

# SUVA SANGAM COLLEGE

## YEAR 11

### Mathematics Life Skills

### WORKSHEET 2

Strand 1	Social Mathematics
Sub-Strand	1.2 explore income and calculation methods
Content Learning Outcome	Calculate gross income in various ways (overtime rates)

#### Questions

<b>No.</b>	<b>CONCEPT IN BRIEF:</b> Overtime pay is often figured at one and a half times ( $\times 1.5$ ) the regular-time rate and is called <b>time-and-a-half</b> pay. Sometimes double-time pay is given for work over a certain number of hours, or for work on weekends and holidays. <b>Double-time</b> pay is twice ( $\times 2$ ) the regular-time pay rate. <i>regular pay = hours worked <math>\times</math> rate</i> <i>Time and a half pay = hours worked <math>\times</math> rate <math>\times 1.5</math></i> <i>Gross pay = regular pay + time and a half</i>
1.	Grace worked these hours last week: Monday, 11; Tuesday, 10; Wednesday, 9; Thursday, 8; Friday, 9. She is paid based on an 8-hour day with time-and-a-half for daily overtime. If Grace's regular-time pay rate is \$12.50 per hour, what gross wages did he earn last week?
	<b>CONCEPT IN BRIEF:</b> <i>regular pay = hours worked <math>\times</math> rate</i> <i>Time and a half pay = hours worked <math>\times</math> rate <math>\times 1.5</math></i> <i>double time = hours worked <math>\times</math> rate <math>\times 2</math></i> <i>Gross pay = regular pay + time and a half + double time</i>
2.	Rohit worked these hours last week: Monday, 9; Tuesday, 8; Wednesday, 9; Thursday, 6; Friday 8 hours. He worked 12 hours at time and a half and 6 hours of double time. Rohit is paid \$9.20 per hour for regular hours. Calculate his pay for the week?
	<b>CONCEPT IN BRIEF:</b> <i>Gross pay = regular pay + double time</i>
3.	Mr. Isaac worked the following schedule one week: Monday, 7 hours; Tuesday, 6 hours; Wednesday, 8 hours; Thursday, 9 hours; Friday, 8 hours. He also worked on Saturday for 8 hours at double time rate He was paid \$16.40 an hour. Calculate his gross pay for the week.