R			Y	]	S		I
RM221 374	R	RM328 782.40		RM412 443	]	RM615 777.70		RMIII 542
N		Н		E		Т		U
RM31 654.9	4	RM52 119	RM	1844 095.05		RMI38 667	RM	897 936.15

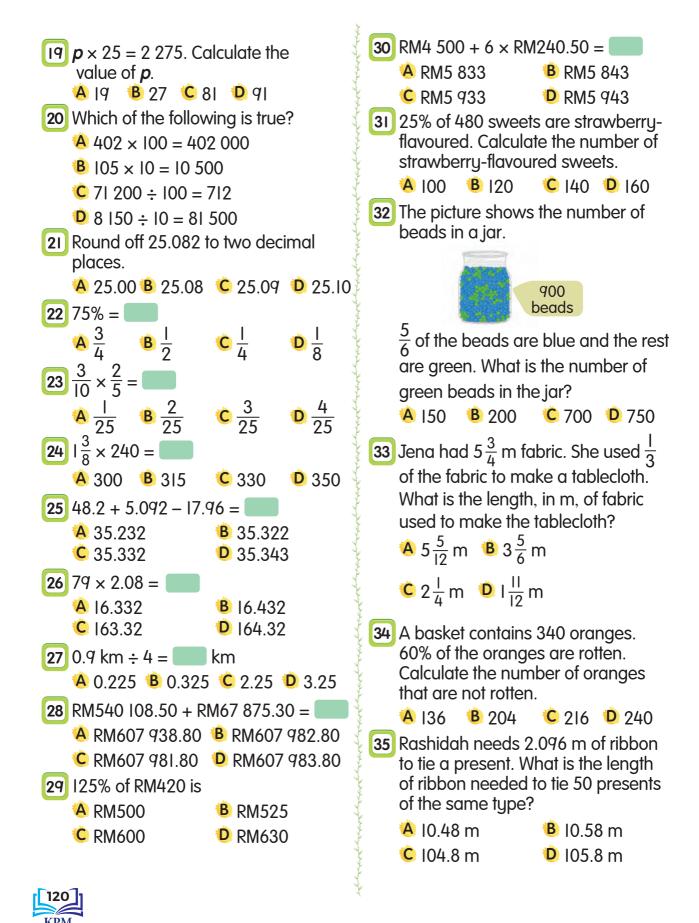
#### SECRET CODE











<ol> <li>State the answernumber card be 407 153</li> <li>What is the p</li> <li>Round off the nearest hund</li> <li>Calculate the digit value 4</li> <li>The table below television prograpupils.</li> </ol>	low. blace value of digit 4? e number to the dred thousand. e difference between and digit value 7. shows favourite ammes of a group of	<ul> <li>After a few days, <sup>2</sup>/<sub>3</sub> of the number of coupons in box Q were sold. What is the number of coupons still available in box Q?</li> <li>Solve these.</li> <li>RM125 600 - 6 × RM5 000 =</li> <li>RM800 000 - (RM120 000 ÷ 8) =</li> <li>The picture shows the price of a refrigerator. The price of the washing machine is not shown. The total price of a refrigerator and 3 washing</li> </ul>
Programme	Number of pupils	machines is RMI6 560.
Cartoon	609 140	£
whose favou fantasy.	24 861 less than cartoon number of pupils irite programme is	RM6 060
b $\frac{1}{5}$ of the total favourite pro cartoon are of the number favourite pro cartoon?	gramme is girls. What is of boys whose	Tick (✓) the number sentence that shows the price of a washing machine. (RM16 560 + RM6 060) ÷ 3 = RM7 540
	w shows the number coupons in box Q.	$RM16 560 - RM6 060 \div 3$ = RM14 540 (RM16 560 - RM6 060) ÷ 3

¥

l 800 coupons 5

= RM3 500

The number of coupons in another box which is box R is 130% of the number in box Q.

271.1-

Box Q

- Calculate the number of coupons in box R.
- savings and investment. Southand is the difference between

🕺 Explain briefly the meaning of

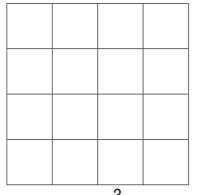
- simple interest and compound interest? What is the meaning of credit and debt?
  - 121 KPM

6 The table shows the percentages of population based on race in a city. The percentage of the Malay population is not shown.

Race	Percentage (%)
Malay	
Chinese	18
Indian	15
Others	7

The total population in the city is 250 000 people.

- Calculate the percentage of the Malay population.
- Calculate the number of the Indian population.
- 25% of the other race population is the Iban. What is the number of the Iban population in the city?
- 7 The diagram shows 16 squares of the same size.



- Rekha shaded  $\frac{3}{8}$  of the diagram above. How many squares were shaded by Rekha?
- Jagreet coloured 4 squares in red on the diagram above. What percentage of the whole diagram does the red squares represent?

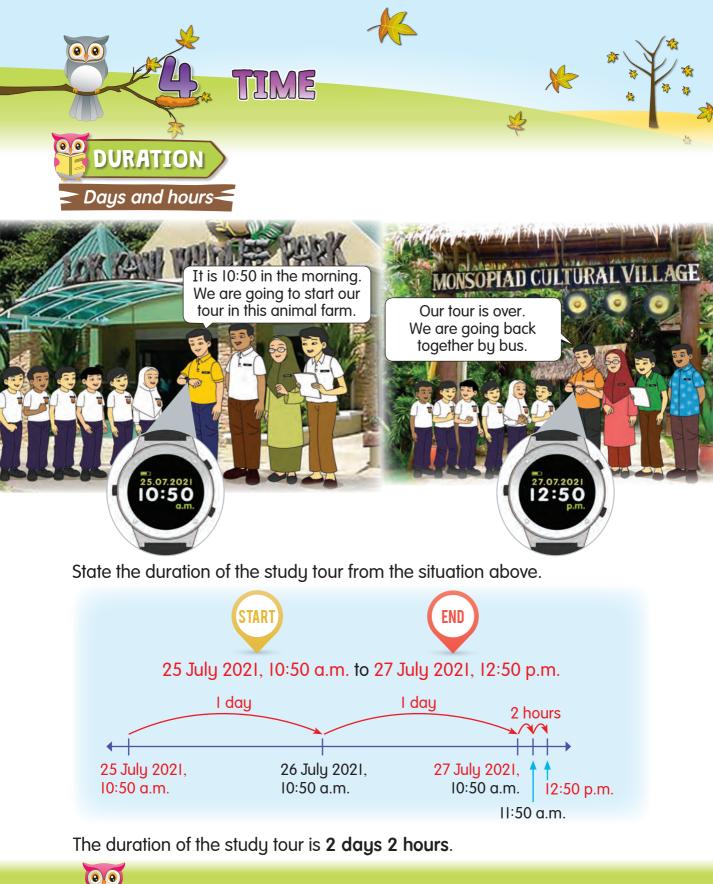
- 8 The mass of a *Pandan* cake is  $I\frac{4}{5}$  kg. Caslie served  $\frac{1}{3}$  of the *Pandan* cake to the guests. What is the mass, in kg, of the *Pandan* cake left?
- Romi bought 8 <sup>1</sup>/<sub>5</sub> kg of jackfruit.
   He gave <sup>1</sup>/<sub>4</sub> of the jackfruit to his neighbour. What is the mass, in kg, of the jackfruit given to his neighbour?
  - The length of a fabric is 0.75 m. Puan Zuraidah cut the fabric into 3 equal parts of the same length. What is the length of each part of the fabric?

10 The following are the prices of three types of houses in three different residential areas.



- A factory owner bought one unit of the house in Taman Kenari, one unit of the house in Taman Selasih, and one unit of the house in Taman Ceria for the workers. Calculate the total price for the three units of houses.
- Encik Hassan and 4 of his younger brothers shared money equally to buy one unit of the house in Taman Selasih. What amount of money must be given by each of his brothers?





• Ask pupils to talk about their experiences about tours, camping, or other activities involving days and hours.

4.1.1(i)



Months and days					
GREEN EARTH CAMPAIGN	Calculate the duration, in days, of the flower planting programme. I February 2020 to 8 March 2020 = days				
Flower Planting Programme 1 February 2020 to 8 March 2020	FEBRUARY       2020         S       M       T       W       T       F       S         1       2       3       4       5       6       7       8         1       12       13       14       15       1       2       3       4       5       6       7         1       2       3       4       5       6       7       8       9       10       11       12       13       14         15       16       17       18       19       20       21       22       23       24       25       26       27       28       29         23       24       25       26       27       28       29       15       16       17       18       19       20       21         22       23       24       25       26       27       28       29       30       31				
Let's use the calendar to calculate the duration in days.	I February to 29 February → 29 days I March to 8 March → <u>+ 8 days</u> Total days → <u>37 days</u> February 2020 to 8 March 2020 = <b>37</b> days				
17 18 19 13	duration of the flower planting programme 7 days.				

#### 3399933999999

In **leap year**, **February** has **29 days**. The total days in the leap year will be **366 days** and it will only occur **once every 4 years**.





- January, March, May, July, August, October, and December has 31 days each.
- April, June, September, and November has 30 days each.
- February (regular year) has 28 days.
- February (leap year) has 29 days.

What is the duration, in days, if the same campaign was held on the same date in 2019?



- 4.1.1 (ii) [
  - Carry out simulation activities using calendars, timelines, and diagrams to calculate the duration in days.
  - 4.1.1 (ii) Discuss how to determine the leap year by dividing the year by 4 without remainder. For example,  $2020 \div 4 = 505$ .



#### - Years, months, and days 🚄



126

4.1.1

Calculate the duration, in days, of the project of upgrading the sports complex based on the information on the left.

I December 2019 to 19 January 2021 = days

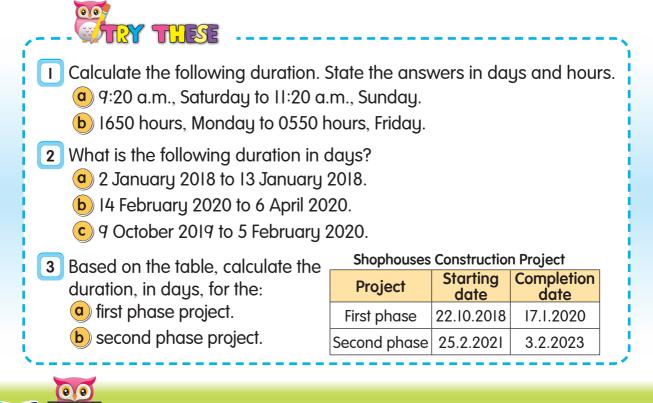
 $\begin{array}{l} 1.12.2019 \text{ to } 31.12.2019 = 31 \text{ days} \\ 1.1.2020 \text{ to } 31.12.2020 = 366 \text{ days} \\ 1.1.2021 \text{ to } 19.1.2021 = (19 - 1 + 1) \text{ days} \\ = 19 \text{ days} \\ \end{array}$ Total days: 31 days + 366 days + 19 days = 416 days

1 December 2019 to 19 January 2021 = **416** days

The duration of the project of upgrading the sports complex is **416 days**.

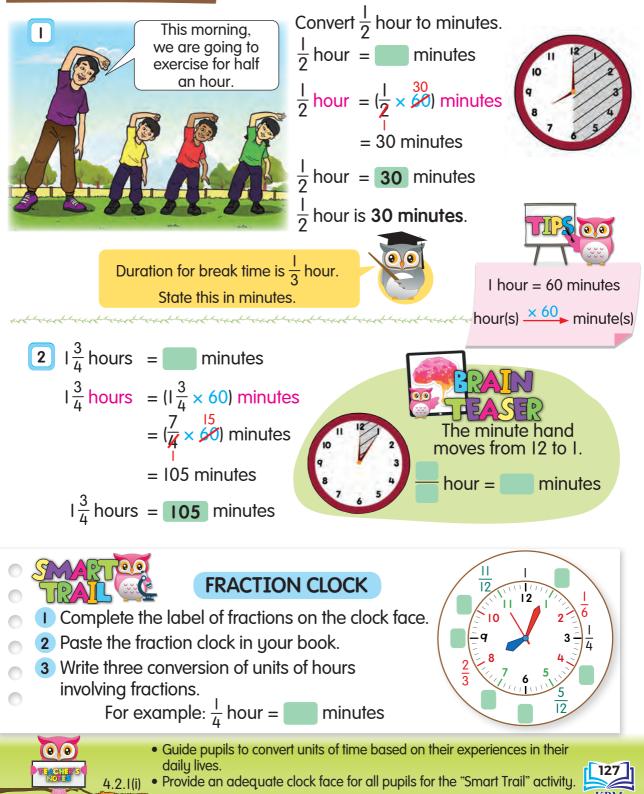
Try to calculate the duration, in days, from 13 June 2021 to 20 April 2023.

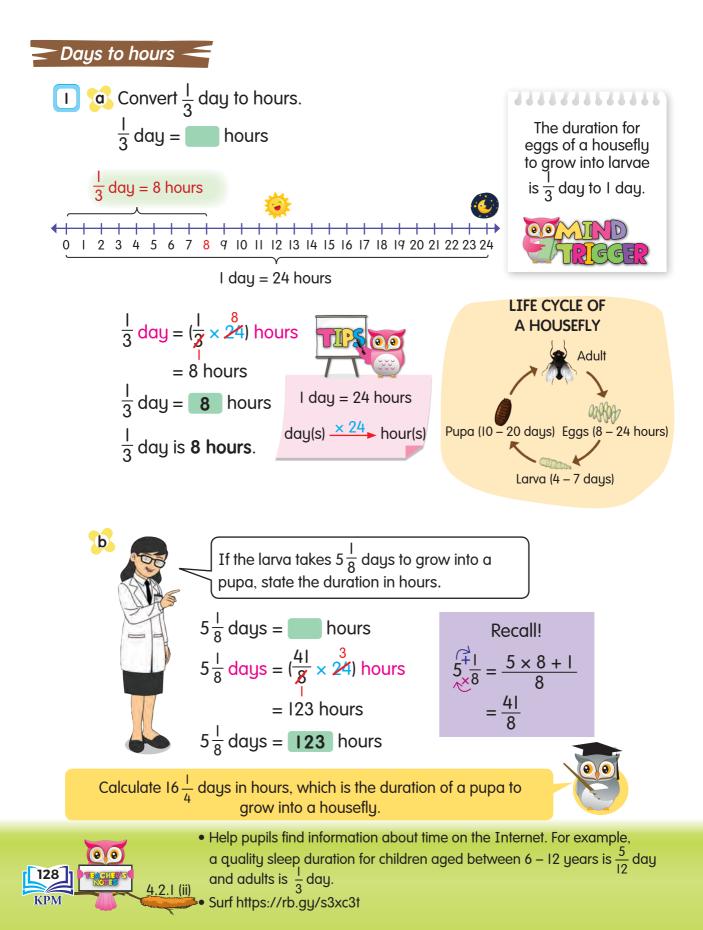




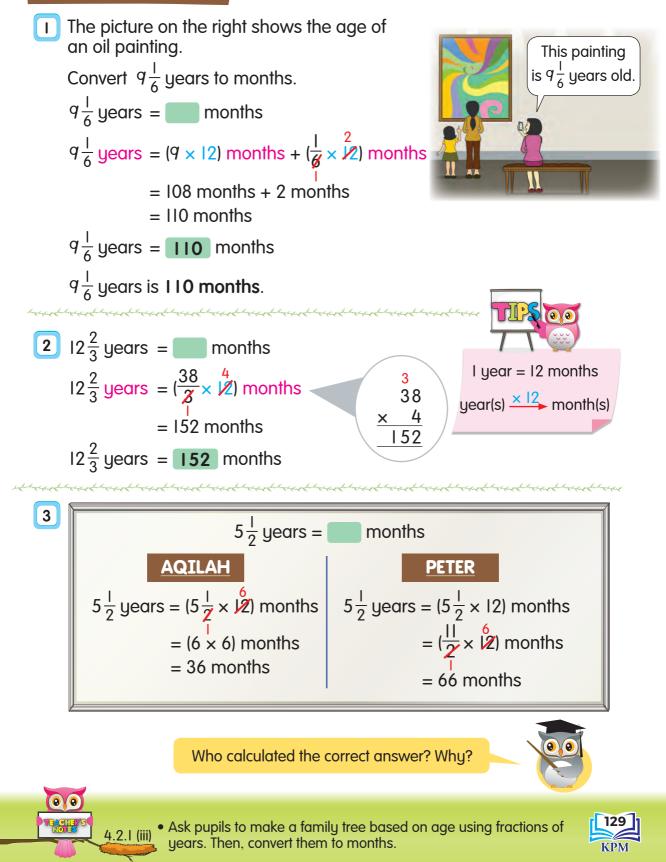
# CONVERT UNITS OF TIME

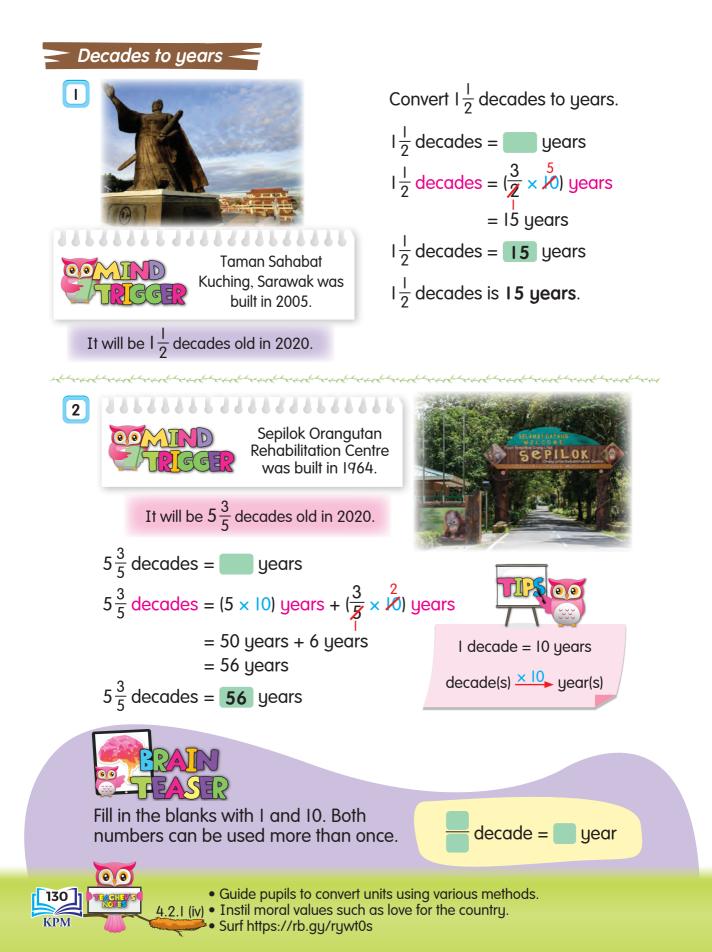
#### Hours to minutes -

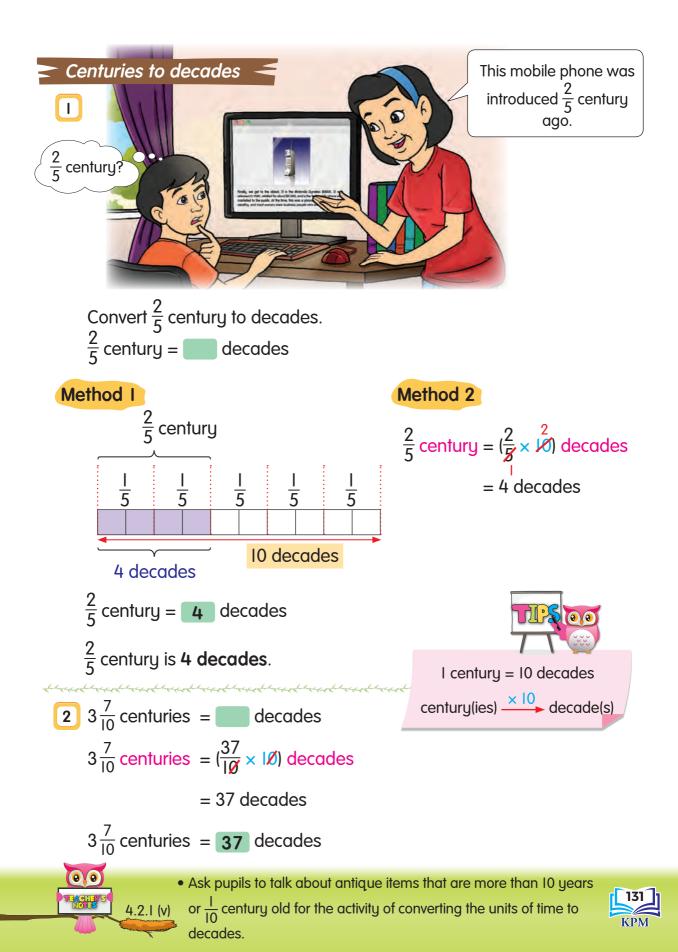


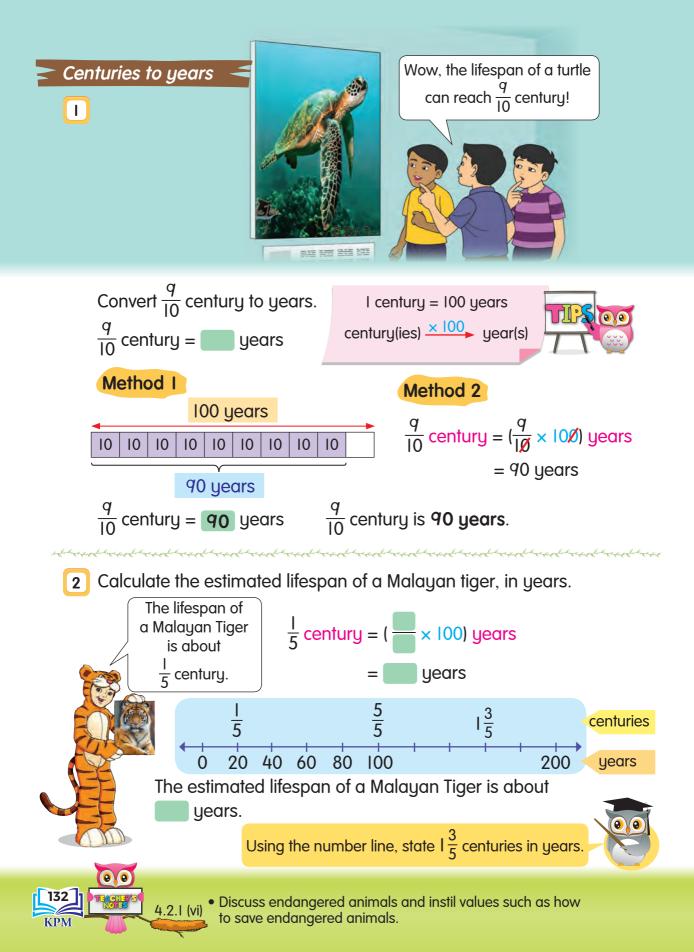


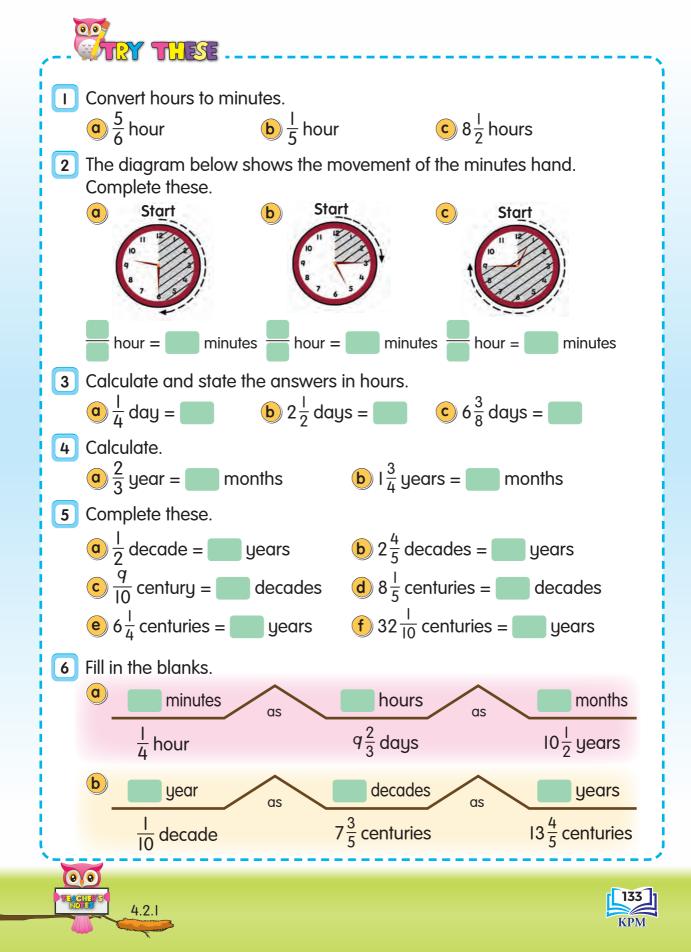
Years to months -















- = 270 minutes
- 4.5 hours = 270 minutes

The duration of the *gotong-royong* programme is **270 minutes**.

Before the programme started, a briefing was conducted for 0.35 hour. How many minutes was the briefing? Discuss.

- 4.2.2 (i
  - Ask pupils to talk about the activities that they have done and the duration in decimal units of hours.
  - Guide pupils to convert decimal units of hours to minutes.
  - Instil moral values like cooperation, helping each other, the spirit of neighbourhood, and cleanliness.