





Consumer arithmetic Student Book - Series J

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Topic 1: Salaries

QUESTIC	Tom's annual salary is \$69 550. How much is he paid each week?
QUESTIC	ON 2 Geoff receives a salary of \$122 856.50 p.a. What is his gross fortnightly pay?
QUESTIC	ON 3 Claudette earns \$948 per week. What is her annual salary?
	ON 4 Monique receives \$4230 per month. Find her unual salary
b we	eekly pay
	5 Jim was earning \$72 850, after being granted a 7.5% pay rise. What was his pay (to the t dollar) before this rise?
QUESTIC	ON 6 Leslie was earning \$85 630 p.a. and received a 6% pay rise. What is her new salary?
	The Simone is a high school teacher and her pay increased from \$56,820 p.a. to \$65,380 p.a. at the her percentage pay rise.

Topic 2: Wages

QUESTION 1 Geoff works 38 hours per week and his weekly wage is \$1962. Find his hourly rate of pay.
QUESTION 2 Jill works a basic week of 40 hours and her hourly rate of pay is \$32.50. Calculate her weekly wage.
QUESTION 3 Maddie works in a shop and is paid \$21.40 per hour. Calculate Maddie's wage in a week when she works 40 hours.
QUESTION 4 Angus works 8 hours a day and a nine-day fortnight. if his pay rate is \$18.90 per hour, what is his fortnightly pay?
QUESTION 5 Nick works a 38-hour week for an hourly rate of \$28.95. Find his total weekly wage.
QUESTION 6 Kim is paid \$2643.80 per fortnight. If she works 35 hours per week, what is her hourly rate of pay?
QUESTION 7 William is paid \$210.60 for working $8\frac{1}{2}$ hours. What will he be paid for working 5 hours at the same rate of pay?
QUESTION 8 Anna works 5 hours on Monday, 6 hours on Tuesday, 7 hours on Wednesday, 8 hours on Thursday and 9 hours on Friday. If she is paid \$23.80 per hour, what is her weekly wage?
QUESTION 9 Emily earns \$1560 a fortnight, working 30 hours a week. Find her hourly rate of pay.

Topic 3: Overtime

	en this is paid at time-and-a-half	b	double time	
		_		
	ESTION 2 Susan's normal pay rate is \$21 7 hours at time-and-a-half?	-	_	
a	- mours at time-and-a-nan?	b - -	6 hours at double time?	
Qui	estion 3			
a	Peta receives a gross pay of \$1250 fo	r a 40 hour	week. Calculate Peta's hourly rate of pay.	
b	In one busy week, Peta works overting that week.	_	ours at time-and-a-half. Find her gross pay for	
18		at time-and	of for a 40-hour week. In one week he works l-a-half and 6 hours at double time. What are his	
	ESTION 5 Samantha worked for an hour	at time-and	l-a-half and was paid \$36.90.	
			l-a-half and was paid \$36.90.	

Topic 4: Commission

eek in which her sales total \$18 000? _		sales. How much commission will she receive in
mmission of 4% on sales made. Find hi	-	paid a retainer (basic wage) of \$400 per week and income in a week in which he sells a car to the \$110 000
•	s \$320 a · b	week plus 4·5% commission on sales. Her her total earnings for the week
\$100 000, 1.25% on the next \$100 000	and 1%	
,		
How much would she need to sell (to t	he neares	t dollar) to have an income of \$750?
	STION 2 Chris is a car sales representative departments on the sales of \$68 000 STION 3 Paige is a sales person and earny kly sales total is \$80 000. Find their commission STION 4 Ty is a real estate agent and recent \$100 000, 1.25% on the next \$100 000 and a property worth \$825 000. STION 5 Jenny sells cosmetics and is pain what is her income if she sells \$2560 and the sales \$256	STION 2 Chris is a car sales representative and is permission of 4% on sales made. Find his weekly see of \$68 000 b STION 3 Paige is a sales person and earns \$320 a skly sales total is \$80 000. Find her commission b

Topic 5: Piecework and casual work

QUESTION 1 John works on a casual basis, earning \$18.60 an hour on week days and \$25.80 an hour on weekends. How much does he earn in a week where he works 35 hours during the week and 8 hours on a weekend?
QUESTION 2 Joanne is paid a piecework rate for sewing buttons onto shirts. The rate is \$1.85 for each shirt. How much does she earn for buttoning 300 shirts in a day?
QUESTION 3 Dominic is a fruit-picker and is paid \$2.30 for every full bag of fruit he picks. How much will he earn in a day when he picks 83 bags of fruit?
QUESTION 4 Sebastian works as a packer on a fruit plantation and is paid \$2.00 per box with a bonus of 90 cents for each box packed in excess of 100 boxes per day. Find his income per day in which he packs 135 boxes.
QUESTION 5 Damien works in a factory on a basic wage of \$250 a week. In addition to this, he is paid a bonus of 50 cents per article for every article in excess of the weekly quota of 2000. How much wishe earn in a week in which 4300 articles are made?
QUESTION 6 James makes leather belts and is paid \$2.55 per belt. How much does he earn for making 230 belts?

Topic 6: Allowances and holiday loading

	QUESTION 1 Anita earns \$72,560 per annum. Her pension fund contributions amount to 9% of her annual salary. How much are the pension fund payments per annum?				
	ESTION 2 Calculate Mary's holiday loans \$1890.95 per fortnight.		that she is paid $17\frac{1}{2}\%$ on 4 weeks pay and she		
	ESTION 3 May received a 17½% holidates?		\$852.80 on 4 weeks' wages. What is her weekly		
		=	580 from the Department of Education. He liday pay period. Calculate the following. his holiday loading		
c	his holiday pay for 4 weeks		If he saves 35% of his total holiday pay for 4 weeks, how much are his savings?		

Topic 7: Deductions

inc	QUESTION 1 John works as a teacher and his yearly salary is \$66 900. His fortnightly deductions include income tax \$870, medicare levy \$52 and his union fees \$8.90. Calculate his fortnightly take-home pay (net pay).				
we	ESTION 2 Angela received a gross wage of \$1230.60 per week. The payments deducted from her ekly wage are tax, 33% of gross weekly wage; health insurance, \$35.40 per week; superannuation units at \$2.75 per unit. Calculate her net pay for the week.				
for	ESTION 3 Melissa earns \$2090.40 gross per fortnight. Her pay deductions are \$435.20 for tax, \$175 superannuation, \$7.20 for union fees and \$40.10 for health insurance. Find Melissa's net pay for fortnight.				
— Q∪ a	ESTION 4 Marcus' gross annual salary is \$63 870. (use 1 year = 52 weeks) What is his fortnightly income?				
b	If his deductions are \$720.35 in income tax, \$20.45 in union fees and \$148.30 in superannuation contributions, find his net pay per fortnight.				
c	What percentage of Marcus' gross pay is deducted?				
	ESTION 5 Nancy's gross annual income is \$53 430. She paid a total of \$8365 in deductions, luding income tax. Calculate her net weekly pay. (use 1 year = 52 weeks)				

Topic 8: Income tax

QUESTION 1

Tax rates for 2004–2005 financial year				
Taxable income	Tax on this income			
\$0-6000	Nil			
\$6001–\$21 600	17c for each \$1 over \$6000			
\$21 601–\$58 000	\$2652 plus 30c for each \$1 over \$21 600			
\$58 001–\$70 000	\$13 572 plus 42c for each \$1 over \$58 000			
\$70 001 and over	\$18 612 plus 47c for each \$1 over \$70 000			

John's gross income is \$78 670. His total deductions are \$4630. Find his taxable income. Calculate the amount of tax due. If he pays \$485 per week in tax, how much refund should he receive for the year? c QUESTION **2** Use the table given above to work out the following. Jo's taxable income was \$48 000. What tax was payable on her income of \$48 000? ii What percentage of taxable income was paid in tax? Answer correct to 2 decimal places. iii How much did Jo take home each week after tax had been deducted? (1 year = 52 weeks) Georgie has a taxable income of \$31 650. b Find the tax payable. _____ Isabel's taxable income is \$4782 more than that of Georgie. Find how much more tax Isabel pays than Georgie.

Topic 9: Budgeting

QUESTION **1** Steve works with the department of Education and his take-home pay is \$1865.60 per fortnight. His expenses are shown in the table.

Wha	is Steve's	s annual	take-h	ome pa	y?
Wha	are his sa	vings p	er fortn	ight?	
		0 1			
How	much can	he save	e towar	ds his h	olid

Item	Fortnightly amount
Rent	\$300
Food	\$160
Telephone	\$30
Clothing	\$120
Car	\$110
Entertainment	\$90
Other Expenses	\$140
Savings	\$
Total	\$1865.60

QUESTION **2** Theo earns \$600 per month from a part-time job, receives \$120 for helping his parents, and \$150 for helping an organisation. Every month his expenses are \$100 for food, \$40 for repayments on a loan, and \$80 on school needs. He wants to save \$200 per month. Whatever is left he divides equally between clothes, entertainment and car expenses.

a Make up a monthly budget for Theo.

b

What percentage of his total income does he save? _____

Income (\$)	Fixed expenses (\$)	Variable expenses (\$)

Topic 10: Profit and loss

Q∪ a	his profit on the sale							
b	his profit as a percentage of the cost price							
c	his profit as a percentage of the selling price							
	ESTION 2 Nancy bought a car for \$20 600 and sold it to David at a loss of 40% after it was involved an accident. David repaired it and then sold it, making a profit of 50% on his purchase price. How much did David pay for the car?							
b	For how much did David sell the car?							
Qu a	ESTION 3 A book is sold for \$56.80 including 10% GST. How much GST is charged?							
b	What is the selling price of the book without GST?							
Qu	ESTION 4 A bicycle is on sale for \$450. This is 75% of the regular price. What is the regular price?							

Topic Test PART A

Time allowed: 15 minutes Total marks = 15

	(A)	in a week in which \$1500	he se	\$1800 worth of \$1800	good	\$1200	①	\$545	1
15	Mark receives a retainer of \$300 per week and 15% commission on all sales. How much does he earn in a week in which he sells \$10 000 worth of goods?							w much does he	
14	A shi	rt with a mark-up o \$24	of 259	% is sold for \$120. H \$29	ow n	nuch profit is made, t \$31	o the	nearest dollar?	1
13	Davie (A)	d paid \$180 for a ju \$72	mpei	after a discount of 4 \$108	0%.	How much did he sa \$252	ve?	\$120	1
12	The t	ax on a salary of \$5 \$2723.70	_	5, paid at \$11 772 plu \$14 495.70	_	cents for each \$1 ov \$24 563.70	er \$5	2 000 is: None of these	1
11	Mich	ael was paid \$561.6 \$29.20	60 for B	r 18 hours of work. V \$30.20	Vhat C	was his hourly rate o \$31.20	f pay	7? \$32.20	1
10	A sho		for S	\$1500 and sells it for 150%		33 $\frac{1}{3}$ %		age of the cost $66\frac{2}{3}\%$	1
9	A	\$1152	$^{\odot}$	of 12%. If the sales a \$8448	©	\$10 752	①	None of these	1
8	A \$13	850 mobile phone is \$277.50	s disc B	sounted by 15%. The \$2127.50	new C	price for the mobile \$1572.50	phon ①	ne is \$2446.63	1
7	A dea price		for \$2	250 and makes a prof	it of	\$50. His percentage 25%	profi D	t on the cost 30%	
6	If 9% (A)	of an amount is \$1 \$200	1800, B)	then the amount is \$2000	©	\$20 000	①	\$200 000	1
5		is paid \$25.20 per l ding a 17½% holida \$3830.40		and works 38 hours pading? \$4500.72	er w	eek. Find his holiday \$670.32	pay (D)	for 4 weeks None of these	1
4		How much is she p		s \$15.20 for the first for 45 hours? \$752.40	36 h	ours and time-and-a-l \$820.80	half f	for every extra \$1026	1
3	Mitcl (A)	nel receives \$756 for \$28.35	r a 40 B)	0-hour week. What is \$23.63	he pa	sid for each hour work \$37.80	ked?	\$18.90	1
2	Rhon	da has a salary of \$ \$1386.94	_	73 p.a. Her fortnightly \$1280.25	y pay	is \$2560.50	①	\$1276.74	1
1		receives a commis in which her sales \$423.53	total	of 8.5% on all her sa \$3600? \$306	les. F	How much commission \$3294	on do	\$3006	1
_				C O F O C 11.1	1 T	т 1	1	1 .	Marks

Topic Test PART B

Tim	ne al	llowed: 15 minutes	Total marks = 15	
Qı	ıest	ion 1		Marks
a	Fin	ad David's weekly wage if he works for 40 hours at the e of \$25.60 per hour.		. 1
b	The	e annual salary of a person is \$70 650. Find his weekly ome.		. 1
c		article was marked \$225 and was sold for \$150. nat was the percentage discount?		. 1
d	pri	article costing \$120 is sold at a loss of 25% of the cost ce. Find the selling price.		. 1
e		andlord charges an annual rent of \$15 381.60. In the monthly rent.		. 1
Qı	ıest	ion 2		
a		nn bought a house for \$350 000 and spent a further \$90 000 renovations. He then sold it, making a profit of 30%.		
	i 	How much profit did he make?		
	ii	What was the selling price of the house?		- 📖
b	Cameron earns \$18.70 an hour for a $37\frac{1}{2}$ -hour week, which Cathy earns \$15.40 an hour for a 40-hour week.			
	i	How much does Cameron earn in a week?		┤╠
	ii	How much does Cathy earn in a week?		· <u> </u>
	iii	Who earns more, and by how much?		- 1
Qı	ıest	ion 3		
a	Na	than receives a salary of \$66 900 per annum.		
	i	Calculate the amount he will receive each fortnight.		. 1
	ii	He pays 5% of his gross salary in superannuation. Calculate his fortnightly superannuation contribution.		. 1
b	Jaa	ni is paid a wage of \$32.85 per hour.		
	i	If Jaani works a normal 38-hour week, calculate his weekly wage.		. 1
	ii	What will Jaani's wage be in a week when, in addition to his normal hours, he works 5 hours at time-and-a-half and 3 hours at double time?		_ - [1]
	iii	Calculate the total amount Jaani will receive for his		
		4 weeks' annual leave if he is paid an annual leave loading of $17\frac{1}{2}\%$ on 4 weeks' normal wages.		. 1
		-	moules askieved for BART R	
		lotali	marks achieved for PART B	15