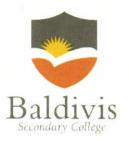
### Year 11 Essentials

# **Practical Application - Collaborative**



# 2 lessons in-class

James moved out of his parents' house at 24 years old, with \$12,500 in his bank account. He works two jobs so he has money left over after he pays for his rent, bills, car repayment, and groceries. He lives in a shared house with 2 other adults. James pays \$150 a week on rent, \$50 more a week than the others because he sleeps in the master bedroom. Their weekly rent is \$350 for a 3-bedroom, 2-bathroom house.

James' first job is a car salesman at Car Giant. He works Monday – Thursday, 8 hours a day earning a salary of \$35 000 a year, plus he receives 1% commission for each car he sells.

James' also works as a barista for local coffee shop called Coffee Co., he usually works Friday – Sunday, earning \$23.50 an hour.

#### Part One: Rent and Bills

James bought a car when he was 20 years old for \$15, 000. He borrowed \$10 000 from the bank at a rate of 2.3% simple interest for 5 years.

• If GST is included in the purchase price of his car, how much GST is included in the price?

• How much money does James have to pay the bank at the end of 5 years... if

Simple Interest = Principal 
$$\times \frac{Rate}{100} \times Time$$

$$= (0000 \times 2.3 \times 5)$$

$$= 1150$$

How much money is James spending a fortnight on his car repayments?

• James usually spends \$250 a month on groceries, how much does he spend a week?

• If GST was included into the total bill, how much GST is James paying a week on groceries?

 James and his housemates split the water and electricity bill evenly. The water bill is usually around \$225, which is paid 4 times a year. The electricity bill is usually around \$375 which is paid 3 times a year. How much does James need to put away each month to pay for water and electricity?

3people 
$$375 \times 3 = 1125$$
  
 $375 \times 3 = 1125$   
 $3025$   
 $3025 = $675 per year for James 675 = 56.25$   
 $3 = $56.25 per month$ 

# Part Two: Occupation

• How much would James earn in March being a car salesman, if he sold 6 cars in the month. 3x cars for \$21 000, 2x cars for \$28 000 and 1x car for \$15 000.

$$35000 = $2916.67 \text{ salary}$$
 $12$ 
 $3471000 = 63000$ 
 $175000 = $1750$ 
 $2471000 = 56000$ 
 $1 \times 15000 = 15000$ 
 $1 \times 15000 = 15000$ 
 $175000 = 15000$ 
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 How much money would James earn a week being a barista if he worked 8 hours on Friday (with a one-hour break), 5 hours on Saturday (with a half-hour break) and 5 hours on Sunday, (with time and a half pay, and a half an hour break)?

and a half pay, and a half an hour break)? 
$$Fr: day = 8 - 1 = 7 \text{ havs} \qquad 7 \times 23.50 = 164.5$$

$$Saturday = 5 - 0.5 = 4.5 \text{ h/s} \qquad 4.5 \times 23.50 \times 1.5 = 158.625$$

$$Sunday = 5 - 0.5 = 4.5 \text{ h/s} \qquad 4.6 \times 23.50 \times 1.5 = 158.625$$

$$Sunday = 5 - 0.5 = 4.5 \text{ h/s} \qquad 4.6 \times 23.50 \times 1.5 = 158.625$$

• Calculate his total fortnightly pay during the month of March, if he worked every Friday, Saturday and Sunday for the month at Coffee Co (same hours every week).

#### Part Three: Tax and Superannuation

		or 2018/2019 (residents)
Income thresholds	Rate	Tax payable on this income
\$0 - \$18,200	0%	NII
\$18,201 - \$37,000	19%	19c for each \$1 over \$18,200
\$37,001 ~ \$90,000	32.5%	\$3,572 plus 32.5% of amounts over \$37,000
\$90,001 - \$180,000	37%	\$20,797 plus 37% of amounts over \$90,000
\$180,000 and over	45%	\$54,097 plus 45% of amounts over \$180,000

If James' Gross pay is \$48 700 at Car Giant and \$20 000 at Coffee Co. how much tax is he paying?

$$Tax = 3572 + 0.325 \times (68700 - 37000)$$
  
= 3572 + 0.325 \times (31700)  
= 3572 + 10302.5  
= \$13874.50

• It is a legal requirement that James' employers also contribute an amount equal to 9.5% of his pay towards superannuation. What amount of superannuation is deposited each year?

### Part Four: James lifestyle

 Calculate how much money, James has left in his bank account at the end of March. Don't forget about his expenses.

 James needs \$7000 in savings to so he can travel to America, how long will it take him to save that much money?