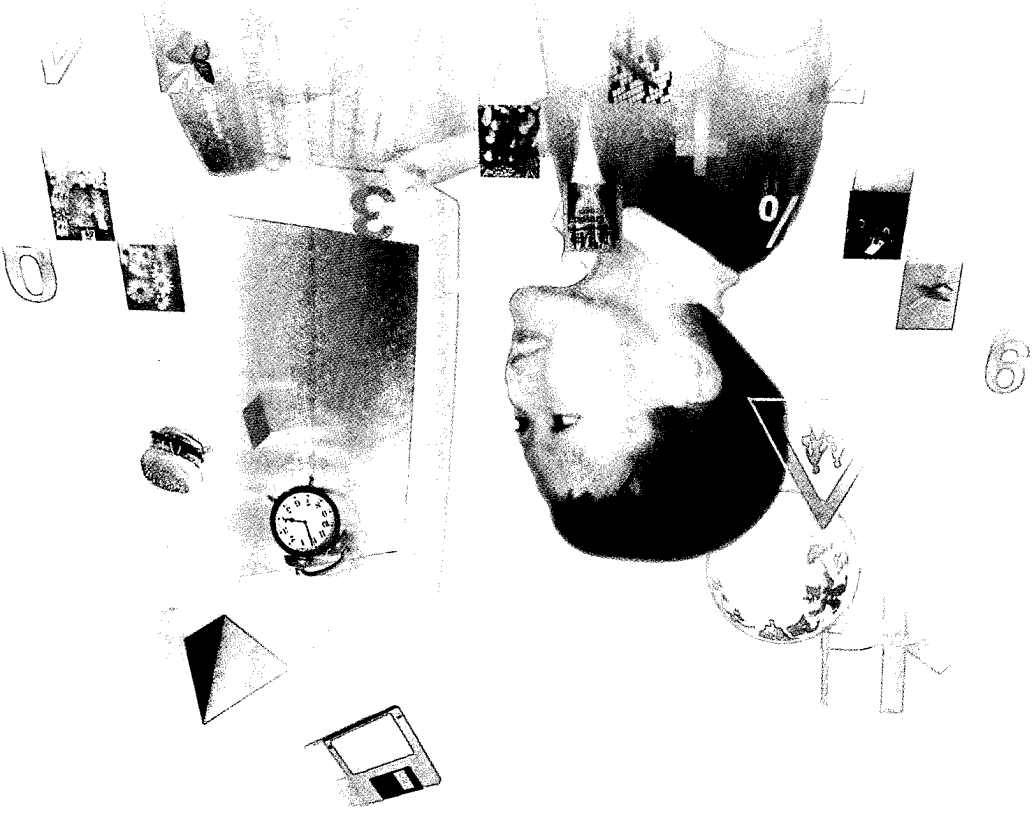


# THINKING 3A MATHEMATICS WORKBOOK 1



Consultants:  
Prof. Foong Pui Yee • Dr. Fan Liang Huo

Authors:  
Raymond Choong (BSc., Cert-in-Ed.) • Chong Yee Lin (BSc.)

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# Contents

## Numbers To 10 000

Exercise one	1
Exercise two	7
Exercise three	12

## Addition and Subtraction Within 10 000

Exercise one	16
Exercise two	22
Exercise three	27

## Time

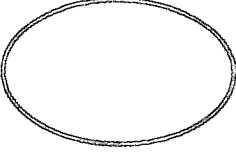
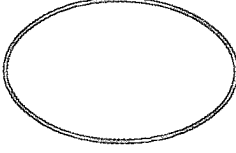

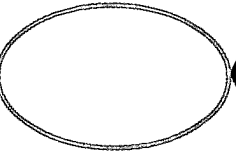

Exercise one	36
Exercise two	39
Exercise three	42
Exercise four	44

# Numbers to 10 000

## Exercise one



1. Complete the following.

	←	(e) Nine thousand nine hundred and nineteen
	←	(d) Six thousand and seven
	←	(c) Three thousand and five hundred
	←	(b) Two thousand three hundred and four
	←	(a) One thousand one hundred and fifteen

Th	3
H	5
T	7
O	9

3. Fill in the blanks.

(a) 3579 is a 4-digit number.

It is made up of \_\_\_\_\_ thousands, \_\_\_\_\_ hundreds, \_\_\_\_\_ tens and \_\_\_\_\_ ones.

In 3579 the digit...

(b) 3 stands for \_\_\_\_\_.

(c) \_\_\_\_\_ is in the tens place.

(d) \_\_\_\_\_ is in the ones place.

Th	7
H	0
T	3
O	1

4. Fill in the blanks.

(a) In 7031, the digit 7 stands for \_\_\_\_\_.

(b) Which digit in the number 7031 is in the hundreds place?

The digit is \_\_\_\_\_.

(c) The value of the digit 3 in 7031 is \_\_\_\_\_.

(d) In 7031, the digit in the ones place is \_\_\_\_\_.





7. Fill in the blanks.

(a) In the number 2145, the digit \_\_\_\_\_ stands for '5'; the digit \_\_\_\_\_ stands for '40'; the digit \_\_\_\_\_ stands for '100'; the digit \_\_\_\_\_ stands for '2000';


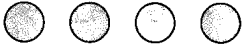


(b) In the number 5890, the digit 0 stands for \_\_\_\_\_; the digit 9 stands for \_\_\_\_\_; the digit 8 stands for \_\_\_\_\_; the digit 5 stands for \_\_\_\_\_.

(c) In the number 8205, the digit 5 stands for \_\_\_\_\_; the digit 0 stands for \_\_\_\_\_; the digit 2 stands for \_\_\_\_\_; the digit 8 stands for \_\_\_\_\_.





8. Look at the key. Fill in the place value chart with the correct numbers.

Key:  represents 1000  
 represents 10  
 represents 100  
 represents 1

(a)

_____	_____	_____	_____	   
O	T	H	Th	

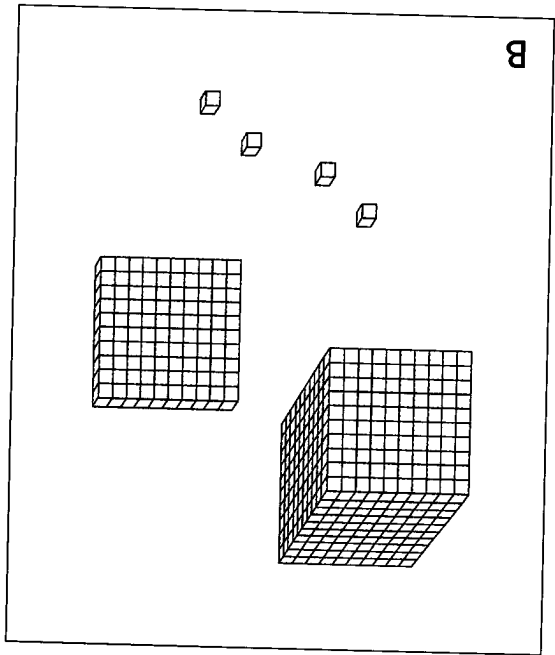
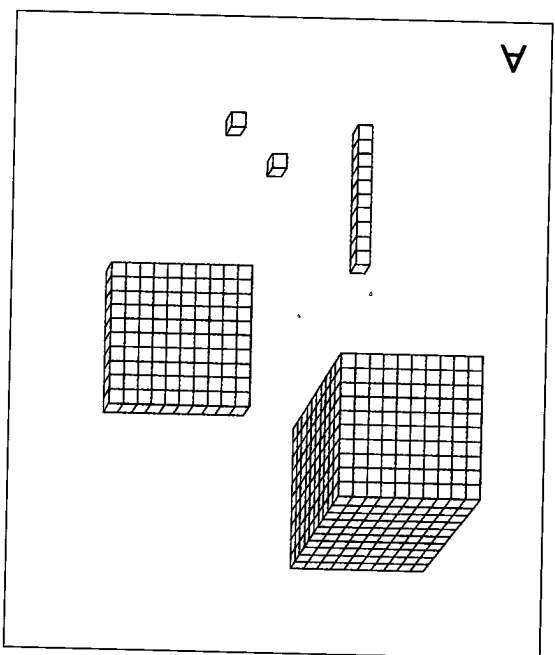
(b)

_____	_____	_____	_____	   
O	T	H	Th	

**Exercise two**

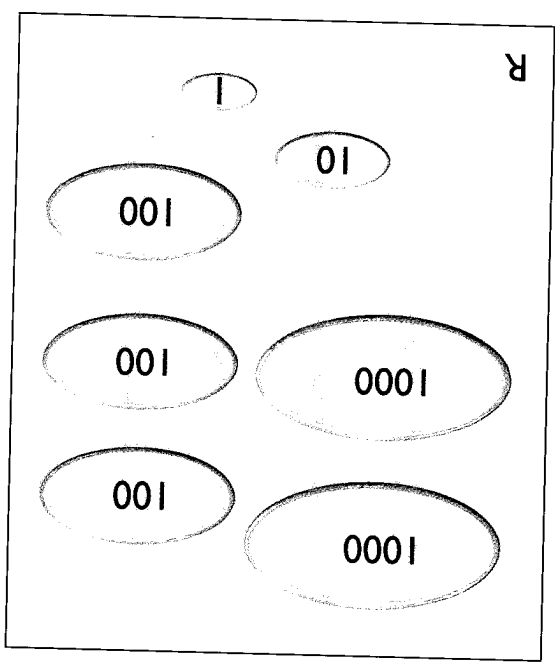
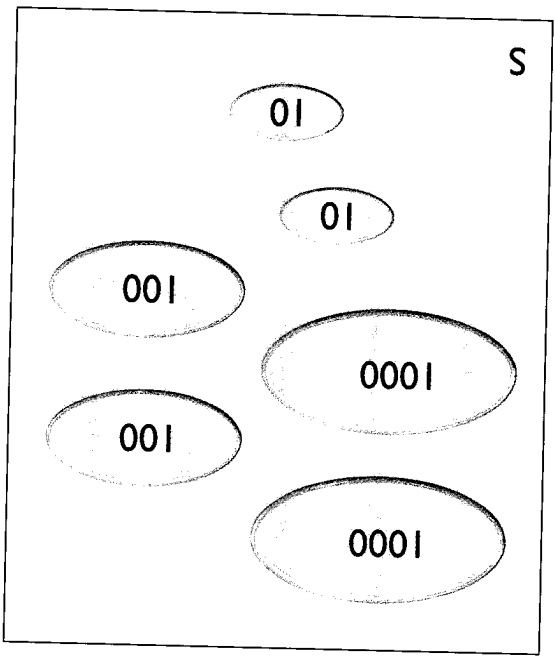
1. Which set is larger?

(a)

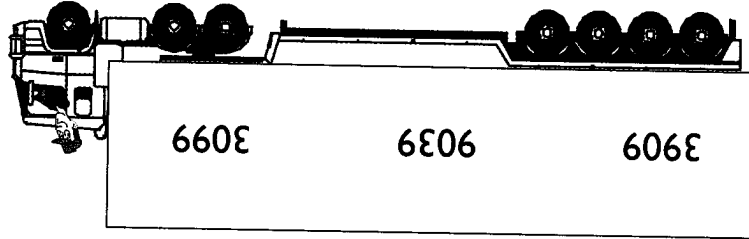


Set \_\_\_\_\_ is larger than Set \_\_\_\_\_

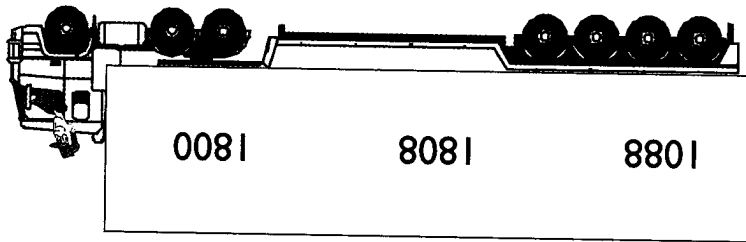
(b)



Set \_\_\_\_\_ is larger than Set \_\_\_\_\_



(b) Arrange the numbers in descending order.



(a) Arrange the numbers in ascending order.

A mechanical calculator is shown on the left, with a large speech bubble extending from it. The speech bubble contains five comparison questions:

- (a) 6785 is \_\_\_\_\_ than 6875.
- (b) 2500 is \_\_\_\_\_ than 2050.
- (c) 1820 is \_\_\_\_\_ than 1028.
- (d) 9099 is \_\_\_\_\_ than 9009.
- (e) 3550 is \_\_\_\_\_ than 3505.

4. Fill in the blanks with the words **larger** or **smaller**.

9. (a) Use the following digits to make different 4-digit numbers beginning with '1' each time. You can use each digit only once for each number.



The 4-digit numbers are:


(b) The largest number is \_\_\_\_\_.

(c) The smallest number is \_\_\_\_\_.

(d) Which two numbers which have the digit '9' in the hundreds place?

\_\_\_\_\_

(e) Which two numbers that have the digit '5' in the tens place?

\_\_\_\_\_

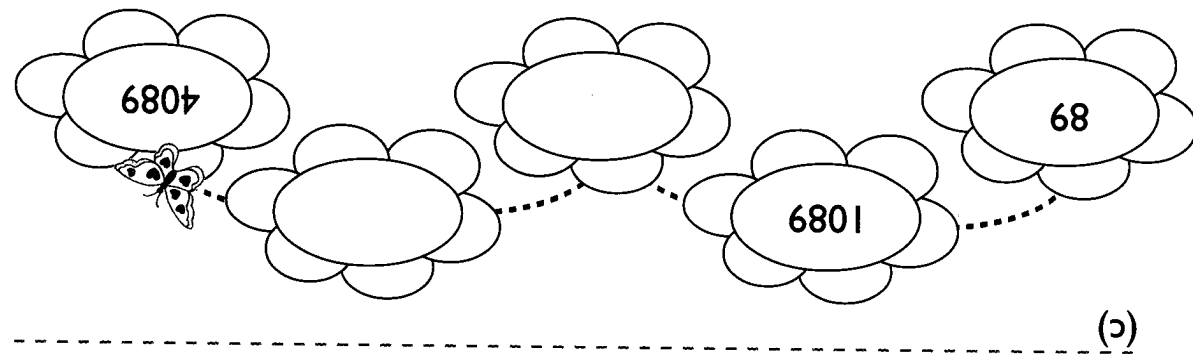
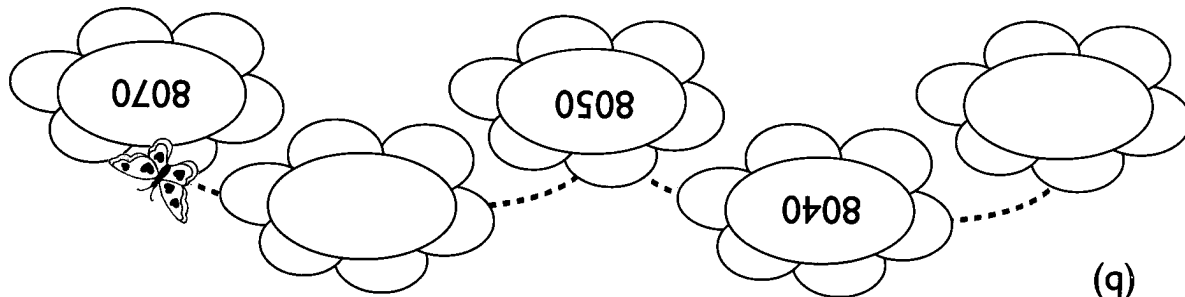
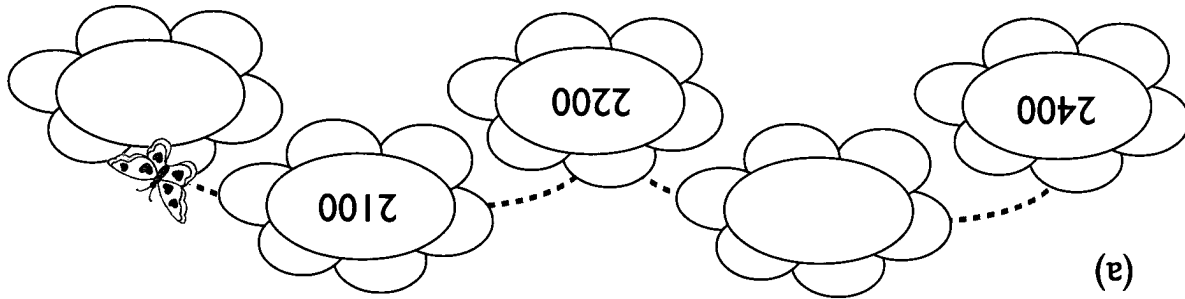


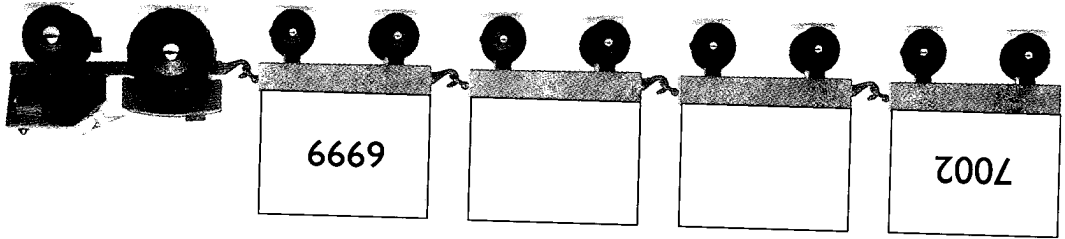
2. Identify the pattern and write the correct number in the box to complete the sequence.

(a) 1410, 1510,

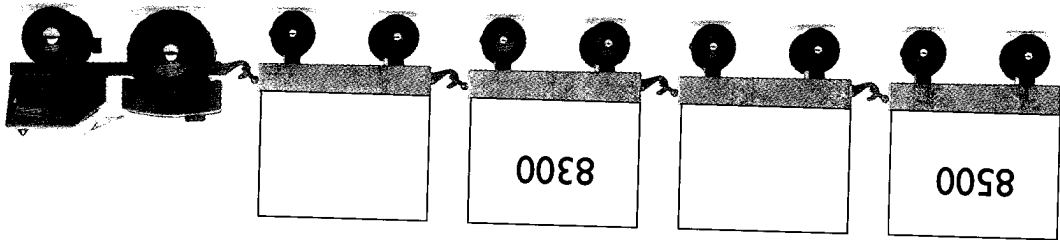
(b) 600, , 2600, 3600

3. Identify the pattern and complete the number sequences.

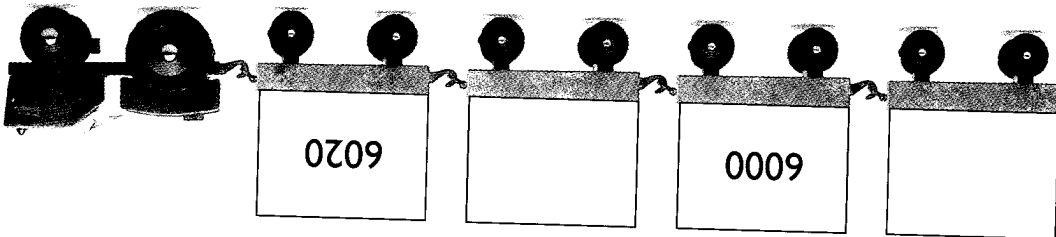




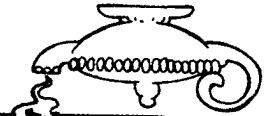
(p)



Descending order:  
(c)



(b)



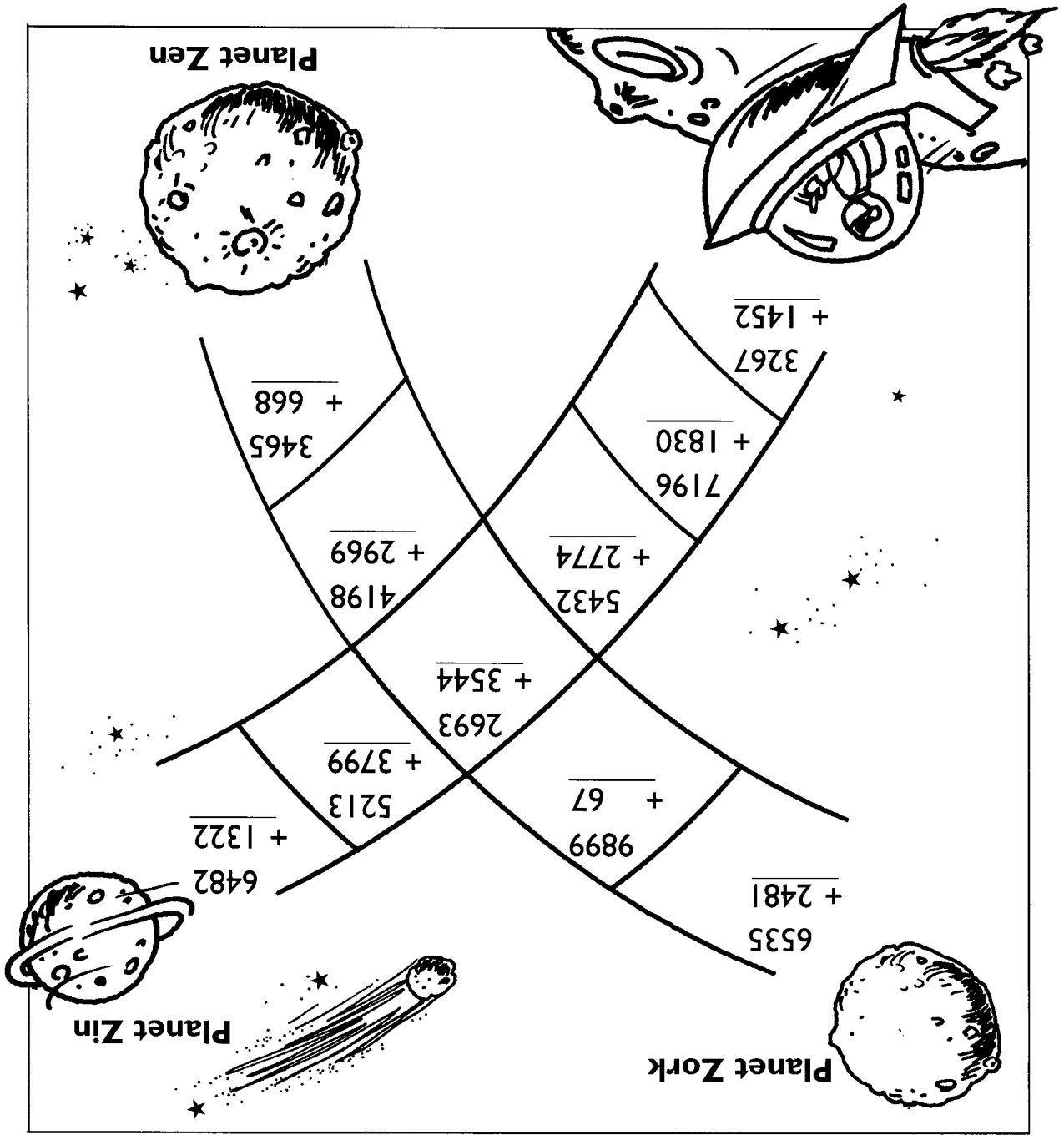
_____ = 1 + 666 (i)	_____ = 1 + 999 (i)
_____ = 2 + 4218 (h)	_____ = 9 + 899 (g)
_____ = 1 + 5329 (f)	_____ = 9 + 911 (e)
_____ = 4 + 2100 (d)	_____ = 9 + 901 (c)
_____ = 3 + 1056 (b)	_____ = 1 + 809 (a)



2. Fill in the blanks.

(c) $2462 + 1231 =$			
Thousands	Hundreds	Tens	Ones

5. Astronaut Alex is taking a ride in his spaceship. Follow him on his journey. He can only move along the path where the sum of each pair of numbers ends with a '6', '7', '8', or '9'. Find out where he finally lands.



Astronaut Alex lands on Planet

8. Do these sums. Write the letters that match the answers below. These letters form words across.

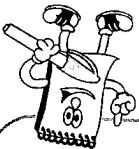
$\square$	$\square$	$\square$	$\square$
$4562 + 453$	$8139 + 999$	$7313 + 1112$	$4562 + 1247$
$6032 + 2018$	$919 + 3009$	$2323 + 4523$	$7778 + 1247$
$2987 + 6002$	$7511 + 2121$	$5764 + 3456$	$4367 + 2634$

9632-I 8050-D 9135-E 5015-L 7001-E 8989-T 9025-C 8425-A 9220-X 3928-B 6846-U

The words formed are... \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_



3. Complete the subtractions.



(a)  $1000 - 100 =$

(c)  $2000 - 200 =$

(e)  $3300 - 300 =$

(g)  $4870 - 100 =$

(i)  $5870 - 120 =$

(b)  $6200 - 100 =$


(d)  $5750 - 120 =$

(f)  $6660 - 130 =$

(h)  $7720 - 120 =$

(j)  $8760 - 160 =$

4. Fill in the missing numbers. Cross out the answer with the largest number.



(a)  $2100 - 1000 =$

(c)  $4480 - 2200 =$

(e)  $6890 - 3520 =$

(g)  $5500 - 2500 =$

(i)  $7870 - 3520 =$

(b)  $3330 - 2000 =$

(d)  $5890 - 1200 =$

(f)  $4300 - 2100 =$

(h)  $6440 - 2200 =$

(j)  $9870 - 4570 =$

6. Do the following sums showing all your workings neatly in the working column.

(a)  $2340 - 14 =$

(b)  $3589 - 18 =$

(c)  $4876 - 198 =$

(d)  $5675 - 865 =$

(e)  $7754 - 2356 =$

(f)  $7600 - 1438 =$

Working Column

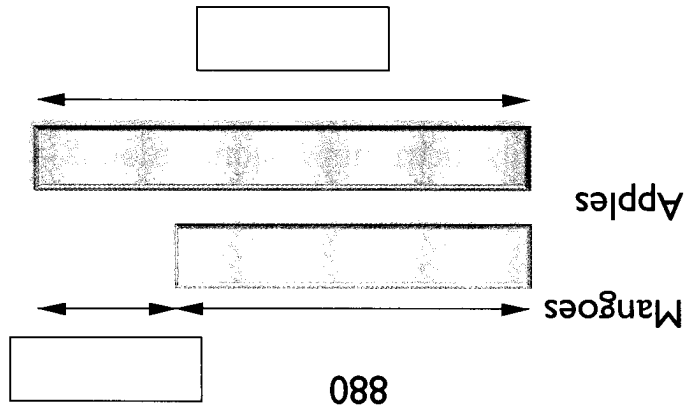
$$\begin{array}{r} 2340 \\ - 14 \\ \hline \end{array}$$

# Exercise three

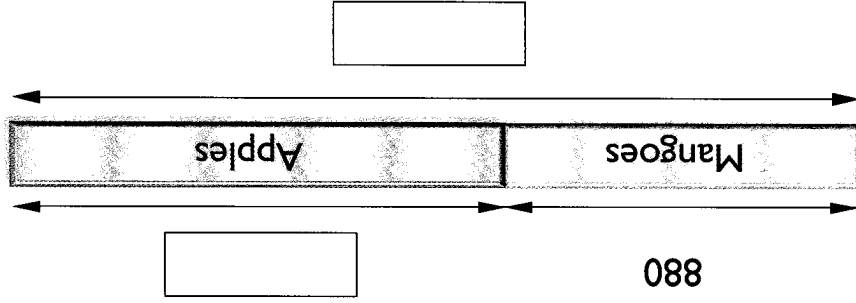
Fill in the boxes. Solve the problems.

- There were 880 mangoes in a fruit shop. There were 220 more apples than mangoes.

(a) How many apples were there?



(b) How many apples and mangoes were there altogether?





Solve the following problems.

3. There are 1240 men and twice as many women working in a factory.  
(a) How many women are working in the factory?  
(b) How many people are working in the factory altogether?

4. A school library had 5890 books. 2365 books had been borrowed. How many books were left in the library?

7. There were 5870 children and 2988 adults at a book fair. How many people were there in all at the book fair?

8. Mei Ling spent \$4277 on a sofa set and dining table set. The sofa set cost \$3255. How much did the dining table cost?

9. There were 2642 new cars registered last month. There were 325 fewer new cars registered this month compared to last month.  
(a) How many new cars were registered this month?

(b) How many new cars were registered altogether in the two months?

12. The following items were offered for sale.

**Washing Machine**  
Special Price:  
**\$399/-**

**Laser Printer**  
Best Buy  
**\$509/-**

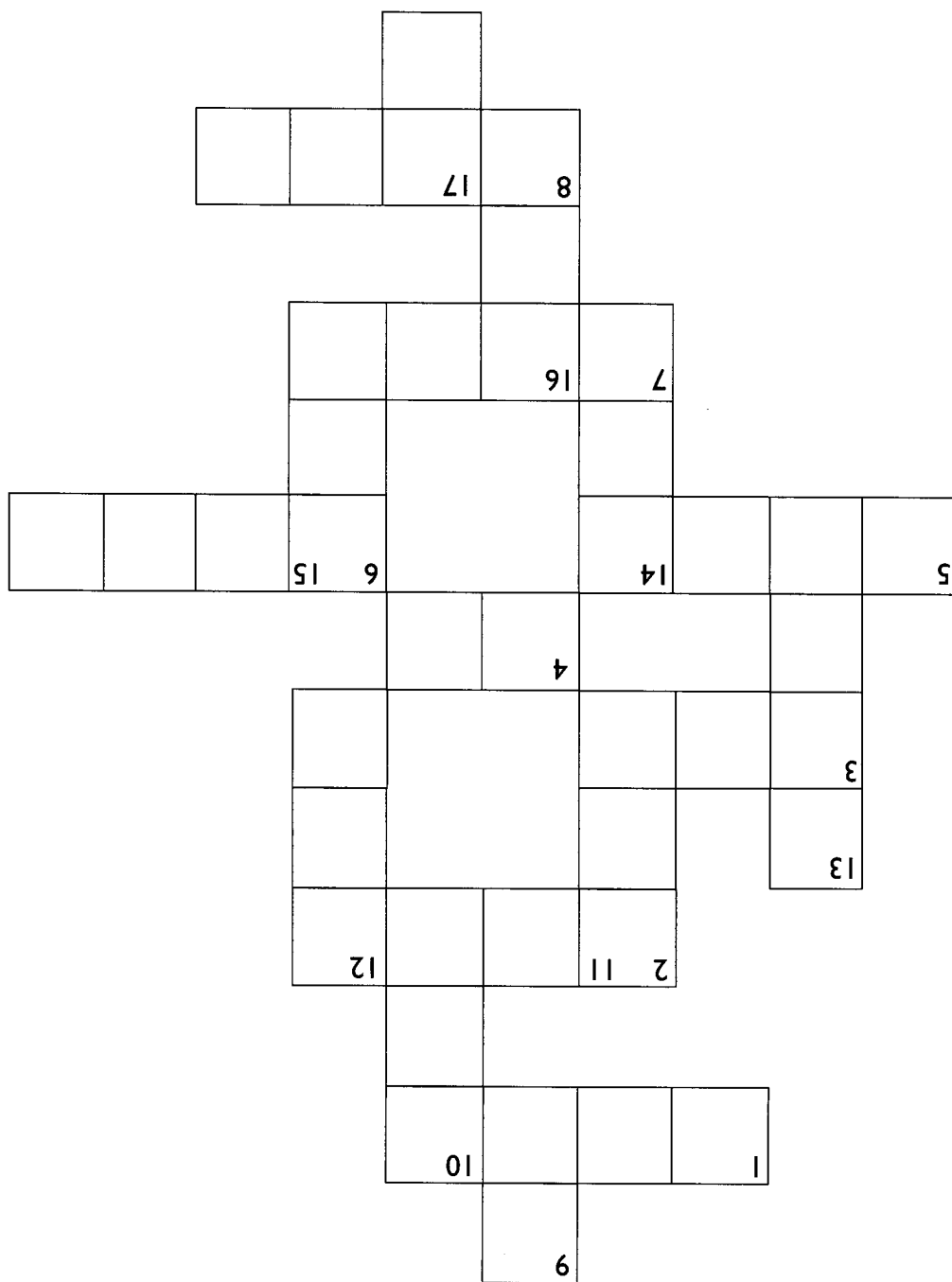
**Automatic  
Paper Stapler**  
**\$99/-**

**Air-Conditioners**  
System 1 - \$799/-  
System 2 - \$1,599/-  
System 3 - \$2,199/-

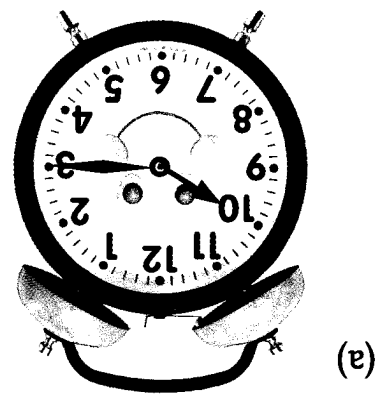
(a) Joyce bought 2 automatic paper staplers and a laser printer.  
How much did she pay?

(b) John bought a System 3 air-conditioner and a washing machine for his new house. How much did he pay?

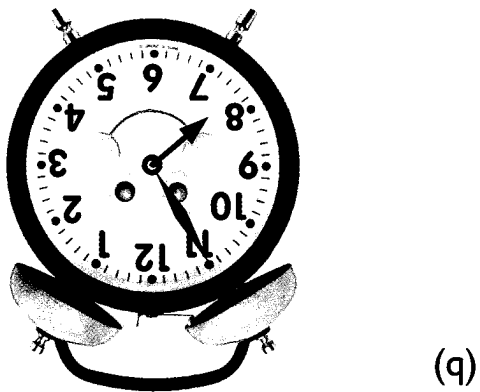
(c) Kelvin gave a \$1000 note to pay for his laser printer and the washing machine. How much change did he get?



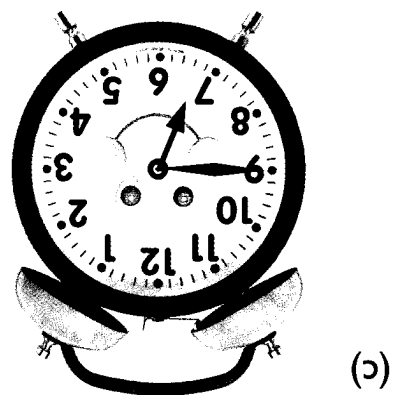
2. Fill in the blanks.



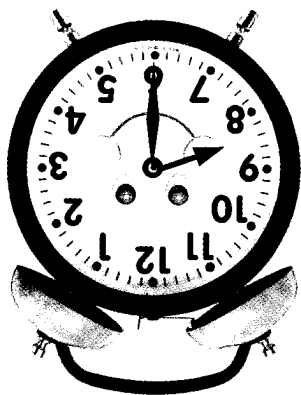
\_\_\_\_\_ min past 10



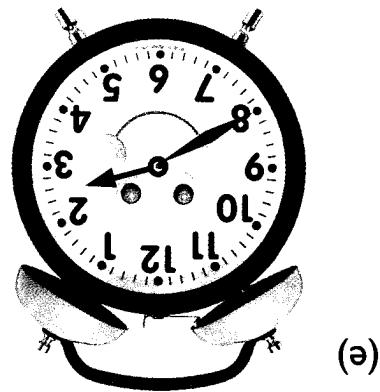
\_\_\_\_\_ min to 8



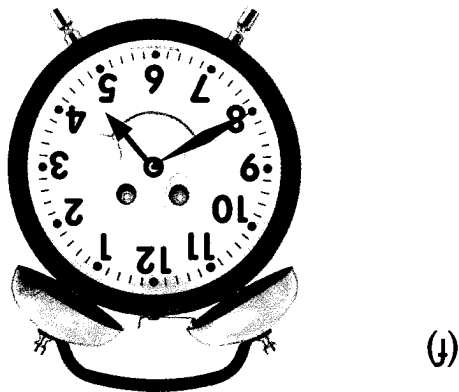
(d)



\_\_\_\_\_ min past 8



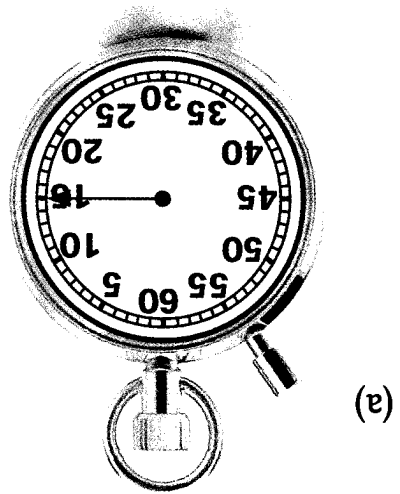
\_\_\_\_\_ 20 min to



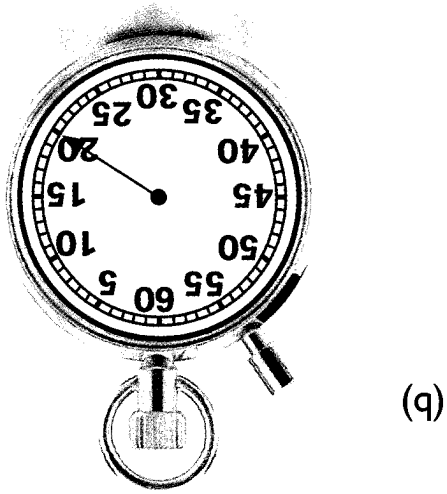
\_\_\_\_\_ 20 min to

# Exercise two

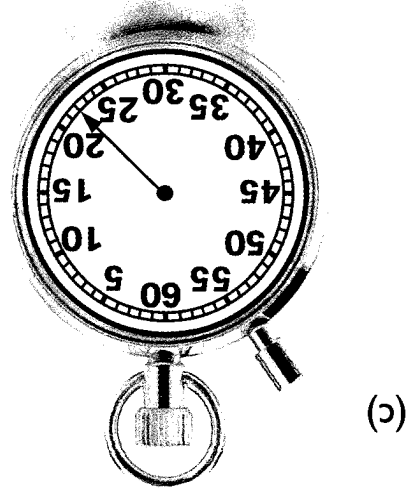
1. The diagrams below show the number of seconds that 4 runners ran for a 100 m race. Write their running time in seconds.



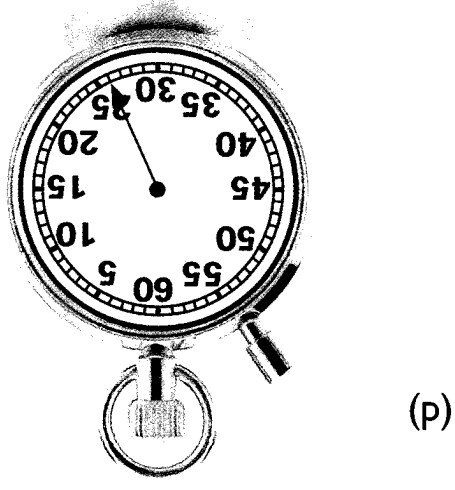
John:  s



Thomas:  s



Andy:  s



Ben:  s

Which runner ran the fastest ?

(b) Jennifer joined a dance club for 1 year ago. Her friend, Sally, joined the club 4 months ago.  
(i) Who joined the dance club earlier?

(ii) How much earlier did she join?

(iii) Sally will leave the club after 2 years. How many more months will she be with the club?

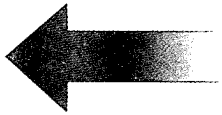
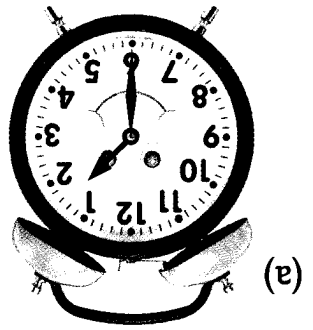
2. A soccer match usually lasts for 90 mins. A rugby match usually lasts for 1hr 20mins.
- (a) How long is a soccer match in hours and minutes?

(b) How long is a rugby match in minutes?

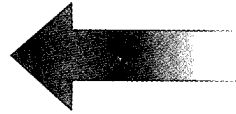
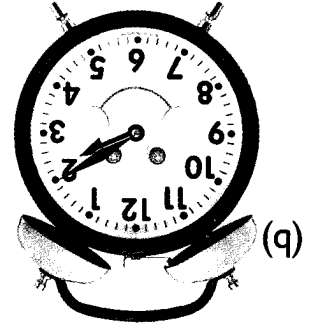
(c) Which type of match lasts longer?



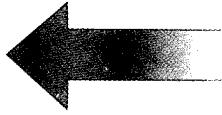
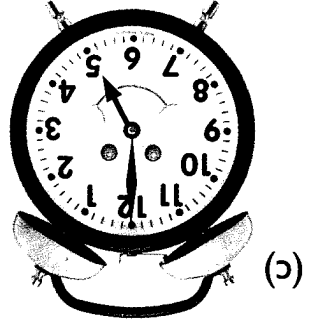
2. Look at the following clocks. They do NOT show the actual time. The clocks are slow by the minutes given below. Write the actual time in the blanks.



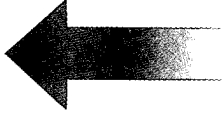
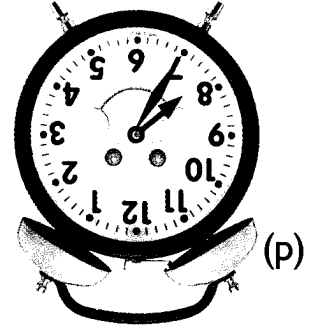
\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

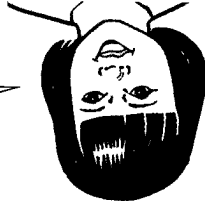


\_\_\_\_\_

4. Siti arrived in school at 9.30 a.m. Three of her friends arrived there at different times. At what time did each of them arrive in school?

(a)

Jane




I arrived  
half an hour  
after Siti!

←

(b)

Ravi




I arrived  
1h 40 min  
after Siti!

←

(c)

Mei Ling



I arrived  
55 minutes  
before Siti!

←

5. Andy took 3 h 24 min to finish his Maths homework. Fandi took 50 min less to complete the same homework. How long did Fandi take to finish the homework (give your answers in hours and minutes)?

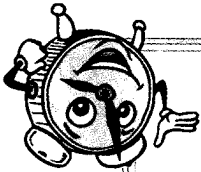
6. Minghua started watching TV at 7.15 p.m. He stopped watching TV after 2 h 45 min. At what time did he stop watching TV?

(d) Peter woke up at 15 min past 9. How much of the morning programme did he miss? Give your answer in minutes.

(c) How many minutes did John spend watching the G. I. Joe- The Movie from start to finish?

(b) Mary only watched the Powerpuff Girls and Pokemon from start to finish. How long did she spend watching TV?

(a) John switched on the TV at 8.45 a.m. He wanted to watch Rugrats. How many minutes of the programme did he miss?



The Children's Channel	
Sylvester & Tweety Mysteries	8.00
Rugrats	8.30
Batman Beyond	9.00
Digimon Adventures	9.30
The Powerpuff Girls	10.00
Pokemon	10.30
Superman Adventures	11.00
<b>PM</b>	
Lion King's Timon & Pumba	12.00
Sabrina	12.30
Beast Wars	1.00
The Zeta Project	1.30
G. I. Joe- The Movie	2.00
X-Men	4.00

9. Study the TV Programme shown below carefully and answer the questions that follow.

2. Fill in the blanks.

(a) 2459 = \_\_\_\_\_ thousands, \_\_\_\_\_ hundreds, \_\_\_\_\_ tens, \_\_\_\_\_ ones

(b) 3017 = \_\_\_\_\_ thousands, \_\_\_\_\_ hundreds, \_\_\_\_\_ tens, \_\_\_\_\_ ones

(c) 4003 = \_\_\_\_\_ thousands, \_\_\_\_\_ hundreds, \_\_\_\_\_ tens, \_\_\_\_\_ ones

(d) 7160 = \_\_\_\_\_ thousands, \_\_\_\_\_ hundreds, \_\_\_\_\_ tens, \_\_\_\_\_ ones

(e) 9476 = \_\_\_\_\_ thousands, \_\_\_\_\_ hundreds, \_\_\_\_\_ tens, \_\_\_\_\_ ones

3. Write in the numbers.

(a) Three thousand, one hundred and sixteen.

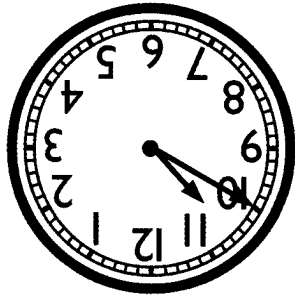
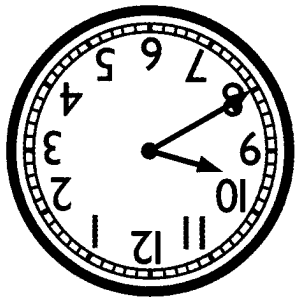
(b) Five thousand, two hundred and seventy-eight.

(c) Six thousand and sixty-six.

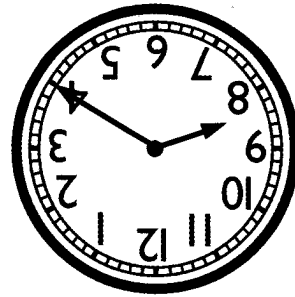
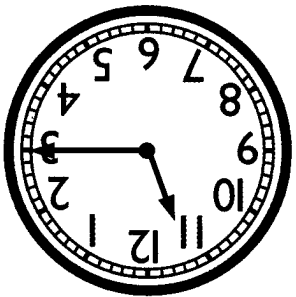
(d) Two thousand, three hundred and two.

(e) Eight thousand, nine hundred and forty-three.

6. Write 'more than', 'less than', or 'equal to' in the boxes provided.
- (a) 2200 is  3300.
- (b) 1380 is  1030
- (c) 6600 is  6600.

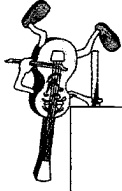


- (d) (c)



- (b) (a)

5. Write the correct time below each clock using 'past' or 'to'.



(a) 20 months = \_\_\_\_\_ year(s) \_\_\_\_\_ month(s)

(b) 13 months = \_\_\_\_\_ year(s) \_\_\_\_\_ month(s)

(c) 25 days = \_\_\_\_\_ week(s) \_\_\_\_\_ day(s)

(d) 30 days = \_\_\_\_\_ week(s) \_\_\_\_\_ day(s)

(e) 80 s = \_\_\_\_\_ min \_\_\_\_\_ s

(f) 200 s = \_\_\_\_\_ min \_\_\_\_\_ s

(g) 150 min = \_\_\_\_\_ h \_\_\_\_\_ min

(h) 300 min = \_\_\_\_\_ h \_\_\_\_\_ min

4. Fill in the blanks.

(a) 1045, 1055, \_\_\_\_\_, \_\_\_\_\_, 1085, 1095, \_\_\_\_\_

(b) 4400, \_\_\_\_\_, \_\_\_\_\_, 7400, 8400, \_\_\_\_\_

(c) \_\_\_\_\_, \_\_\_\_\_, 8000, \_\_\_\_\_, 6000, 5000.

(d) 9999, \_\_\_\_\_, 9997, \_\_\_\_\_, 9995, \_\_\_\_\_

3. Complete the number patterns.

 **Exercise three**

1. Fill in the boxes.

(a) Minghua took 40 minutes to reach his office. If he left the house at 7.30 a.m., what time did he reach his office?

(b) Joyce works from 8.30 a.m. to 12 p.m. How many hours and minutes does she work?

(c) A magic show started at 7.30 p.m. and lasted for 50 minutes. What time did it end?

2. Ahmed bought a table, a chair and a bed for \$1200. The table cost \$230. The chair cost \$80.

(a) How much did the bed cost?

(b) How much more did the bed cost than the chair?

5. There are 2152 new members in Club A. There are 180 more members in Club B than in Club A.

(a) How many members are there in Club B?

There are \_\_\_\_\_ members in Club B.

(b) How many members are there in Club A and Club B altogether?

There are \_\_\_\_\_ members altogether.