

Worksheet 6

Comparing Numbers to 1 000 000

1 Fill in the blanks.

(a) is 10 000 more than 123 000.

(b) is 100 000 more than 123 000.

(c) is 300 000 more than 123 000.

2 Fill in the blanks.

(a) is 40 000 less than 485 000.

(b) is 100 000 less than 485 000.

(c) is 400 000 less than 485 000.

3 Fill in the blanks.

(a) 712 000 is 10 000 less than .

(b) 712 000 is 10 000 more than .

(c) 712 000 is 200 000 less than .

(d) 712 000 is 200 000 more than .

4 Fill in the blanks.

(a) 236 000 is less than 238 000.

(b) 139 000 is more than 109 000.

(c) 644 000 is 50 000 less than .

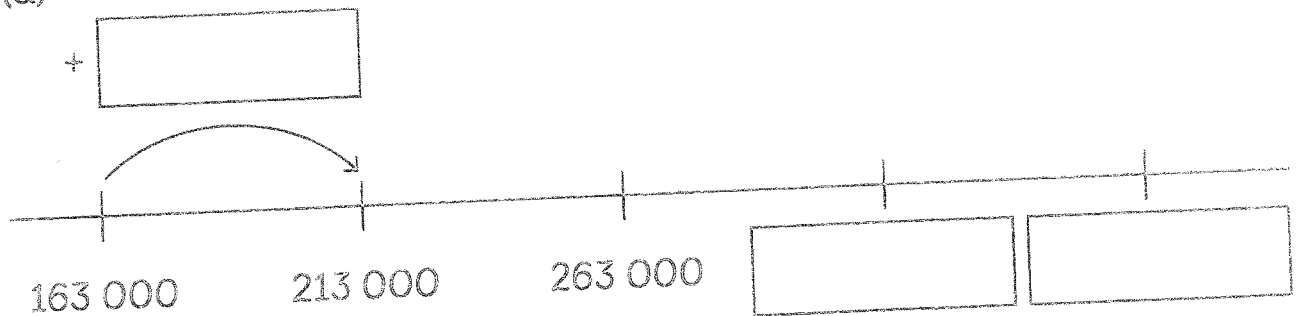
(d) 888 000 is 600 000 more than .

(e) 20 000 more than 270 000 is .

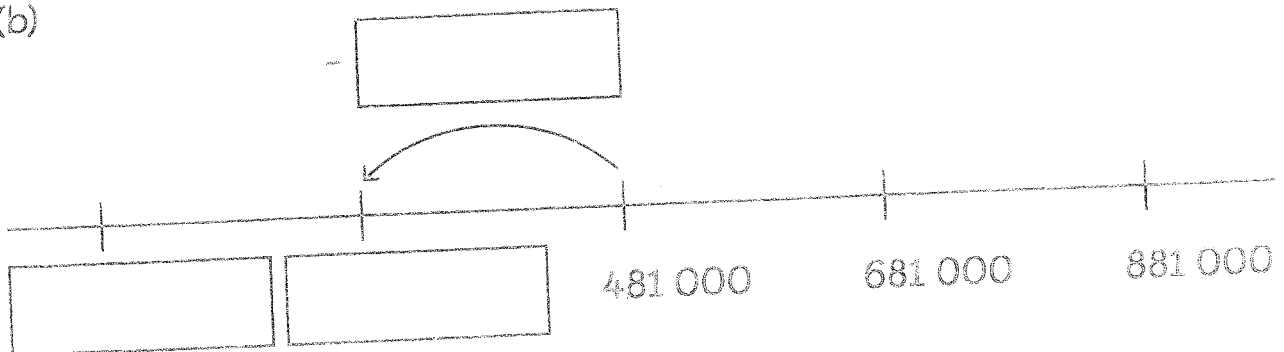
(f) 500 000 less than 703 000 is .

5 Fill in the missing numbers in the number line.

(a)



(b)



Name: _____ Class: _____ Date: _____

Worksheet 7

Comparing Numbers to 1 000 000

1 Fill in the blanks.

(a) is 50 000 more than 256 893.

(b) is 80 000 more than 256 893.

2 Fill in the blanks.

(a) is 90 000 less than 965 287.

(b) is 900 000 less than 965 287.

3 Fill in the missing numbers.

(a) 659 058 is 70 000 less than .

(b) 629 058 is 30 000 more than .

(c) 629 058 is 300 000 less than .

(d) 629 058 is 600 000 more than .

4 Fill in the missing numbers.

(a) 123 456 is more than 115 456.

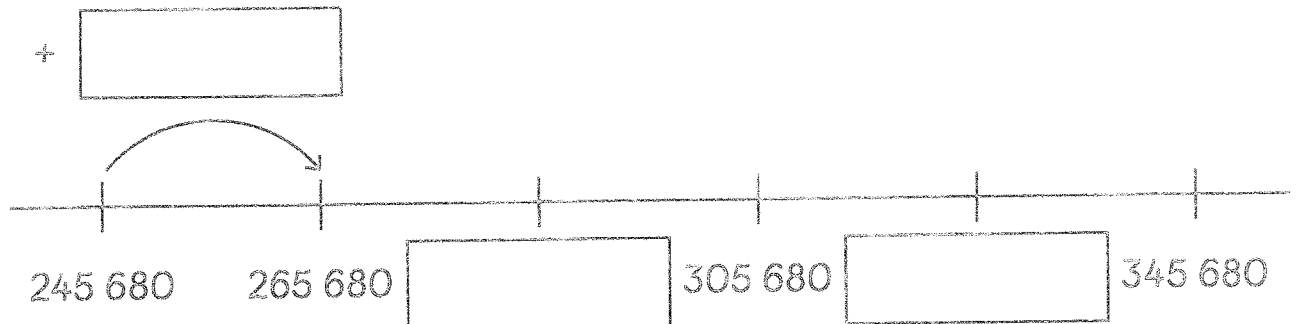
(b) 765 432 is less than 805 432.

(c) 9000 less than 210 903 is .

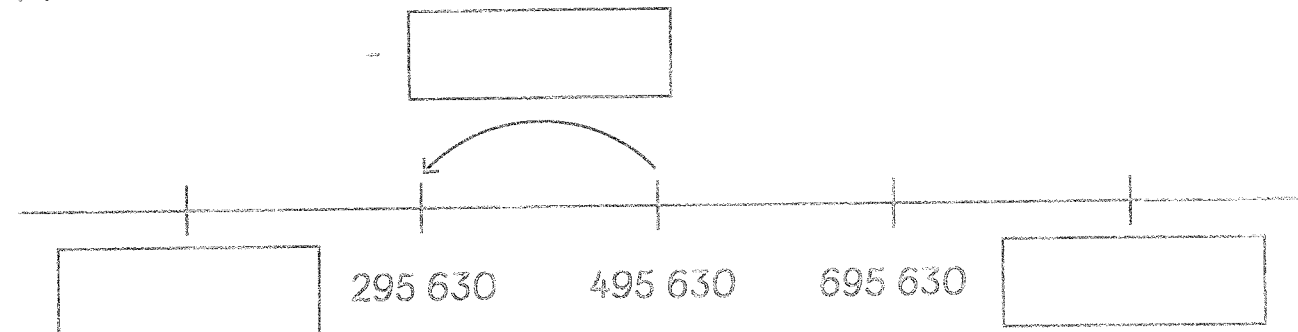
(d) 600 000 more than 364 700 is .

5 Fill in the missing numbers in the number lines.

(a)



(b)



Name: _____ Class: _____ Date: _____

Worksheet 8

Making Number Patterns

1 Complete the tables.

(a)

Number	10 000 more	20 000 more	30 000 more
678 900	688 900	698 900	708 900
432 555			
594 032			
884 640			

(b)

Number	200 000 more	400 000 more	600 000 more
182 531			
200 678			
297 480			
345 678			

(c)

Number	30 000 more	60 000 more	90 000 more
152 900			
416 837			
777 604			
825 333			

2 Complete the number patterns.

(a) 135 000, 235 000, 335 000, , 535 000

(b) 203 580, 223 580, 243 580, , 283 580

(c) 84 316, , 484 316, 684 316, 884 316

(d) 569 200, 629 200, 689 200, 749 200,

(e) 778 899, 787 899, 796 899, 805 899,

3 Complete the number patterns and describe the rules of the patterns.

(a) 112 334, 212 334, 312 334, ,

Rule of the pattern:

(b) 358 772, 388 772, 418 722, ,

Rule of the pattern:

(c) 580 600, 660 600, 740 600, ,

Rule of the pattern:

Name: _____ Class: _____ Date: _____

Worksheet 9

Making Number Patterns

1 Complete the tables.

(a)

Number	40 000 less	60 000 less	80 000 less
200 000	160 000	140 000	120 000
483 056			
514 632			
650 340			

(b)

Number	100 000 less	150 000 less	300 000 less
321 000			
489 215			
683 147			
700 423			

(c)

Number	50 000 less	100 000 less	150 000 less
375 350			
505 625			
683 147			
900 003			

2 Complete the number patterns.

(a) 621 000, 521 000, 421 000, , 221 000

(b) 210 493, , 202 493, 198 493, 194 493

(c) 543 126, , 403 126, 333 126, 263 126

(d) 832 571, 752 571, 672 571, , 512 571

(e) 926 742, 726 742, 526 742, 326 742,

3 Complete the number patterns and describe the rules of the patterns.

(a) 654 111, 554 111, 454 111, ,

Rule of the pattern:

(b) 400 400, 340 400, 280 400, ,

Rule of the pattern:

(c) 737 259, 687 259, 637 259, ,

Rule of the pattern:

Name: _____ Class: _____ Date: _____

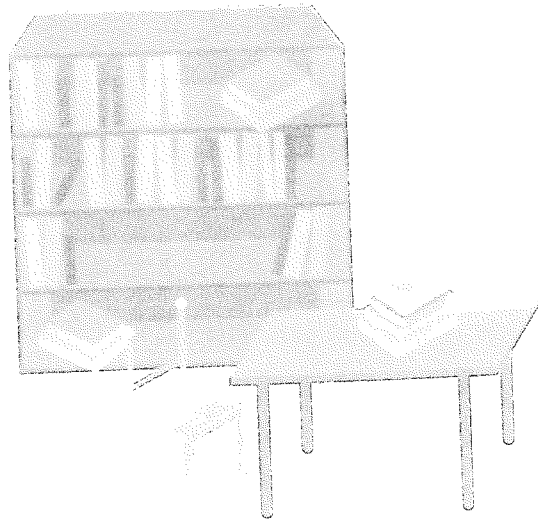
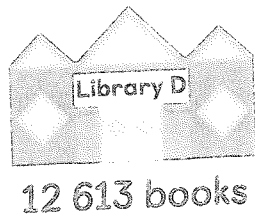
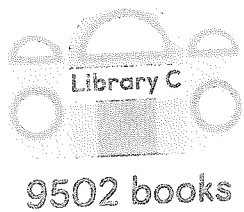
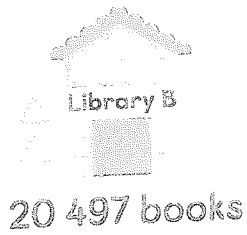
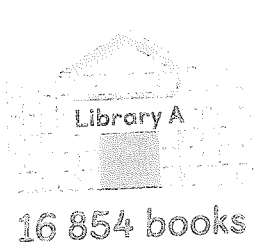
Worksheet 10

Rounding Numbers

- 1 The table shows the number of visitors to a certain theme park on a particular week.
Round the number of visitors each day to the nearest 10 000.

Day	Number of Visitors	Round to the nearest 10 000
Monday	278 659	
Tuesday	301 787	
Wednesday	329 122	
Thursday	340 154	
Friday	354 099	
Saturday	389 903	
Sunday	395 358	

2 The number of books in four different libraries are shown.



Round the number of books in each library to the nearest 10 000.

(a) Library A

(b) Library B

(c) Library C

(d) Library D

3 You are told that the number of books in Library E is 30 000, rounded to the nearest 10 000.

(a) What is the greatest possible number of books in Library E?

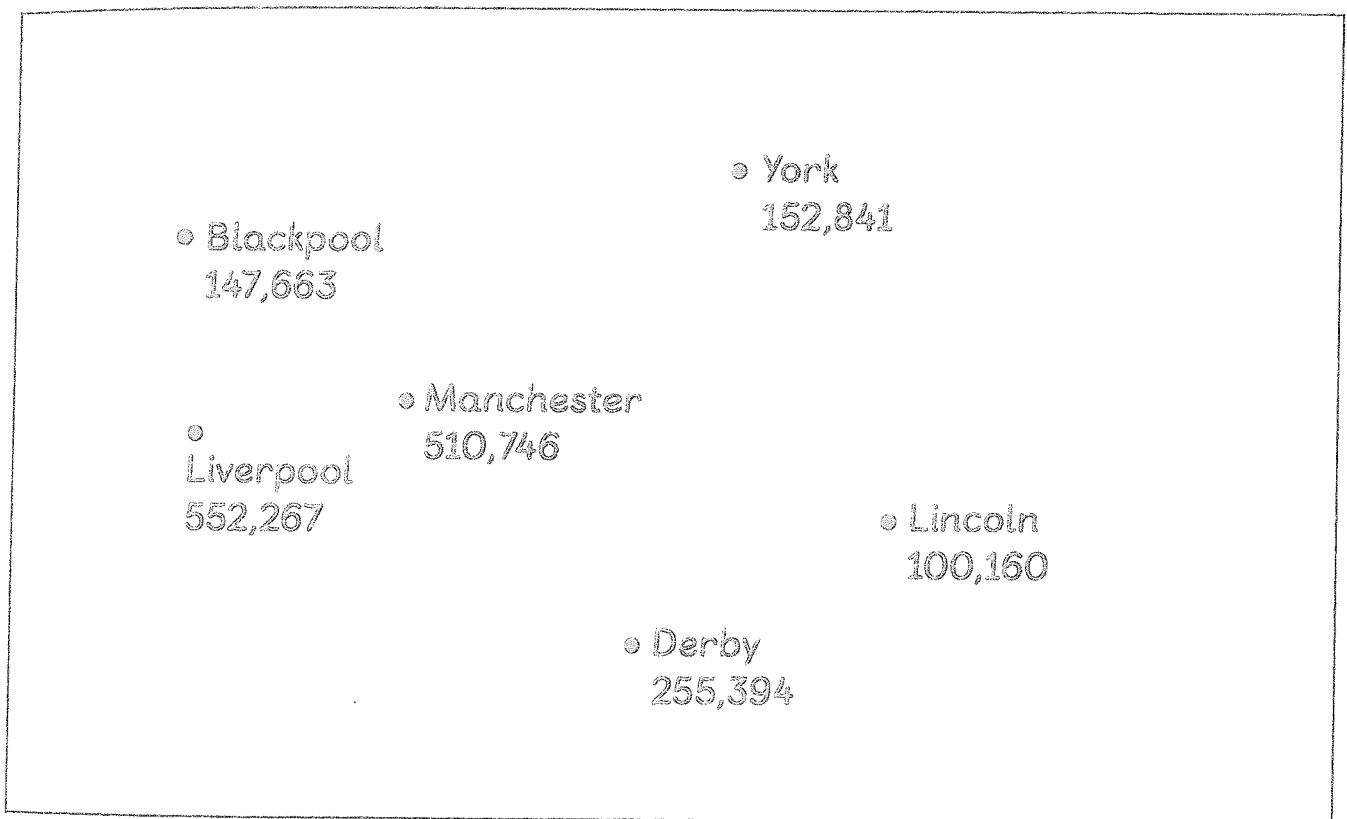
(b) What is the smallest possible number of books in Library E?

Name: _____ Class: _____ Date: _____

Worksheet 11

Rounding Numbers

1 The population of six cities according to a website is shown.



Round the population of the cities to the nearest 100 000.

(a) Blackpool

(b) York

(c) Manchester

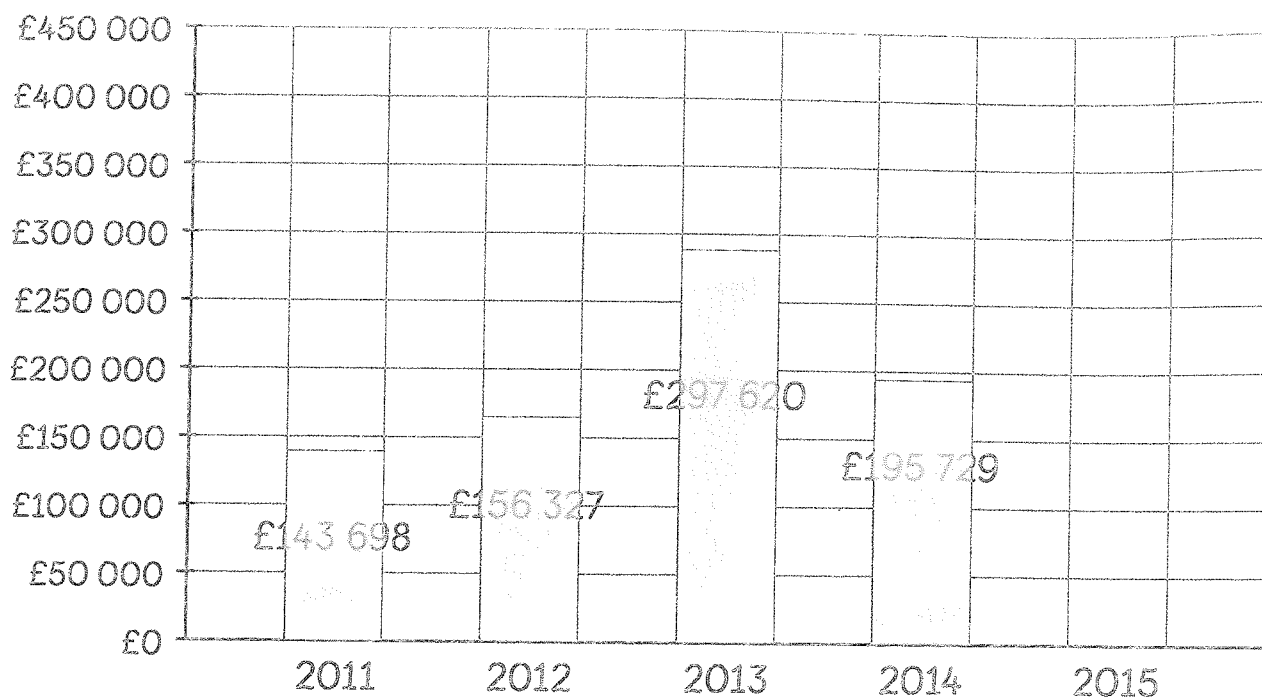
(d) Liverpool

(e) Derby

(f) Lincoln

2

The bar graph shows the amount of money collected from a certain annual charity event from 2011 to 2014.



- (a) Round the amounts collected from the charity event to the nearest £100 000.

2011	£ <input type="text"/>	2013	£ <input type="text"/>
2012	£ <input type="text"/>	2014	£ <input type="text"/>

- (b) You are told that the amount collected in 2015 was £400 000, rounded to the nearest £100 000.

What was the greatest possible amount of money collected?

£

What was the smallest possible amount of money collected?

£

Name: _____ Class: _____ Date: _____

Worksheet 12

Rounding Numbers

1 This table shows how many cans of drink a factory produced over 6 weeks.

	Number of cans
Week 1	256 389
Week 2	302 561
Week 3	284 677
Week 4	357 618
Week 5	415 037
Week 6	399 512

How many cans of drink were produced?

(a) Give your answer to the nearest 10 000.

Week 1

Week 4

(b) Give your answer to the nearest 100 000.

Week 2

Week 6

- (c) In which three weeks did the factory produce 300 000 cans of drink after rounding to the nearest 100 000?

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- (d) In a certain week, the number of cans produced is the same after rounding to the nearest 1000, 10 000 and 100 000. Which week is that?

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2 Complete the table.

Number	Round to nearest 10	Round to nearest 100	Round to nearest 1000
167 123			
256 539			
300 555			
406 895			

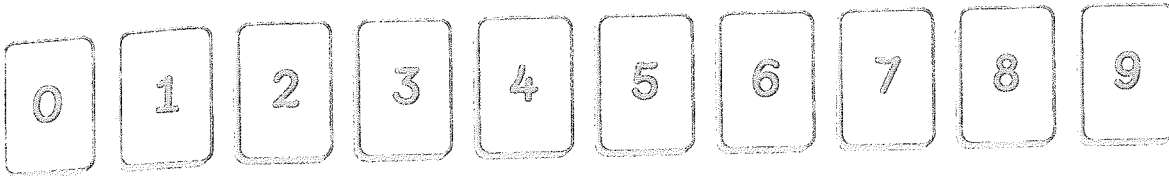
3 Complete the table.

Number	Round to nearest 1000	Round to nearest 10 000	Round to nearest 100 000
151 515			
305 366			
730 657			
909 988			

Mind Workout

Date: _____

Charles picked 6 cards from these 10 digit cards to form a 6-digit number.



then asked to guess what number he made.
These are the hints he gave her.

1. Only the first digit is an odd number.
2. The digit in the ten thousands place is twice the digit in the ones place.
3. The number is 800 000 when rounded to the nearest 100 000.
4. The number is the same if you round it to the nearest 10 000 and to the nearest 1000.

What is the number?



The odd digits are
1, 3, 5, 7 and 9.



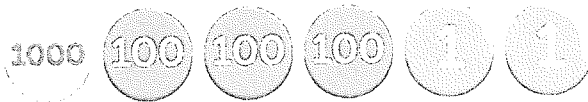


Name: _____ Class: _____ Date: _____


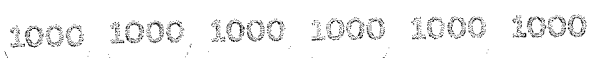
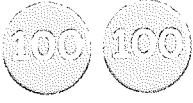
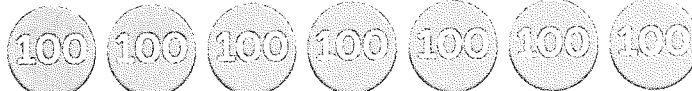
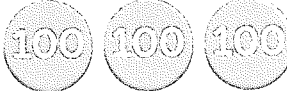


Review 1

1 Count and then write the numbers in numerals and in words.

(a)

(b)

2

164 983

The digit is in the hundred thousands place.

The digit is in the ten thousands place.

The digit 8 stands for .

The digit 4 is in the place.

The digit 9 is in the place.

3 Fill in the blanks.

(a) $57\,605 = \boxed{} + 7000 + \boxed{} + 5$

(b) $278\,423 = 200\,000 + \boxed{} + \boxed{} + 400 + 23$

(c) $625\,788 = \boxed{} + 20\,000 + 5000 + \boxed{} + 80 + 8$

4 Fill in the blanks with < or >.

(a) $195\,637 \boxed{\phantom{< >}} 200\,301$

(b) $420\,015 \boxed{\phantom{< >}} 419\,865$

(c) $674\,311 \boxed{\phantom{< >}} 673\,411$

5 Arrange the numbers in ascending order.

123 045

123 450

132 540

123 054

, , ,

6 Arrange the numbers in descending order.

400 560

450 600

560 400

564 000

, , ,

7 Find the missing numbers.

(a) 708 233 is more than 698 233.

(b) 675 109 is 40 000 less than .

(c) 200 000 less than 610 387 is .

(d) is 9000 less than 547 200.

(e) more than 374 980 is 404 980.

8 Complete the table.

Number	Round to nearest 1000	Round to nearest 10 000	Round to nearest 100 000
545 454			
401 368			

9 A number rounded to the nearest 100 000 is 600 000.

(a) What is the greatest number it could be?

(b) What is the smallest number it could be?

Whole Numbers: Addition and Subtraction

Chapter
2

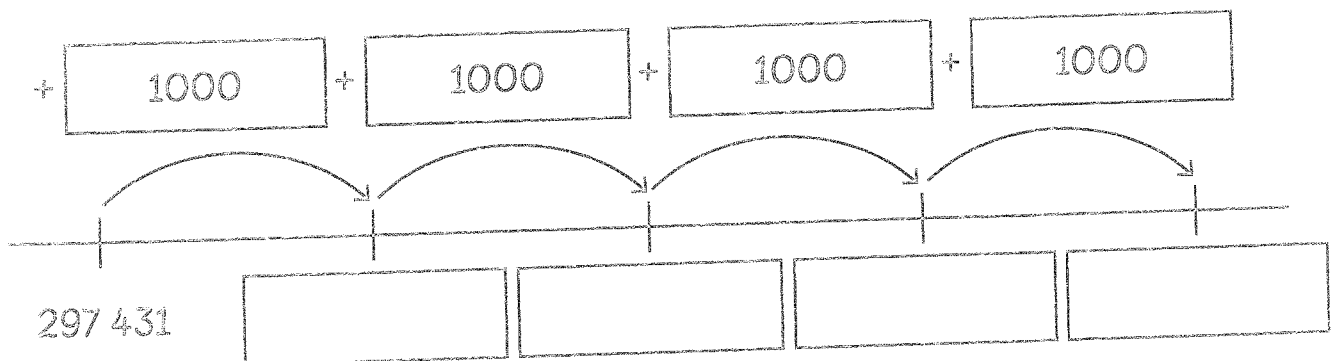
Name: _____ Class: _____ Date: _____

Worksheet 1

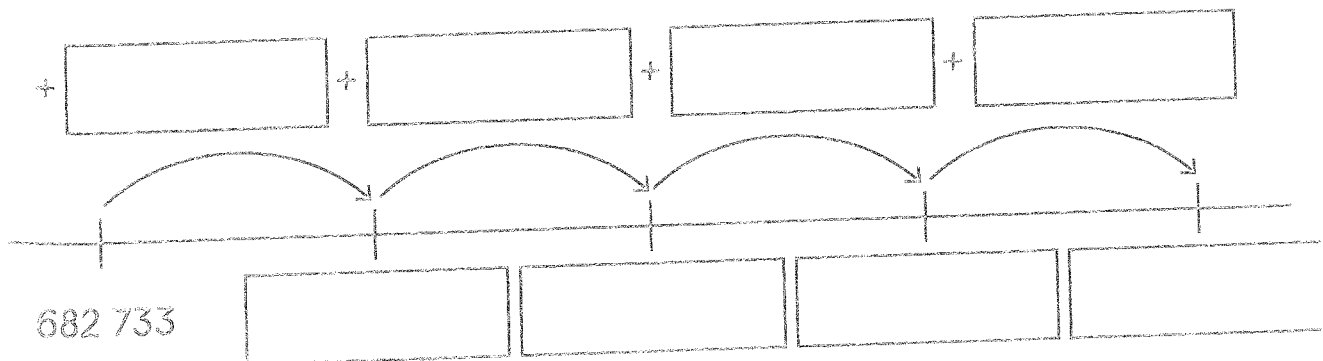
Counting On to Add

1 Count on and fill in the blanks.

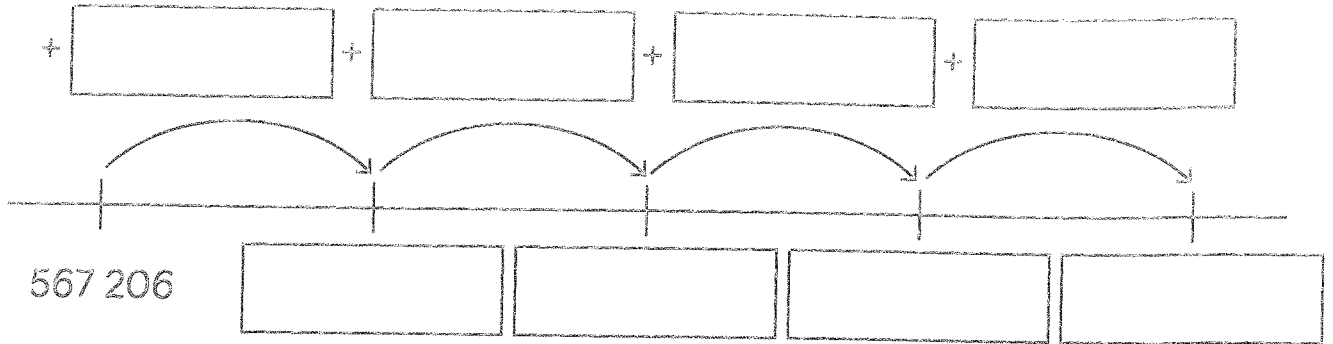
(a) $297\,431 + 4\,000 =$



(b) $682\,733 + 40\,000 =$



(c) $567\,206 + 400\,000 =$



2 Add mentally and match.

$361\,854 + 60$	●	●	$737\,851$
$227\,851 + 600\,000$	●	●	$361\,824$
$757\,851 + 80\,000$	●	●	$361\,924$
$356\,394 + 5000$	●	●	$827\,851$
$360\,924 + 900$	●	●	$817\,851$
$808\,851 + 9000$	●	●	$727\,851$
$361\,834 + 90$	●	●	$837\,851$
$667\,851 + 70\,000$	●	●	$361\,394$
$327\,851 + 400\,000$	●	●	$361\,914$

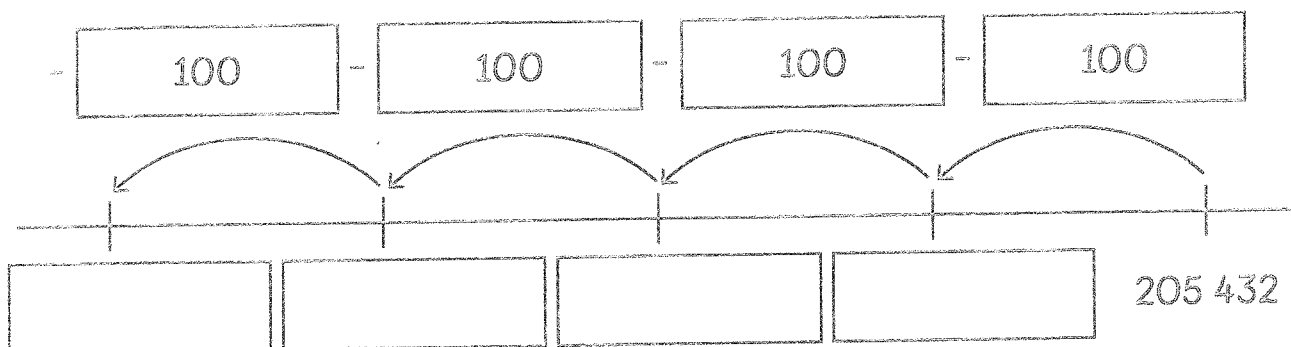
Name: _____ Class: _____ Date: _____

Worksheet 2

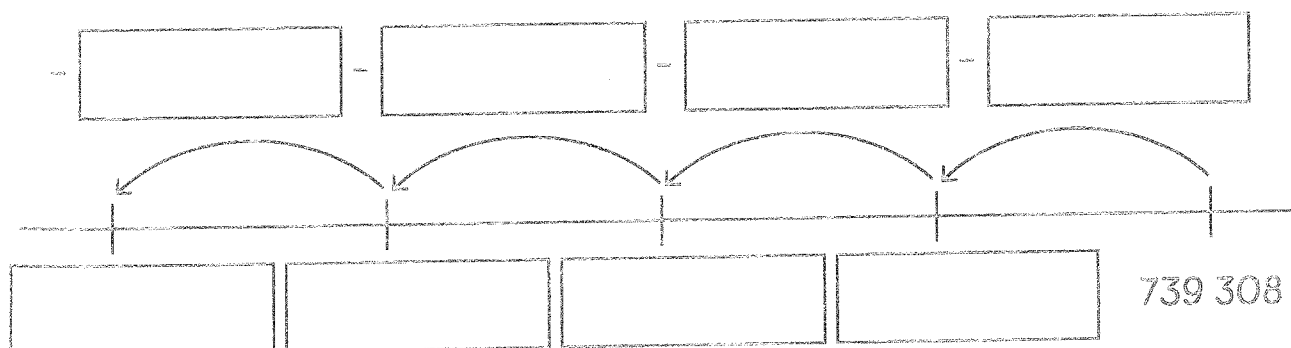
Counting Backwards to Subtract

1 Count backwards and fill in the blanks.

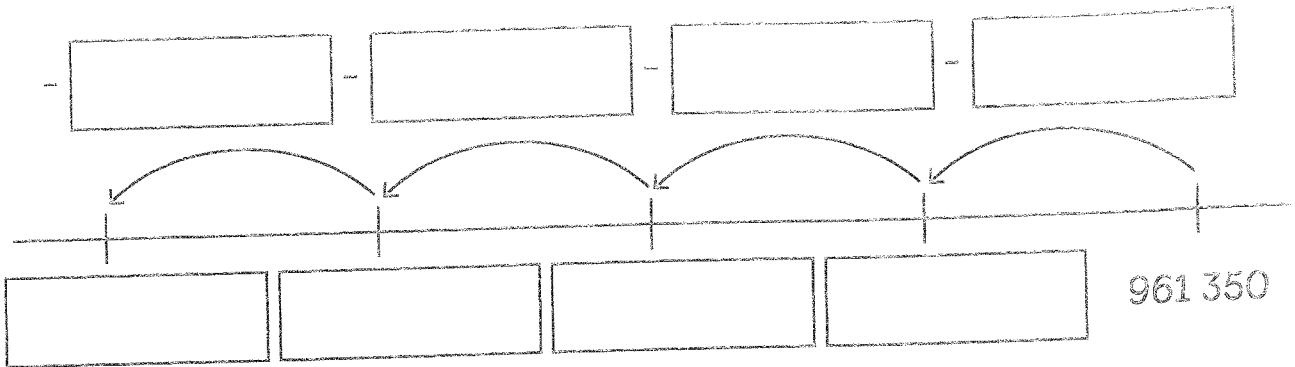
(a) $205\,432 - 400 =$



(b) $739\,308 - 40\,000 =$



(c) $961\,350 - 400\,000 =$



2 Subtract mentally and then match.

$128\,543 - 600$ ●

$569\,801 - 70\,000$ ●

$127\,923 - 80$ ●

$133\,843 - 5000$ ●

$798\,801 - 300\,000$ ●

$129\,643 - 700$ ●

$599\,801 - 80\,000$ ●

$908\,801 - 400\,000$ ●

$131\,043 - 4000$ ●

● $499\,801$

● $128\,943$

● $127\,943$

● $498\,801$

● $519\,801$

● $127\,043$

● $128\,843$

● $508\,801$

● $127\,843$

Name: _____ Class: _____ Date: _____

Worksheet 3

Adding within 1 000 000

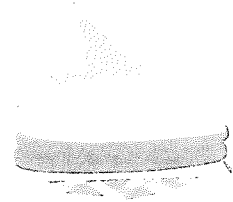
1 This is the saver meal menu of a certain fast-food stall in Jakarta, Indonesia.



Rp 34 000



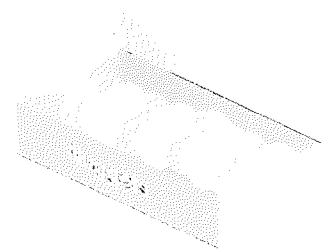
Rp 26 000



Rp 32 000



Rp 32 000



- (a) The total cost of a Chicken Burger and a Chicken Nuggets Saver Meal is Rp _____.
- (b) The total cost of 3 Fish Burger Saver Meals is Rp _____.
- (c) The total cost of 2 Cheese Burger Saver Meals and a Chicken Burger Saver Meal is Rp _____.
- (d) Which two different Saver Meals cost Rp 60 000 altogether?

2 Find the sums.

(a) $87\ 000 + 12\ 000 =$

(b) $870\ 000 + 12\ 000 =$

(c) $870\ 000 + 120\ 000 =$

(d) $56\ 000 + 5\ 000 =$

(e) $56\ 000 + 65\ 000 =$

(f) $560\ 000 + 340\ 000 =$

3 Add.

(a)

	1	2	3	0	0	0
+		4	5	0	0	0
<hr/>						

(b)

	1	6	5	0	0	0
+	2	1	3	0	0	0
<hr/>						

(c)

	3	6	3	0	0	0
+	4	2	7	0	0	0
<hr/>						

(d)

	4	0	1	0	0	0
+	5	8	3	0	0	0
<hr/>						

Name: _____ Class: _____ Date: _____

Worksheet 4

Adding and Subtracting within 1 000 000

- 1 A clothing store in Jakarta, Indonesia, is selling their merchandise at these prices.



- (a) The difference between the price of the long-sleeved shirt and the price of the T-shirt is Rp .
- (b) How much more do the jeans cost than the summer dress? Rp .
- (c) How much more do the trainers cost than the flip flops? Rp .
- (d) Together, the summer dress and the flip flops cost Rp less than the trainers.

2 Find the difference.

$$(a) \quad 35\,000 - 14\,000 = \boxed{}$$

$$(b) \quad 48\,000 - 5\,000 = \boxed{}$$

$$(c) \quad 770\,000 - 9\,000 = \boxed{}$$

$$(d) \quad 805\,000 - 25\,000 = \boxed{}$$

$$(e) \quad 470\,000 - 240\,000 = \boxed{}$$

$$(f) \quad 950\,000 - 350\,000 = \boxed{}$$

3 Subtract.

$$(a) \quad \begin{array}{r} 1\ 4\ 7\ 0\ 0\ 0 \\ - \quad 2\ 1\ 0\ 0\ 0 \\ \hline \end{array}$$

$$(b) \quad \begin{array}{r} 2\ 9\ 8\ 0\ 0\ 0 \\ - \quad 2\ 4\ 0\ 0\ 0 \\ \hline \end{array}$$


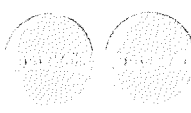
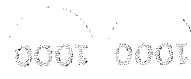
$$(c) \quad \begin{array}{r} 3\ 9\ 9\ 0\ 0\ 0 \\ - \quad 1\ 6\ 0\ 0\ 0 \\ \hline \end{array}$$

$$(d) \quad \begin{array}{r} 6\ 5\ 7\ 0\ 0\ 0 \\ - \quad 4\ 5\ 3\ 0\ 0\ 0 \\ \hline \end{array}$$

Worksheet 5

Adding within 1 000 000

1 Ravi finds the sum of 22 000 and 103 000 by drawing number discs.



$$22\ 000 + 103\ 000 = \boxed{}$$

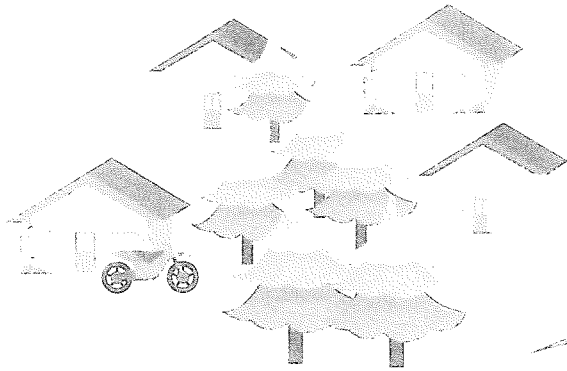
Use Ravi's method to add the following.



$$(a) \quad 123\ 000 + 210\ 000 = \boxed{}$$

$$(b) \quad 405\ 000 + 223\ 000 = \boxed{}$$

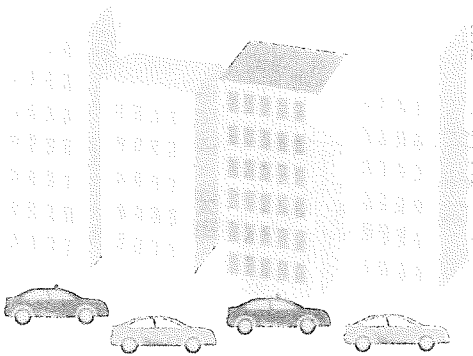
2 Four towns in a certain country have the following populations.



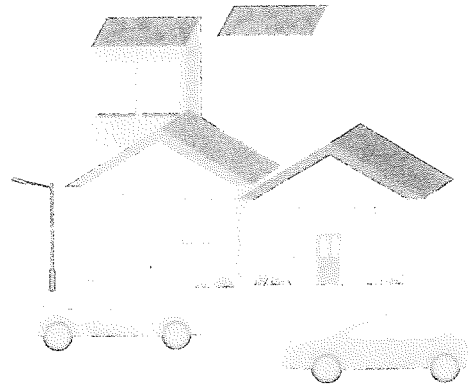
Townsville 230 658



Hillsville 159 712



Queenstown 68 524



Kingstown 27 839

(a) What is the total population of Kingstown and Queenstown?

(b) What is the total population of Hillsville and Townsville?

(c) What is the total population of the 4 towns?

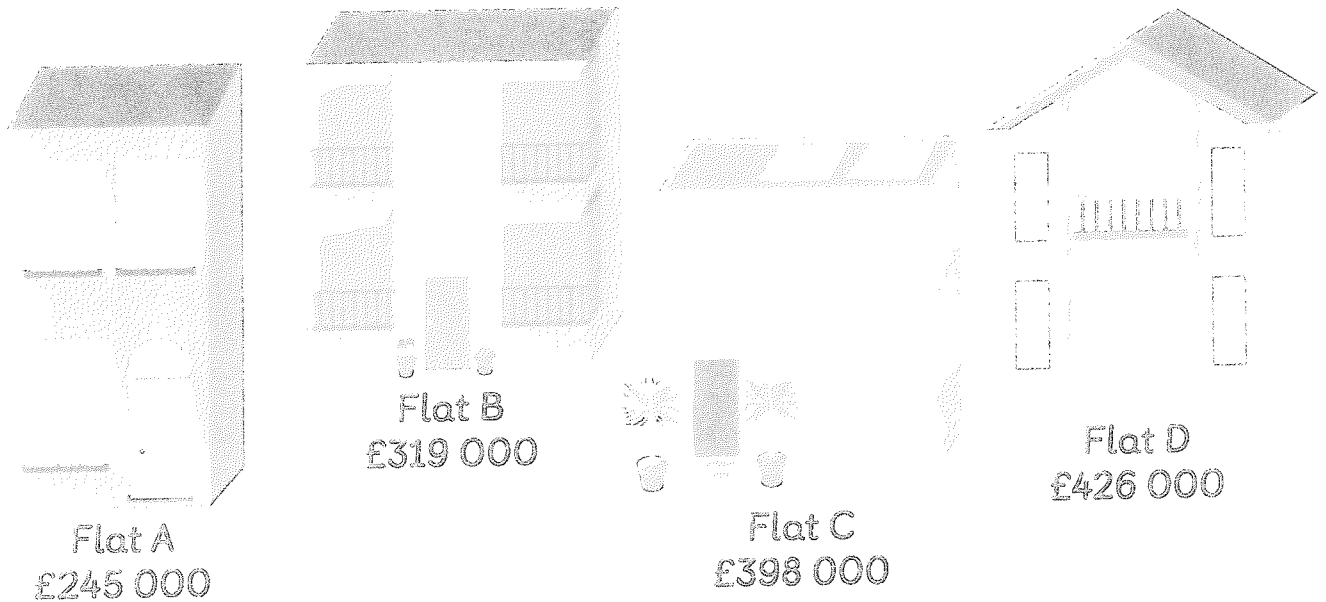
(d) Which two towns together have a total population of between 100 000 and 200 000?

 and

Worksheet 6

Subtracting within 1 000 000

- 1 Four different flats are listed for sale in an advertisement.



(a) Flat C costs £ more than flat A.

(b) Flat B costs £ less than flat C.

(c) Mr Smith has £286 000 in savings and Mrs Smith has £42 000 in savings. Which flats can they afford with their total savings?

and

(d) Ruby's father wants to buy Flat D but he only has £398 000. How much more money does he need?

2 Subtract and match.

$523\ 000 - 428\ 000$

$105\ 000$

$448\ 000 - 343\ 000$

$310\ 000$

$278\ 000 - 53\ 000$

$95\ 000$

$657\ 000 - 568\ 000$

$89\ 000$

$786\ 000 - 476\ 000$

$99\ 000$

$201\ 000 - 102\ 000$

$120\ 000$

$515\ 000 - 395\ 000$

$125\ 000$

$803\ 600 - 453\ 600$

$225\ 000$

$435\ 000 - 310\ 000$

$407\ 000$

$445\ 000 - 38\ 000$

$350\ 000$

Worksheet 7

Adding and Subtracting within 1 000 000

1 This is how  finds the sum of 3 numbers.

$$24\ 000 + 53\ 000 + 126\ 000 = ?$$

$$24\ 000 + 53\ 000 = 77\ 000$$

$$77\ 000 + 126\ 000 = 203\ 000$$

$$24\ 000 + 53\ 000 + 126\ 000 = \boxed{}$$



Use  's method to fill in the blanks.

(a) $234\ 000 + 66\ 000 + 198\ 000 = \boxed{ ?}$

$$234\ 000 + 66\ 000 = \boxed{}$$

$$\boxed{} + 198\ 000 = \boxed{}$$

$$234\ 000 + 66\ 000 + 198\ 000 = \boxed{}$$

(b) $367\ 000 + 109\ 000 + 254\ 000 = \boxed{ ?}$

$$\boxed{} + \boxed{} = \boxed{}$$

$$\boxed{} + \boxed{} = \boxed{}$$

$$367\ 000 + 109\ 000 + 254\ 000 = \boxed{}$$

2 Find the sums.

$37 + 48 = ?$



(a) $37\ 000 + 48\ 000 =$

(b) $258\ 000 + 146\ 000 =$

(c) $196\ 000 + 53\ 000 =$

(d) $99\ 000 + 311\ 000 =$

(e) $657\ 000 + 194\ 000 =$

3 Find the differences.

$47 - 38 = ?$



(a) $47\ 000 - 38\ 000 =$

(b) $165\ 000 - 86\ 000 =$

(c) $302\ 000 - 144\ 000 =$

(d) $379\ 000 - 191\ 000 =$

(e) $780\ 000 - 87\ 000 =$

Worksheet 8

Adding within 1 000 000

1 Using all the digits below, make two 5-digit numbers.

0, 1, 2, 3, 4, 5, 6, 7, 8, 9

(a) Which two numbers can we make to give the greatest sum?
Write down the addition fact.

$$\boxed{} + \boxed{} = \boxed{}$$

(b) Which two numbers can we make to give the smallest sum?
Write down the addition fact.

$$\boxed{} + \boxed{} = \boxed{}$$

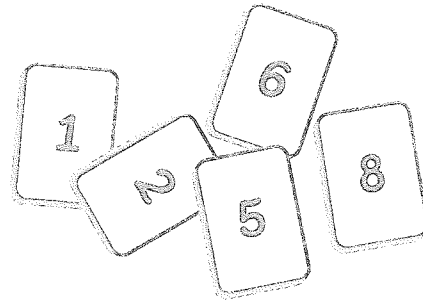
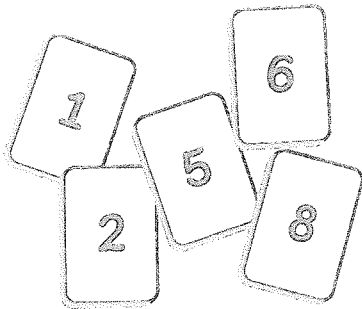
(c) Write down three more addition facts, each of which has a sum of more than 200 000 but less than 300 000.

$$\boxed{} + \boxed{} = \boxed{}$$

$$\boxed{} + \boxed{} = \boxed{}$$

$$\boxed{} + \boxed{} = \boxed{}$$

2 Using only the digits 1, 2, 5, 6 and 8:



(a) Form the greatest odd number.

(b) Form the smallest odd number.

(c) Form two different 5-digit numbers that will give the greatest sum.
Write down the addition fact.

 + =

(d) Form two different 5-digit numbers that will give the smallest sum.
Write down the addition fact.

 + =

Worksheet 9

Subtracting within 1 000 000

1 This is 's method of finding the difference between 32 459 and 11 574.

$$32\ 459 - 11\ 574 = \boxed{\quad ? \quad}$$

$$\begin{array}{r} 3\ 1\ 0\ 0\ 0 \\ - 1\ 1\ 0\ 0\ 0 \\ \hline 2\ 0\ 0\ 0\ 0 \end{array}$$

$$\begin{array}{r} 1\ 4\ 5\ 9 \\ - 5\ 7\ 4 \\ \hline 8\ 8\ 5 \end{array}$$

$$32\ 459 - 11\ 574 = \boxed{\quad \quad \quad}$$

Find the difference using 's method.

(a) $75\ 321 - 12\ 456 = \boxed{\quad \quad \quad}$

$$\begin{array}{r} 7\ 4\ 0\ 0\ 0 \\ - 1\ 2\ 0\ 0\ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 3\ 2\ 1 \\ - 4\ 5\ 6 \\ \hline \end{array}$$

(b) $113\ 248 - 57\ 304 = \boxed{\quad \quad \quad}$

$$\begin{array}{r} 1\ 1\ 2\ 0\ 0\ 0 \\ - 5\ 7\ 0\ 0\ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 2\ 4\ 8 \\ - 3\ 0\ 4 \\ \hline \end{array}$$

(c) $470\,259 - 169\,330 =$

$$\begin{array}{r} 4\ 7\ 0\ 2\ 5\ 9 \\ - 1\ 6\ 9\ 3\ 3\ 0 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 2\ 5\ 9 \\ - 3\ 3\ 0 \\ \hline \end{array}$$

(d) $668\,197 - 98\,239 =$

$$\begin{array}{r} 6\ 6\ 8\ 1\ 9\ 7 \\ - 9\ 8\ 2\ 3\ 9 \\ \hline \end{array}$$

$$\begin{array}{r} 1\ 1\ 9\ 7 \\ - 2\ 3\ 9 \\ \hline \end{array}$$

(e) $700\,700 - 323\,232 =$

$$\begin{array}{r} 7\ 0\ 0\ 7\ 0\ 0 \\ - 3\ 2\ 3\ 2\ 3\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} 7\ 0\ 0 \\ - 2\ 3\ 2 \\ \hline \end{array}$$

2 Subtract.

(a) $54\,321 - 45\,321 =$

(b) $680\,240 - 531\,795 =$

(c) $240\,680 - 135\,795 =$

(d) $678\,100 - 88\,654 =$

Worksheet 10

Subtracting within 1 000 000


1  uses this method to find the difference between 23 134 and 12 607.

$$23\ 134 - 12\ 607 = \boxed{}$$

2	²	¹¹	²	¹⁴
2	3	1	3	4
-	1	2	6	0
	7	7	7	7

	1	0	5	2
			7	7



Find the difference using 's method.

(a) $65\ 724 - 45\ 678 = \boxed{}$

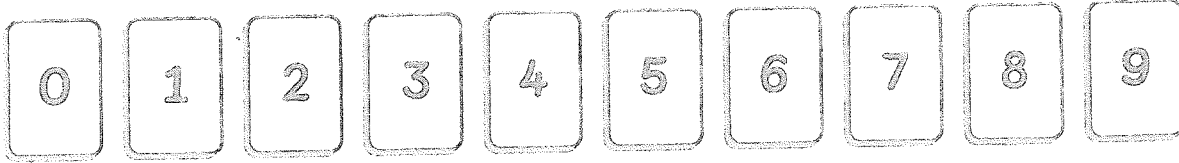
	6	5	7	2	4
-	4	5	6	7	8

(b) $248\ 135 - 88\ 473 = \boxed{}$

	2	4	8	1	3	5
-		8	8	4	7	3

Mind Workout

Date: _____



Using all the digit cards above, make two 5-digit numbers so that:

- (a) the two numbers have the greatest difference.
- (b) the two numbers have the smallest difference.

Review 2

1 Add mentally and match.

$197\ 365 + 800$

$198\ 265$

$190\ 265 + 8000$

$198\ 165$

$118\ 365 + 80\ 000$

$198\ 365$

$181\ 365 + 800\ 000$

$981\ 365$

2 Subtract and match.

$612\ 525 - 90$

$612\ 235$

$613\ 235 - 900$

$612\ 335$

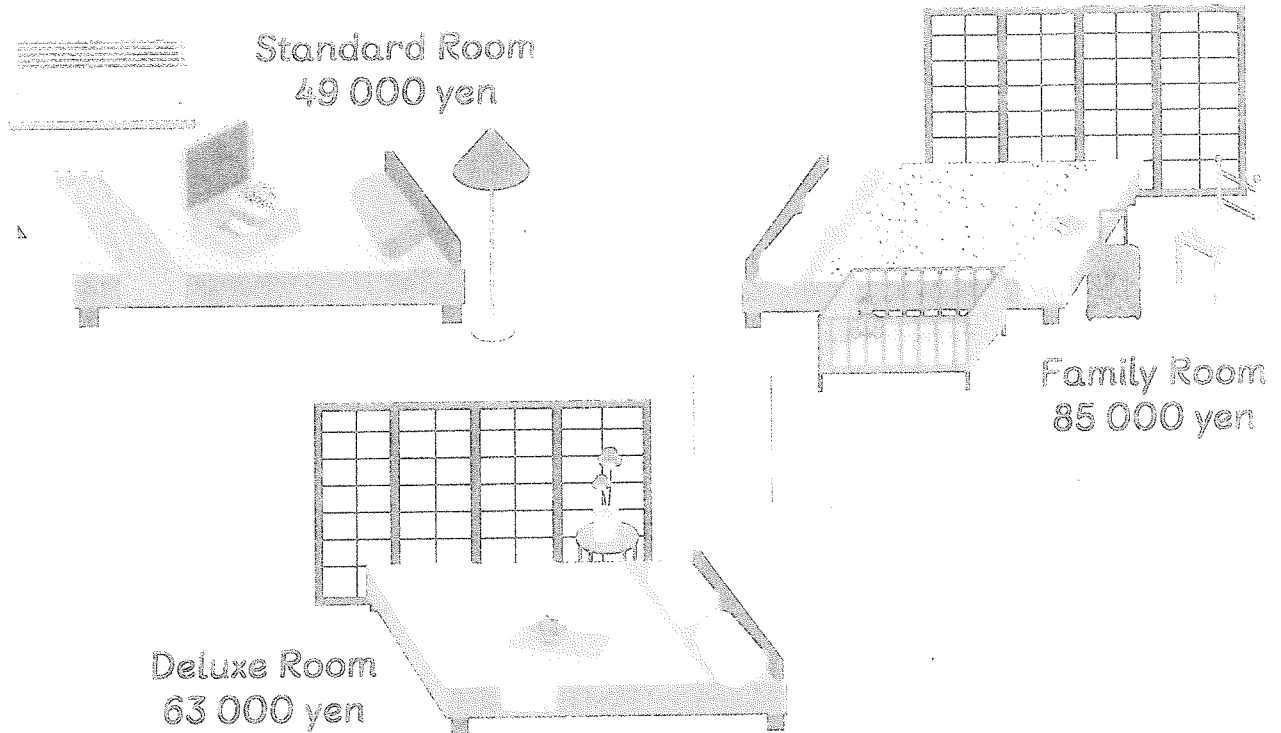
$620\ 235 - 9000$

$612\ 435$

$702\ 235 - 90\ 000$

$611\ 235$

3 A hotel in a Japanese city listed its room rate per night on its website.




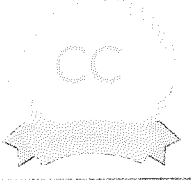

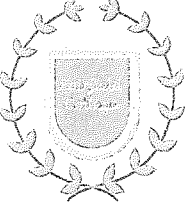
(a) How much does it cost to book a standard room for two nights?

(b) How much does it cost to book 2 deluxe rooms for two nights?

(c) How much more does it cost to book a 2-night stay in a deluxe room than in a standard room?

(d) Mr Smith stayed in the deluxe room for one night.
He gave the cashier 70 000 yen.
How much change should he get from the cashier?

4 The table shows the student enrolment for four colleges in a certain country,

	College	Number of students
	National College	36 600
	City College	26 453
	World College	30 154
	Fairfield College	15 000

- (a) There are more students in National College than in Fairfield College.
- (b) Which two colleges have a total enrolment of more than 60 000 but less than 65 000?
- (c) If there is a total of 22 154 girls in World College and Fairfield College, how many boys are there altogether in the two colleges?
- (d) There are more students in City College and World College combined than there are in National College.

5 Find the sums.

(a) $27\ 000 + 69\ 000 =$

(b) $199\ 000 + 23\ 000 =$

(c) $456\ 000 + 345\ 000 =$

(d) $248\ 000 + 16\ 200 =$

(e) $20\ 685 + 17\ 942 =$

(f) $331\ 078 + 139\ 475 =$

6 Find the differences.

(a) $63\ 000 - 44\ 000 =$

(b) $276\ 000 - 96\ 000 =$

(c) $550\ 000 - 382\ 000 =$

(d) $483\ 500 - 247\ 000 =$

(e) $68\ 368 - 57\ 936 =$

(f) $767\ 676 - 353\ 535 =$