

# Salaries and Wages

**WALT understand salary and wages and calculate salaries**  
**Success Criteria - I understand the difference between wages and salaries**

**2. I know that there are 52 weeks in a year**

**Fortnight is 2 weeks**

**There are 12 months in a year**

**13 weeks in a quarter**

Employees who are paid a salary or wages may be permanent or casual. **Permanent** employees have security of employment through a workplace agreement and receive benefits such as sick leave and holiday leave. They may be employed **full-time** or **part-time**. Casual employees will be discussed in Section 5C.

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3 days a week is part-time. !

## EXAMPLE 1

Georgina works for 3 days a week and earns a salary of \$670.85 per week. How much does she earn per:

**a** fortnight?      **b** year?      **c** month?      **d** quarter?

	Solve	Think	Apply
<b>a</b>	Fortnightly = $\$670.85 \times 2$ = \$1341.70	There are 2 weeks in a fortnight. Multiply the weekly salary by 2.	There are 52 weeks in a year, and 12 months is not exactly 4 weeks as 4 weeks is 28 days. Monthly pay is averaged over 12 months.
<b>b</b>	Yearly = $\$670.85 \times 52$ = \$34 884.20	There are 52 weeks in a year. Multiply the weekly salary by 52.	
<b>c</b>	Monthly = $\frac{\$34\ 884.20}{12}$ = \$2907.02 to the nearest cent	There are 12 months in a year. Divide the yearly salary by 12. One month is <i>not</i> 4 weeks.	There are 3 months in a quarter, so the quarterly salary could also be found by multiplying the monthly salary by 3.
<b>d</b>	Quarterly = $\$670.85 \times 13$ = \$8721.05	One quarter of 52 is 13. Multiply the weekly salary by 13.	

**1** Neil works for 3 days a week and earns a salary of \$728.56 per week. How much does he earn per:

**a** fortnight?      **b** year?      **c** month?      **d** quarter?

**2** Convert the following weekly salaries into the equivalent salary per:

**i** fortnight      **ii** year      **iii** month      **iv** quarter.  
**a** \$914      **b** \$790      **c** \$1025.60      **d** \$984.60      **e** \$1378.94

## EXAMPLE 2

Harry works full-time and earns a salary of \$68 600 p.a.

How much does he earn per:

**a** week?

**b** fortnight?

**c** month?

**d** quarter?

p.a. is short for per annum, which means per year. !

	Solve	Think	Apply
<b>a</b>	$\text{Weekly} = \frac{\$68\,600}{52}$ $= \$1319.23$ to the nearest cent	There are 52 weeks in a year. Divide the yearly salary by 52.	Yearly amounts allow conversions to be straightforward. If unsure about converting, calculate the yearly amount first.
<b>b</b>	$\text{Fortnightly} = \frac{\$68\,600}{26}$ $= \$2638.46$ to the nearest cent	There are 26 fortnights in a year. Divide the yearly salary by 26.	
<b>c</b>	$\text{Monthly} = \frac{\$68\,600}{12}$ $= \$5716.67$ to the nearest cent	There are 12 months in a year. Divide the yearly salary by 12.	
<b>d</b>	$\text{Quarterly} = \frac{\$68\,600}{4}$ $= \$17\,150$	There are 4 quarters in a year. Divide the yearly salary by 4.	

**3** Tara works full-time and earns a salary of \$64 800 p.a. How much does she earn per:

**a** week?

**b** fortnight?

**c** month?

**d** quarter?

**4** Convert the following yearly salaries to the equivalent salary per:

**i** week

**ii** fortnight

**iii** month

**iv** quarter.

**a** \$52 400

**b** \$36 600

**c** \$95 370

**d** \$76 280

**e** \$82 900

**5** Convert the annual salaries shown in the advertisements below to the equivalent:

**i** weekly salary

**ii** fortnightly salary

**iii** monthly salary.

**a**

### Fashion

**Girl's Surfwear Designer**  
\$80K  
Exciting position for the right person. Ph 9444 222

**b**

### Foreman \$110K

Experienced foreman required for city project. Ph 9333 000

**c**

**Cleaner/Housekeeper**  
\$40K Rare opportunity to work in fine home.  
Ph 9666 000

\$40K is a short way of indicating \$40 000. !

## EXAMPLE 3

Bruno is employed full-time and earns a salary of \$4600 per month. What is his equivalent weekly salary?

Solve	Think	Apply
$\text{Yearly salary} = \$4600 \times 12$ $= \$55\,200$ $\text{Weekly salary} = \frac{\$55\,200}{52}$ $= \$1061.54 \text{ to the nearest cent}$	Find the yearly salary first by multiplying \$4600 by 12. Then find the weekly salary by dividing by 52.	Do not divide monthly by 4. Most months are 4 weeks plus 2 or 3 extra days, so always convert to yearly.

**6** Samantha is employed full-time and earns \$6900 per month. What is her equivalent weekly salary?

**7** Convert the following monthly salaries to the equivalent weekly salaries.

**a** \$4200

**b** \$2890

**c** \$5635

**d** \$7000

**e** \$3599

**8** Scott earns \$68 840 p.a., Lisa earns \$1350 per week, Paula earns \$5700 per month and Tranh earns \$17 050 per quarter. Who earns the most?

### EXAMPLE 4

Ella works a 35-hour week as a waitress and is paid \$23.86 per hour. What is her weekly wage?

Solve	Think	Apply
$\begin{aligned} \text{Weekly wage} &= \$23.86 \times 35 \\ &= \$835.10 \end{aligned}$	Find the pay per week by multiplying the hourly rate of \$23.86 by 35 hours.	Many positions are paid by the hour.

- 9 Dean works a 35-hour week and is paid \$21.70 per hour. What are his weekly wages?
- 10 Calculate the weekly wages for a person who works a 35-hour week and is paid:  
**a** \$18.90/h      **b** \$22.30/h      **c** \$26.48/h      **d** \$53.67/h      **e** \$84.50/h

### EXAMPLE 5

Yoshi earns \$992.50 for working a 25-hour week as a security guard. What is his hourly rate of pay?

Less than 30 hours a week is part-time. !

Solve	Think	Apply
$\begin{aligned} \text{Hourly rate} &= \frac{\$992.50}{25} \\ &= \$39.70 \end{aligned}$	Find the hourly rate by dividing the weekly wage of \$992.50 by 25 hours.	The hourly rate is useful to compare pay rates for different jobs.

- 11 Lauren earns \$715 for working a 25-hour week. What is her hourly rate of pay?
- 12 Calculate the hourly rate of pay for Phil who works a 25-hour week and is paid the following weekly wages:  
**a** \$710      **b** \$877.50      **c** \$605      **d** \$485      **e** \$447.50

### EXAMPLE 6

Sophie works a 38-hour week and is paid \$28.75 per hour. How much does she earn in a:

- a** week?      **b** fortnight?      **c** year?      **d** average month?

	Solve	Think	Apply
<b>a</b>	$\begin{aligned} \text{Weekly wages} &= \$28.75 \times 38 \\ &= \$1092.50 \end{aligned}$	Find the weekly wage by multiplying the hourly rate of \$28.75 by 38 hours.	Always convert to a weekly or annual wage to find the amount over other time periods.  Remember: 1 month is not equal to 4 weeks. !
<b>b</b>	$\begin{aligned} \text{Fortnightly wages} &= \$1092.50 \times 2 \\ &= \$2185 \end{aligned}$	Find the fortnightly wage by multiplying the weekly wage by 2.	
<b>c</b>	$\begin{aligned} \text{Yearly wages} &= \$1092.50 \times 52 \\ &= \$56\,810 \end{aligned}$	Find the yearly wage by multiplying the weekly wage by 52.	
<b>d</b>	$\begin{aligned} \text{Monthly wages} &= \frac{\$56\,810}{12} \\ &= \$4734.17 \\ &\text{to the nearest cent} \end{aligned}$	There are 12 months in a year, so divide the yearly wage by 12.	

**13** Trevor earns \$17.20 per hour and works a 36-hour week. How much does he earn in a:

- a** week?
- b** fortnight?
- c** year?
- d** average month?

**14** If a person is paid the following hourly rates for a 38-hour week, how much do they earn in a:

- i** week?
- ii** fortnight?
- iii** year?
- iv** month?
- a** \$43/h
- b** \$27.60/h
- c** \$52.90/h
- d** \$18.45/h
- e** \$75.30/h
- f** \$23.55/h



## Check your Answers

- 1** a \$1457.12                                   **b** \$37 885.12  
       **c** \$3157.09                                   **d** \$9471.28
- 2** a **i** \$1828                                       **ii** \$47 528  
       **iii** \$3960.67                               **iv** \$11 882  
 b **i** \$1580                                       **ii** \$41 080  
       **iii** \$3423.33                               **iv** \$10 270  
 c **i** \$2051.20                                  **ii** \$53 331.20  
       **iii** \$4444.27                               **iv** \$13 332.80  
 d **i** \$1969.20                                  **ii** \$51 199.20  
       **iii** \$4266.60                               **iv** \$12 799.80  
 e **i** \$2757.88                                  **ii** \$71 704.88  
       **iii** \$5975.41                               **iv** \$17 926.22
- 3** a \$1246.15                                     **b** \$2492.31  
       **c** \$5400                                       **d** \$16 200
- 4** a **i** \$1007.69                                  **ii** \$2015.38  
       **iii** \$4366.67                               **iv** \$13 100  
 b **i** \$703.85                                     **ii** \$1407.69  
       **iii** \$3050                                    **iv** \$9150  
 c **i** \$1834.04                                  **ii** \$3668.08  
       **iii** \$7947.50                               **iv** \$23 842.50  
 d **i** \$1466.92                                  **ii** \$2933.85  
       **iii** \$6356.67                               **iv** \$19 070  
 e **i** \$1594.23                                  **ii** \$3188.46  
       **iii** \$6908.33                               **iv** \$20 725
- 5** a **i** \$1538.46                               **ii** \$3076.92                           **iii** \$6666.67  
 b **i** \$2115.38                               **ii** \$4230.77                           **iii** \$9166.67  
 c **i** \$769.23                               **ii** \$1538.46                           **iii** \$3333.33
- 6** \$1592.31
- 7** a \$969.23                                       **b** \$666.92  
       **c** \$1300.38                                  **d** \$1615.38  
       **e** \$830.54
- 8** Lisa (\$70 200 p.a.)
- 9** \$759.50
- 10** a \$661.50                                     **b** \$780.50                           **c** \$926.80  
       **d** \$1878.45                               **e** \$2957.50
- 11** \$28.60/h
- 12** a \$28.40/h                                   **b** \$35.10/h  
       **c** \$24.20/h                                   **d** \$19.40/h  
       **e** \$17.90/h
- 13** a \$619.20                                     **b** \$1238.40  
       **c** \$32 198.40                               **d** \$2683.20
- 14** a **i** \$1634                                       **ii** \$3268  
       **iii** \$84 968                                **iv** \$7080.67  
 b **i** \$1048.80                                  **ii** \$2097.60  
       **iii** \$54 537.60                             **iv** \$4544.80