





Level 1 Mathematics, 2006

90151 Solve straightforward number problems in context

Credits: Three 9.30 am Friday 24 November 2006

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should answer ALL the questions in this booklet.

You should show ALL working.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2-6 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Achievement	Achievement with Merit	Achievement with Excellence
ite straightfonvard number	Solva rumber problems in the context involving manipulation that involving manipulation that is a second of reversing a second of re	Devise a strategy of disciple is a linguistic of the problem.

You are advised to spend 25 minutes answering the questions in this booklet.

Assessor's use only

MONEY, MONEY, MONEY

You should show ALL working.

QUESTION ONE

A skateboard has a marked price of \$130. There is a "60% off" sale.

What is the sale price of the skateboard?

130×0.60 = 78 130-78=52

SALE!

This approach is fine.

Sale price \$ 52.

QUESTION TWO

Yesterday petrol cost \$1.75 per litre.

Today the cost of petrol has gone up by 6 cents per litre.

What percentage increase is this?

able to use be as 0.06

1.15+0.405 apercentage

Increase 5.4 %



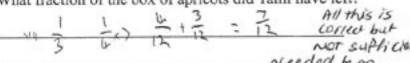
QUESTION THREE

Tami bought a box of apricots.

Tami threw away $\frac{1}{3}$ of the box of apricots because they were rotten.

She gave away $\frac{1}{4}$ of the box of apricots.

What fraction of the box of apricots did Tami have left?



1-7 = 5

Fraction left



Mathematics 90151, 2006

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QUESTION FOUR	Spaghetti Bolognese
Jack is having a party for 40 people.	(serves six people)
He is going to make Spaghetti Bolognese.	0.75 kg minced beef
How much minced beef will he need to use?	100 g tomato paste
6x7:42/ studen has no idea how to use proport	cup water
Me amount, it will i	2 tsp mixed herbs
42 peopel.	2 tsp crushed garlic
Minced beefk	300 g uncooked spaghetti
QUESTION FIVE	
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Jill is buying a car that costs \$2430 including GST. Her father says he will pay the GST. (GST is 12.5%) How much will Jill have to pay? 2430 NO.125-30375 At Mer & level reverse GST call are required.	inis
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Last year's price \$ _

QUESTION SEVEN

Last year, Mr Bigg's company had an annual turnover of \$9.56 × 108.

This year, the annual turnover is \$1.0449 \times 109.

What percentage increase is this for Mr Bigg's company?

OWA 0000 C

1044900600

=0.109

56000 000

Increase

And Considered 2 mistakes 1 A had 109.299 8 we would have sould inistake in colculation and give

Jemima has \$5000 to invest for two and a half years. in wrong place too. See connects exensias Her bank offers two different investment schemes:

Scheme 1

The client invests the money in an account that pays 3.25% interest only at the end of each year.

Scheme 2

The client invests the money in an account that pays 1.3% interest at the end of each six months.

Investigate each scheme and recommend to Jemima, with reasons, what she should do.

: 162.5 MODES

5162.5 x 0.0325= 107.78125

5162.5+167.78125= 5330.28

5330.28 -

Scheme ?

used when 3 its required for sufficiency

5000 x 0.013 = 65

5065 x 0.013 = 65.845 5065 - 1st 6 mods

4065 +65.345 = 5130

5130.845 - 1st year 5130.845 t 5130 845x0.013 = 60.70095

197545985 - 1 year 6 months

5197.545985x0.013 = 67.568 5197.54585 + 67.568 : 5265.114

5265, 114 - 2nd year 5333.56 - 2nd year, 6 months

5265.114 20.013 = 68.446 5265.114 + 68.446 = 5333.56

Final sum

So Scheme Mathematics 90151, 2006

use only

studen

skill

ejeated

NOT LIOUTH