

Nelson Maths 9 for the CSF II

Homework and Assessment Sheets

Financial arithmetic

NU 9-5

Name: _____ Class: _____

Due date: _____ Parent's signature: _____

Level 5					/10	Level 6										/20					

Part A: Level 5

- Sam reduced her \$100 by 50%, leaving her with \$_____.
- She then increased the result by 50%, so that in the end she has \$_____.
- James increased his \$100 by 50%, leaving him with \$_____.
- He then reduced the result by 50% so that in the end he has \$_____.

These following CDs are discounted by various amounts. Enter the discount prices in the table.

	CD price	% discount	Discount price
5	\$59.95	30	
6	\$39.95	25	
7	\$29.95	12.5	
8	\$19.95	10	

Explain in words what these calculator instructions mean.

9 (8) (0) (-) (2) (5) (%) (=) _____

10 (3) (0) (+) (3) (0) (0) (%) (=) _____

Part B: Level 6

Fill in the blank spaces.

- A 50% price reduction = _____% of the original price.
- A 20% price reduction = _____% of the original price.
- A 50% price increase = _____% of the original price.
- A 100% price increase = _____% of the original price.

Money can be invested with financial institutions at various interest rates. Calculate how much you would have after 1 year and after 2 years, reinvesting the interest.

	Initial \$ invested	Interest rate (% per annum)	Account balance after 1 year	Account balance after 2 years
5	\$100	2%		
6	\$100	5%		
7	\$100	7%		

The calculator steps to complete question 7 above are:

Balance after 1 year: (1) (0) (0) (+) (7) (%) (=)

Balance after 2 years: (+) (7) (%) (=)

8 What is the balance after 10 years at 7% interest? _____

9 How many years would it take to double \$100 at 7% interest? _____

The following people wish to keep their money and interest in the bank until they have a total of \$1000.

	Person	Initial investment	Interest rate (% per annum)	Years to reach \$1000
10	A	\$500	10%	
11	B	\$800	5%	
12	C	\$600	7%	
13	D	\$400	15%	

Complete the table.

	Item	Cost in 1998	Cost in 1999	% increase (to whole number)
14	Calendar	\$4.95	\$5.25	
15	Novel	\$19.99	\$24.99	
16	Atlas	\$145.00	\$149.95	

A 1 L container of 'Brand A' dishwashing liquid costs \$4.75, while 2 L of 'No-name' brand costs \$6.50.

17 What are their prices per litre? Brand A: _____ No-name: _____

18 Express the No-name cost/L as a % of the Brand A cost/L. _____

Jackie and Jack deliver papers. Jackie works 14 hours/week and earns \$70. Jack works 18 hours/week and earns \$81.

19 Who has the highest rate of pay? _____

20 Express Jack's pay rate as a % of Jackie's. _____

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What is the largest value postage which cannot be made up of 3-cent and 5-cent stamps?

Vocabulary

Write the mathematical meanings of:

Discount _____

Discounted price _____

Percentage discount _____

Investment _____

Interest rate _____

Account balance _____