4 Mental + and –

A The Basics

Adding and subtracting can be done mentally by splitting the second number. Think about how to get a tidy number.

Examples : a) 84 + 8 = ... b) 71 – 6 = ...

Think : a) 84 + 8 = 84 + 6 + 2 = 92

b) 71 – 6 = 71 – 1 – 5 = 65

1 Add

a) 68 + 7 = ... b) 45 + 9 = ...

c) 77 + 8 = ... d) 96 + 5 = ...

e) 144 + 8 = ... f) 357 + 6 = ...

g) 506 + 6 = ... h) 994 + 7 = ...

2 Subtract

a) 75 – 9 = ... b) 83 – 6 = ...

c) 52 – 8 = ... d) 61 – 4 = ...

e) 196 – 7 = ... f) 243 – 5 = ...

g) 724 – 8 = ... h) 501 – 9 = ...

3 Now try these.

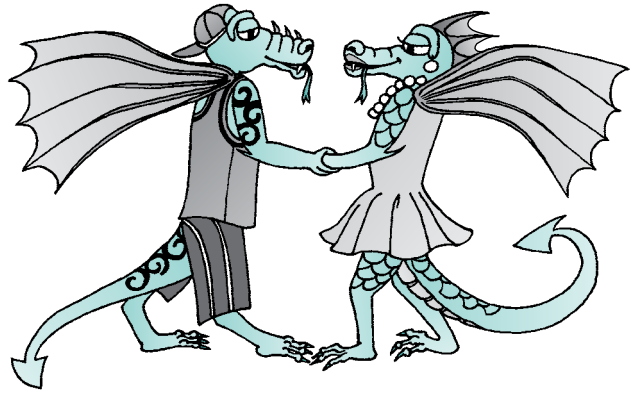
a) 84 + 29 = ***84 + 6 + 23 =*** .....

b) 145 + 36 = ...

c) 328 + 55 = ...

d) 360 + 170 = ...

e) 680 + 540 = ...



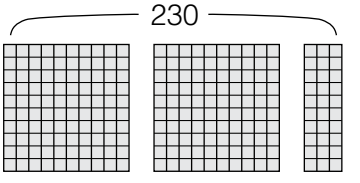
B Up or Down in Tens

1 A bank teller hands over $350 in notes of 10 dollars. How many notes should there be?

.....

2 The teacher asked the class to work out 230 + 80 and 230 – 80. Here's Tyler's strategy.

a) He cuts the number 230 into strips of 10. How many tens are there in 230?



.....

b) How many tens are there in 80? .....

c) Complete : 23 tens + 8 tens = ... tens

therefore 230 + 80 = ...

d) Complete : 23 tens – 8 tens = ... tens

therefore 230 – 80 = ...

Examples : Calculate

1a) 460 + 70 b) 510 – 80

2a) 243 + 80 b) 625 – 60

Working :

1a) 46 tens plus 7 tens is 53 tens Answer : 530

b) 51 tens minus 8 tens is 43 tens Answer : 430

2a) 24 tens (and 3) plus 8 tens is 32 tens (and 3) Answer : 323

b) 62 tens (and 5) minus 6 tens is 56 tens (and 5) Answer : 565

3a) 340 + 50 = ... b) 580 + 60 = ...

c) 680 + 50 = ... d) 440 + 90 = ...

e) 380 – 70 = ... f) 250 – 90 = ...

g) 720 – 40 = ... h) 960 – 80 = ...

4a) 335 + 60 = ... b) 483 + 70 = ...

c) 228 + 90 = ... d) 694 + 50 = ...

e) 297 – 50 = ... f) 315 – 30 = ...

g) 503 – 60 = ... h) 762 – 90 = ...

22 Tens, Hundred and Thousands

Multiplying and Dividing

A Lots of Zeros

1 Write as a number.

a) 6 tens = 60

b) 14 tens = ...

c) 25 hundreds = ...

d) 40 hundreds = ...

e) 16 thousands = ...

2 Calculate.

a) 45 x 10 = ...

b) 12 x 1000 = ...

c) 90 x 10 = ...

d) 600 x 100 = ...

e) 850 x 10 = ...

3a) What is less, 4 thousands or 42 hundreds?

.....

b) What is more, 180 tens or 2 thousands?

.....

4a) *Sixty tens is the same as six hundreds.*

Is this right? .....

b) Finish this sentence : *Six hundred tens is the same as* .....

c) Fifty hundreds is the same as .....

.....

d) Four hundred hundreds is the same as .....

.....

e) Three thousand thousands is the same as .....

.....

B How Many?

1a) How many tens make 200? 20

b) How many tens make 350? .....

c) How many tens make 700? .....

d) How many hundreds make 1800? .....

e) How many hundreds make 40 000? .....

f) How many thousands make 560 000? .....

2 Calculate.

a) 50 ÷ 10 = ...

b) 700 ÷ 100 = ...

c) 450 ÷ 10 = ...

d) 8000 ÷ 100 = ...

e) 96 000 ÷ 100 = ...

f) 730 000 ÷ 1000 = ...

3a) Donald says, *"Multiplying by 100 is the same as multiplying by 10, and again by 10."* Is this right?

.....

b) Finish this sentence : *Dividing by 100 is the same as* .....

.....

4a) How many thousands in one million? .....

b) How many thousands in half a million? .....

5 First prize in a lotto game is three and a half million dollars.

a) Write this amount in figures.

.....

b) How many bundles of $1000 in this prize?

.....

42 Fraction Problems

A Cutting up the Remainders

Example : Seven pies are shared equally between 5 friends.
How much pie does each get?

Working :

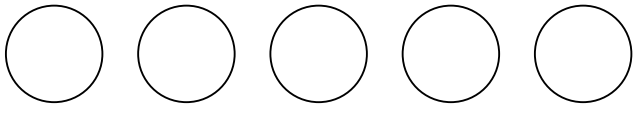
We can give each friend one whole pie then we cut the remaining two pies into five equal pieces.

Each friend gets 1 whole pie and $\frac{1}{5}$ and $\frac{1}{5}$, which is *one and two fifths.*

You can write a number sentence as follows

either $\frac{1}{5}$ of $7 = 1\frac{2}{5}$ or $7 \div 5 = 1\frac{2}{5}$

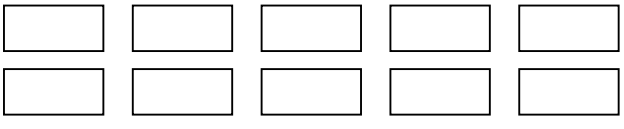
1 Five pies are shared equally between 4 friends.



a) Divide the pies. Colour one share red.

b) Complete : $\frac{1}{4}$ of 5 = ... ; 5 ÷ 4 = ...

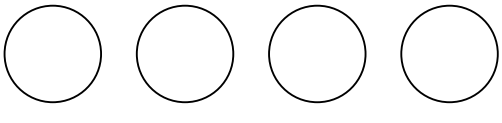
2 Ten chocolate bars are shared evenly between three sisters.



a) Divide the bars. Colour one share red.

b) Complete : $\frac{1}{3}$ of 10 = ... ; 10 ÷ 3 = ...

3 Use the 4 circles to work these out.
Use pencil!



a) $\frac{1}{3}$ of 4 = ... ; 4 ÷ 3 = ...

b) $\frac{1}{6}$ of 4 = ... ; 4 ÷ 6 = ...

c) $\frac{1}{5}$ of 4 = ... ; 4 ÷ 5 = ...

d) $\frac{1}{8}$ of 4 = ... ; 4 ÷ 8 = ...

B Siblings

1 Anna wants to share 6 mini pizzas between 5 people. Write instructions for Anna on how to do this.

.....

.....

.....

2a) Hemi's baby sister sleeps for $\frac{5}{8}$ of a full day.

What fraction of the day is the baby awake? .....

b) How many hours is the baby awake each day?

.....

3 Use a calculator to work these out.

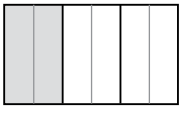
a) $\frac{2}{3}$ of $20.70 .....

b) $\frac{3}{8}$ of 1344 kilometres .....

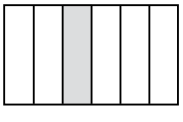
4 Jake has a bag with balloons. He gives $\frac{3}{4}$ of the balloons to his sister Ruby. If Ruby gets nine balloons, how many were there in the bag at the start? .....

.....

5 Dad bought a slab of chocolate which had six equal bars. He gave 2 bars to me, he gave 1 bar to my little brother and he ate the rest himself.



a) What fraction of the slab did I get? .....



b) What fraction of the slab did my brother get? .....

c) What fraction of the slab did dad get? .....

d) Complete : $1 - \frac{1}{3} - \frac{1}{6} =$ .....

Decimal Problems 1 57

A Estimating and Calculating

1 Mark went out to buy remote control Hot Wheels. The list shows what he bought.

item	price	estimate
Hot Wheels Car	$ 242.00	.....
Ramp	$ 9.75	.....
Batteries	$ 20.50	.....
Charger	$ 45.95	.....
Total	.....	.....

a) Jot down an estimated whole dollar price for each item.

b) Add all estimates in your head. Write this total on the table also.

c) Now work out the real total amount Mark has to pay.

d) Is your estimate close to the real total? Is it lower or is it higher? By how much?

.....

2 A clothing factory needs 1.95 metres of fabric for each school uniform skirt. They will be making 300 of these skirts.

a) Round 1.95 to the nearest whole number. .....

b) Estimate how many metres of fabric are needed for 300 skirts. .....

c) Use your calculator to calculate the precise amount of fabric needed. .....

3a) One action figure costs $26.35. Round $26.35 to the nearest dollar. .....

b) Estimate the cost of 4 action figures. .....

c) Use a calculator to find the exact cost of 4 action figures. .....

B Gardening

For each question estimate the answer first, then use a calculator for the exact answer.

1 Four litres of fence paint cost $58.40. How much is that per litre?

Estimation : ..... Calculation : .....

2 Plastic garden hose costs $1.85 per metre and a reel costs $24.95. How much does a reel with 10 metres of garden hose cost?

Estimation : .....

Calculation : .....

3 A fence has 5 sections which are 3.42 m long and 2 sections which are 2.95 m long. How long is it in total?

Estimation : .....

Calculation : .....

64 Follow Instructions

A Rules for Chains

1 Write down the first five numbers of the number chains with the following rules :

a) Each number is 7 more than the previous.
The first number is 4.

....., ..., ..., ..., ...

b) The first number is 5. Each following number is 3 less. You will need to use negative numbers.

....., ..., ..., ..., ...

c) Each number is half of the previous number.
The first number is 84.

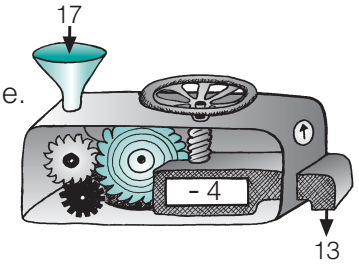
....., ..., ..., ..., ...

2 Adam starts his fitness training by running 750 m. Every week he increases the distance by 250 m.
What distances will Adam be running in each of the first four weeks of his training?

....., ..., ..., ...

B The Number Cruncher

A *Number Cruncher* changes numbers using a displayed rule. This one subtracts 4 from any number going in.



1 Write down the number that will come out if the machine is set to these rules :

a) 17 → | - 4 | → ...13...
20 → | | → .....
1 → | | → .....

b) 21 → | ÷ 3 | → .....
39 → | | → .....
81 → | | → .....

2 Calculate the outcomes using these double rules.

a) 7 → | first + 2 then x 5 | → ...45...
10 → | | → .....
18 → | | → .....

b) 30 → | first - 6 then ÷ 4 | → .....
54 → | | → .....
86 → | | → .....

C Real Rules

1 The amount of time a leg of mutton needs to be cooked in the oven is found with this rule :
25 minutes for every 0.5 kg of mutton. Write the cooking time under each weight in the table.

weight of mutton (kg)	0.5	1	1.5	2
cooking time (min)				

2 The cost of a few hours of horse-trekking is $55 per hour, plus $15 scrub-down fee per trek. Write in the table, the cost for treks of various times.

length of trek (hours)	1	2	3	4
cost ($)				

3 A motel charges $150 for a single person, $180 for a couple, then $25 for each additional person, up to a maximum of 4 people. Complete the table.

number of people	1	2	3	4
cost ($)				

4 A shop has a special deal for T-shirts, maximum 4 per customer.
The first T-shirt has the normal price of $24.
A second T-shirt is half the normal price;
a third T-shirt is $\frac{1}{3}$ of the normal price;
a fourth T-shirt is $\frac{1}{4}$ the normal price.
Fill in the table showing the total cost of a purchase.

number bought	1	2	3	4
total cost ($)				

74 Task 1

A The Walkathon

Sunridge School is organising a walkathon : this will be a sponsored walk around a sports track, where pupils raise money by getting donations for every circuit they walk. You are asked to estimate how much money the school can expect to raise, using the information below.

The circuit is 250 metres long and every pupil aged 9 or older is expected to walk on average 8 kilometres; the younger ones should walk on average 3 kilometres.

The school has about 200 pupils aged 9 or older and about 300 pupils under 9. For various reasons about 10% of each age group will be unable to participate.

The principal is hoping that each participant will get sponsored for about $1.20 per circuit.

1 Show how you estimate the expected amount of money raised.

working space

78 Units of Measurement

When you measure something you write down a number and a **unit**.
Kilometres, **metres**, **centimetres** and **millimetres** (km, m, cm, mm) are units for measuring **lengths**.
Kilograms and **grams** (kg, g) are units for measuring **weights**.
Litres and **millilitres** (L, mL) are units for measuring **volumes** of water or other liquids.
Degrees Celsius (˚C) is a unit for measuring **temperatures**.

1 km = 1000 m
1 m = 100 cm
1 cm = 10 mm
1 kg = 1000 g
1 L = 1000 mL

A Choosing Units

1 Choose a unit from the box to fill the gaps.

kg	g	L	mL	
km	m	cm	mm	˚C

a) The length of Amy's pencil case is 22 ……

b) Mum bought 2.5 …… of potatoes at the farmers' market.

c) Dad added 20 …… of cream to the tomato soup.

d) The temperature dropped by 2 …… in one hour.

e) This Dragon Maths book is 9 …… thick.

f) A banana weighs about 150 ……

g) The baby bath contained 10 …… of water.

h) The dairy is just 300 …… down the road.

B Changing Units

1 Fill in the number.

a) 7 km = …… m b) $\frac{1}{2}$ km = …… m

c) 4 m = …… cm d) $\frac{1}{4}$ m = …… cm

e) $3\frac{1}{2}$ m = …… cm f) 600 cm = …… m

g) $\frac{1}{2}$ cm = …… mm h) 12 cm = …… mm

i) 50 mm= …… cm

2a) 3 L = …… mL b) 8000 mL = …… L

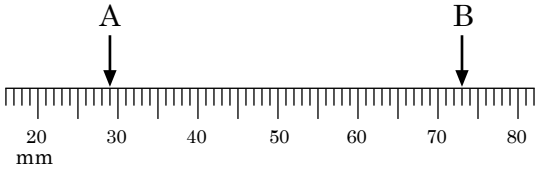
c) $\frac{1}{4}$ L = …… mL d) 4500 mL = …… L

3a) 2000 g = …… kg b) $\frac{3}{4}$ kg = …… g

c) $1\frac{1}{4}$ kg = …… g d) 3500 g = …… kg

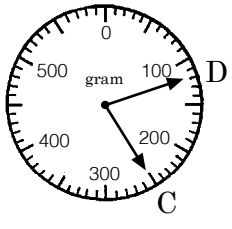
C Reading Scales

1 Read off the number at each of these pointers.



A = …… mm

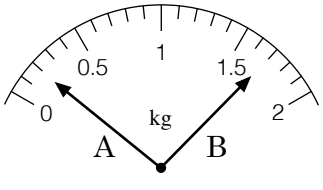
B = …… mm



C = …… g

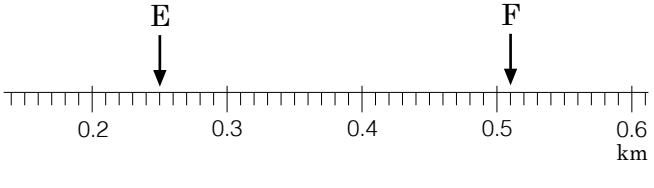
D = …… g

2 Read off the decimal numbers at each of these pointers.



A = …… kg

B = …… kg

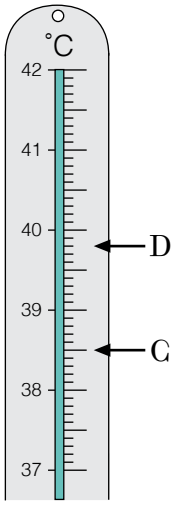


E = …… km

F = …… km

C = …… ˚C

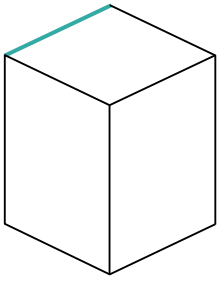
D = …… ˚C



Flat Faced Solids 99

A Drawing Cuboids

1 This diagram of a cuboid has one green edge.

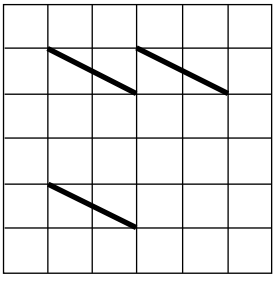


a) Colour green two edges which are parallel to that edge.

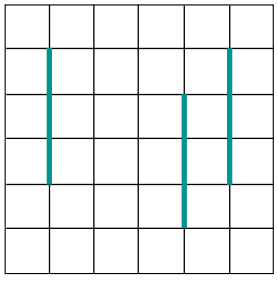
b) Colour red 3 other edges which are all parallel.

2 When Olivia draws a cuboid she always starts with 3 parallel lines of equal length.
Finish Olivia's drawings of the cuboids.

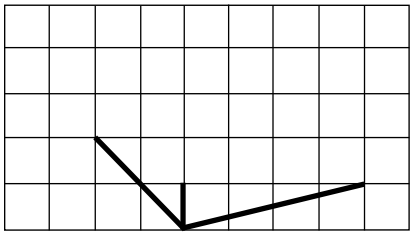
a)



b)

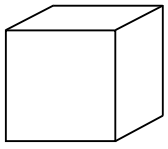


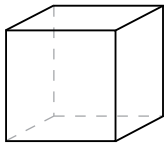
3 Finish this picture of a pizza box.



B See-through Solids

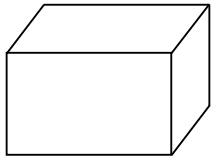
1



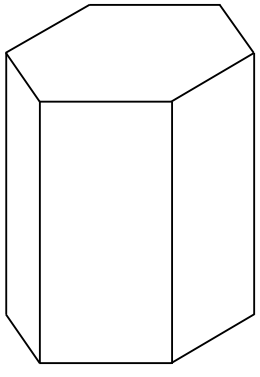


We can make a cube see-through by drawing the invisible edges with dotted lines.
Draw with dotted lines the invisible edges in these solids.

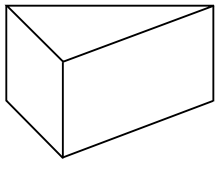
a) cuboid



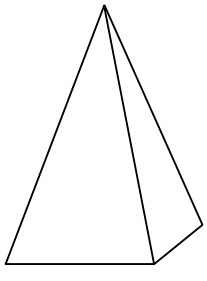
b) hexagonal prism



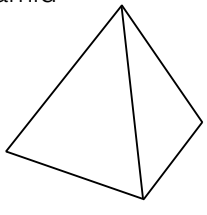
c) triangular prism



d) square based pyramid



e) triangle based pyramid



C Features in Solids

1 Here is a list with five features. Check with the solids drawn in B to see whether they have these features. Write *yes* or *no*.

	feature ↓ shape →	cuboid	hexagonal prism	triangular prism	square based pyramid	triangle based pyramid
a)	It has some rectangular or square faces	***yes***				
b)	It has some triangular faces		***no***			
c)	It has an even number of faces					
d)	It has an even number of edges					
e)	It has an even number of vertices					

A Comparing Prices

1 Alice went to the supermarket to buy flour. She is looking at the 'house brand' flour and has the choice between a 1.5 kg bag for $2.09 or a 2.5 kg bag for $2.99.

a) Using estimation Alice worked out that the flour in the 1.5 kg bag costs about 70 cents per 500g. How did she do that?

.....

.....

b) Estimate the cost of 500g of flour in the 2.5kg bag.

.....

c) Which size bag is better value for money? .....

d) Can you think of a reason why Alice may still decide to buy the other bag?

.....

2 Alice collected prices of house brand bottled water. There are many different sizes of bottles and containers. (Not including sipper tops). Compare prices and write a comment.

Housebrand Still Spring Water		
1.5 L,	$0.89 ea	
4 L,	$3.00 ea	
6 L,	$4.99 ea	
350 mL,	12 pack	$5.79
600 mL,	24 pack	$9.99

Working Space

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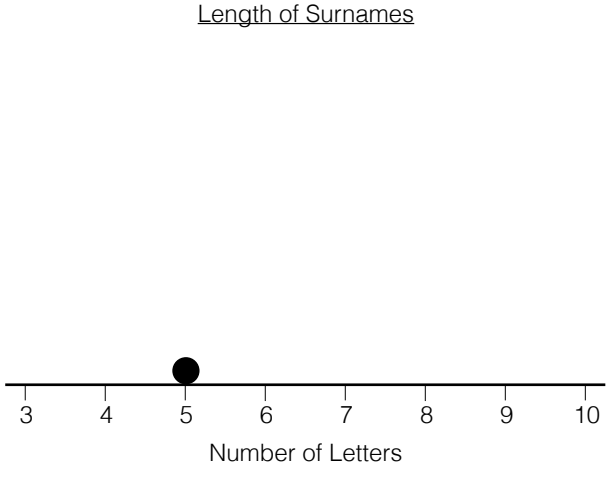
116 Class Surveys 2

A Surnames

Chloe wants to investigate the number of letters in surnames. Here is a list of the surnames of all the pupils in Chloe's class.

Black	Gordon	Nieuwehuys
Boyes	Halt	Parker
Cheong	Hooper	Patel
Cox	Isaac	Roderick
Craven	Jarvis	Saunders
Donoghue	Keepa	Singh
Duggan	Kerr	Te Kaha
Dunn	Knowles	Tompson
Evans	Lake	Ward
Fitzgerald	McNally	Whaitiri

1 Count the number of letters in each surname and record the result in the dot plot.
e.g. *Black* has 5 letters.



2 Write the correct *numbers* in these comments.

a) The shortest surname has …… letters, the longest has …… letters.

b) The most common surname length is …… letters.

c) Nobody in Chloe's class has a surname with …… letters.

d) …… surnames have less than 6 letters.

B Trains, Boats and Planes

Room 10 is doing a survey on travel. Pupils raise their hand if they have gone on a tour bus, a train, a plane, a ferry or a helicopter.

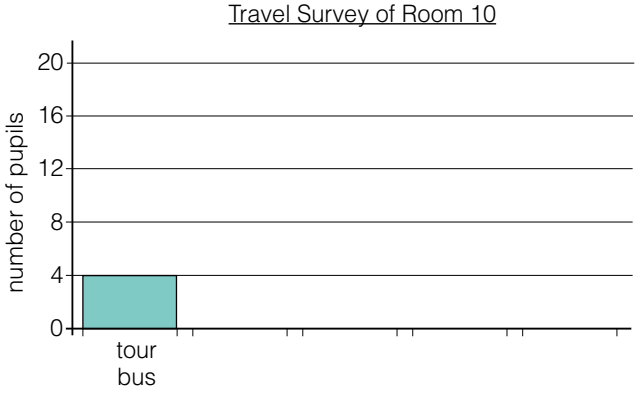
1 How should the questions be worded? Choose A or B.

(A) Have you ever *been* on a . . . ?

(B) Have you ever *travelled* on a . . .?

2 This tally chart shows the result of their survey. Complete a bar chart for this data.

transport	tally
tour bus	𝍸 |
train	𝍸 𝍸 𝍸 ||
plane	𝍸 ||
inter-island ferry	𝍸 𝍸 |||
helicopter	||



3 Where do you think Room 10 is more likely to be?
(A) in Wellington or (B) in Queenstown.

Reason : ……..

……

4 Do we know from the results how many pupils are in Room 10? Explain ……...

……

……

……

Answer Section A1

Pages 4 - 16
Adding and Subtracting

Page 4 - Mental + and –

A1 a) 75 b) 54 c) 85 d) 101
e) 152 f) 363 g) 512 h) 1001
A2 a) 66 b) 77 c) 44 d) 57
e) 189 f) 238 g) 716 h) 492
A3 a) 84 + 6 + 23 = 113 b) 145 + 5 + 31 = 181
c) 328 + 2 + 53 = 383 d) 360 + 40 + 130 = 530
e) 680 + 20 + 520 = 1220

B1 35 notes
B2 a) 23 b) 8 c) 31 tens, 310
d) 15 tens, 150
B3 a) 390 b) 640 c) 730 d) 530
e) 310 f) 160 g) 680 h) 880
B4 a) 395 b) 553 c) 318 d) 744
e) 247 f) 285 g) 443 h) 672

Page 5 - Making Adjustments

A1 a) 21 b) 65 c) 31 d) 28
e) 47 f) 18 g) 41 h) 27
A2 $24
A3 a) 42 b) 15 c) 39 d) 71
e) 58 f) 122 g) 105 h) 334

B1 a) 28, 28 b) 16, 16 c) 57, 57 d) 83, 83
B2 a) 19, 19 b) 81 c) 16 d) 29
e) 58 f) 106

Page 6 - Adding or Subtracting Too Much

A1 a) 34 + 50 – 1 = 83 b) 43 + 30 – 2 = 71
c) 56 + 40 – 3 = 93 d) 122 + 50 – 2 = 170
e) 575 + 20 – 1 = 594 f) 374
g) 491 h) 680
A2 a) 73 – 60 + 1 = 14 b) 91 – 40 + 2 = 53
c) 680 – 70 + 3 = 613 d) 752 – 50 + 4 = 706
e) 300 – 50 + 2 = 252 f) 817
g) 628 h) 229

B1 a) 87 + 100 – 1 = 186 b) 400 + 65 – 2 = 463
c) 103 + 200 – 3 = 300 d) 300 + 349 – 5 = 644
e) 818 + 700 – 2 = 1516
B2 a) 123 – 100 + 1 = 24 b) 605 – 200 + 2 = 407
c) 834 – 100 + 3 = 737 d) 1000 – 800 + 4 = 204
e) 2463 –1000 + 2 = 1465
B3 450 – 200 + 2 = $252

Page 7 - Doubles and Triples

A1 a) 140 + 140 – 2 + 1 = 280 – 1 = 279
b) 320 + 320 + 3 – 1 = 640 + 2 = 642
c) 100 + 100 – 3 – 2 = 200 – 5 = 195
d) 250 + 250 – 3 + 4 = 500 + 1 = 501
e) 30 + 30 + 30 + 2 – 1 + 3 = 90 + 4 = 94
f) 50 + 50 + 50 + 4 – 2 + 1 = 150 + 3 = 153

B1 a) 200 + 419 = 619 b) 687 + 400 = 1087
c) 400 + 457 = 857 d) 422 + 10 = 432
e) 700 – 69 = 631 f) 500 + 236 = 736
C1 60 + 60 + 60 + 2 – 1 – 3 = 178
C2 He pays 995 + 70 + 5 = 1070
1280 – 1070 = 210, $210

Page 8 - More Strategies

A1 a) 16 b) 32 c) 25 d) 81
e) 62 f) 28
A2 a) 715 + 195 = 910 b) 353 + 267 = 620
c) 241 + 589 = 830
A3 a) 182 b) 357 c) 936 d) 749
e) 815 f) 573

B1 a) 79 + 200 = 279 b) 7 + 100 = 107
c) 36 + 100 = 136 d) 1 + 500 = 501
e) 69 + 200 = 269 f) 77 + 500 = 577
B2 a) 2 + 400 + 20 = 422 b) 15 + 300 + 50 = 365
c) 74 + 200 + 10 = 284 d) 37 + 400 + 30 = 467
B3 Top level : 34 Second layer : 168, 202
Third layer : 484, 316, 114

Page 9 - Read and Solve

A1 42 A2 $330
A3 $29 A4 $15
A5 675 A6 862
A7 428 A8 152
A9 284 A10 $155

B1 82 years old or 26 years old B2 $428
B3 Numbers top left - clockwise
157, 400, 243, 282, 39, 537, 498, 655
C1 320 + 320 - 3 + 4 = 641 km
C2 36 + 200 + 20 = 256 km
C3 Jodi - 110 km, Ravi - 90 km

Page 10 - Counting

A1 a) 3761 b) 5301 c) 3759 d) 5299
A2 a) 460 b) 9810 c) 440 d) 9790
A3 a) 1700 b) 7100 c) 1500 d) 6900
A4 a) ninety-nine thousand b) one hundred thousand
A5 a) 7995 b) 8085 c) 8985 d) 17 985
A6 a) 8413, 8174, 1024, 975, 579
b) 3960, 3906, 3609, 3096, 3069

B1 a) 139 b) 13 B2 a) 50 b) 500
B3 a) 2 b) 0 c) 1 d) 7
B4 a) 25 b) 6 c) 10 d) 78
B5 a) 250 b) 64 c) 104 d) 789

Page 11 - Place Values 1

A1 a) ninety thousand, two hundred and sixty.
b) three hundred and twenty-one thousand and six.
A2 a) eight hundred b) eight hundred thousand
c) eight thousand
A3 a) 2084 b) 54 360 c) 295 000
A4 one million (1 000 000)

B1 a) < b) > c) < d) <
e) > f) >
B2 a) Stewart Island b) Chatham Island
c) twenty eight thousand and five hundred
B3 The Northland region has 91 000 more people.

Page 12 - Place Values 2

A1 a) 100 b) 452
A2 a) 100 b) 1000 c) 3400
A3 a) 708 b) 70

B1 a) 26 643 b) 71 602 c) 37 744 d) 925
e) 10 000 f) 10 g) 800 051 h) 809 051
i) 889 808 j) 989 798 k) 1 l) 100

Page 13 - Rounding

A1 a) any number between 136 - 139
b) 601 - 649 c) 5281 - 5284
d) 17501 - 17 999
A2 a) 350 b) 900 c) 1870 d) 1000
e) 32 000
A3 a) 950 and 960; closer to 950
b) 900 and 1000; closer to 1000
c) 2470 and 2480; closer to 2480
d) 2400 and 2500; closer to 2500
e) 2000 and 3000; closer to 2000
f) 48000 and 49000; closer to 49000

B1 a) 80 b) 140 c) 250 d) 740
e) 1290 f) 4270
B2 a) 300 b) 800 c) 1300 d) 4300
e) 7700 f) 24 500
B3 a) 1000 b) 4000 c) 8000 d) 24 000
e) 64 000 f) 146 000
B4 a) 5400 km b) 12 000 km

Page 14 - Large Numbers + and –

A1 a) 7350 b) 4750 c) 4390 d) 7870
e) 6470 f) 5890 g) 13 480 h) 9980
i) 9510 j) 8349 k) 4049 l) 3429
A2 a) 2720 b) 6120 c) 6700 d) 1740
e) 7540 f) 7690 g) 330 h) 1930
i) 2240 j) 8009 k) 8209 l) 8969

B1 Across : 1 - 1644, 6 - 2075, 8 - 3918, 10 - 39
12 - 516, 13 - 740, 14 - 85, 15 - 6050, 16 - 7840
18 - 2163.
Down : 2 - 6216, 3 - 408, 4 - 47, 5 - 4358, 7 - 5345
9 - 9157, 11 - 9000, 13 - 7006, 15 - 641, 17 - 82

Page 15 - Pen and Paper Adding

A1 a) 625 600 + 20 + 5
348 300 + 40 + 8
973 900 + 60 + 13
b) 781 700 + 80 + 1
293 200 + 90 + 3
1074 900 + 170 + 4
c) 574 500 + 70 + 4
883 800 + 80 + 3
1457 1300 + 150 + 7
d) 4217 4000 + 200 + 10 + 7
2643 2000 + 600 + 40 + 3
6860 6000 + 800 + 50 + 10
e) 3065 3000 + 60 + 5
2864 2000 + 800 + 60 + 4
5929 5000 + 800 + 120 + 9
f) 6918 6000 + 900 + 10 + 8
1494 1000 + 400 + 90 + 4
8412 7000 + 1300 + 100 + 12

B1 a) 694 b) 791 c) 658 d) 928
e) 641 f) 1484
B2 a) 7865 b) 9095 c) 9415 d) 11 950
e) 14 344 f) 4650
B3 a) 1220 b) 10 386

Page 16 - Pen and Paper Subtracting

A1 a) 91 b) 16 c) 28
500 600 900
1000 3000 5000
1591 3616 5928

A2 a) 72 b) 30 c) 51
1000 600 500
850 3000 2000
1922 508 231
4138 2782

B1 a) 792 700 + ~~90~~ (80) + ~~2~~ (12)
- 467 400 + 60 + 7
325 300 + 20 + 5

b) 628 ~~600~~ (500) + ~~20~~ (120) + 8
- 251 200 + 50 + 1
377 300 + 70 + 7

c) 744 ~~700~~ (600) + ~~40~~ (130) + ~~4~~ (14)
- 186 100 + 80 + 6
558 500 + 50 + 8

d) 407 ~~400~~ (300) + ~~0~~ (100) + 7
- 235 200 + 30 + 5
172 100 + 70 + 2

e) 3528 ~~3000~~ (2000) + ~~500~~ (1500) + ~~20~~ (10) + ~~8~~ (18)
- 1709 1000 + 700 + + 9
1819 1000 + 800 + 10 + 9