Earning Income





Todd manages a music store. Most of his employees are paid by the hour.

A.	What are some other jobs that pay by the hour?
B.	What are some other ways people get paid to work?

Hint

Hint

In these

calculations, "of" means multiply.

A percent is a fraction out of 100.

Getting Started

1. Write each fraction as a decimal.

a)
$$\frac{5}{100} =$$

c)
$$\frac{75}{100} =$$

b)
$$\frac{17}{100} =$$

d)
$$\frac{6}{10} =$$

2. Write each percent as a decimal.

a)
$$5\% = \frac{5}{100} =$$

3. Calculate each percent.

$$= 0.04 \times 500$$

= ____

Tech Tip

Percent of a Number

Calculate 5% of 420. If your calculator has a 5% key, enter

420 × 5 % or 420 × 5 2nd % =

If your calculator does not have a 🥌 key, enter



4. Calculate each percent.

b) 12% of 584 = _____ **d)**
$$2\frac{1}{2}$$
% of 3450 = _____

Write each decimal as a fractic	raction	frac	а	as	decimal	each	Write	5 .
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- **a)** 0.25 = _____ **c)** 0.80 = ____
- **b)** 0.75 =
- **d)** 0.08 =

6. Write each length of time in hours and minutes.

- a) 8.5 hours = ____ h ___ min
- **b)** 24.75 hours = _____ h ___ min
- **c)** 17.25 hours = ____ h min
- **d)** 40.3 hours = ____ h ___ min



Write each length of time as a decimal in hours.

- a) 12 h 30 min = ____ h c) 36 h 45 min = ___ h
- **b)** 9 h 15 min = _____ h **d)** 45 h 20 min = ____ h

8. What is the total number of hours?

- a) 8 h a day, 5 days a week for 50 weeks:
- b) 7.5 h a day, 6 days a week for 52 weeks: ____ h
- c) 42 h a week for 2 years:
- d) 120 h a month for 5 years: h

9. What is double the value of each number?

- a) 12 × 2 = ____
- c) $14.25 \times 2 =$
- **b)** $13.5 \times 2 =$
- **d)** $11.8 \times 2 =$

10. Determine each value multiplied by a factor of 1.5.

- a) $10 \times 1.5 =$
- **c)** 14.5 × 1.5 = _____
- **b)** 15 × 1.5 =
- **d)** 13.4 × 1.5 = _____

11. Calculate.

- a) 5.67 + 3.39 = c) $4.7 \times 5 =$
- **b)** 12.66 4.38 = **d)** $40 \div 0.2 =$

1.1

Identifying Ways of Earning Income

tin these

Use mental math to calculate.

- i) \$500 + \$750 + \$1200 + \$250 = \$
- ii) \$10 000 + \$12 150 + \$3 820 = \$__

income money received for work People who work earn **income** in different ways. The way they are paid depends on the type of job they have.

ys of Earning Inco	
hourly wage	a fixed payment for each hour of work
No.	Examples: store clerk, fast-food restaurant worker
wage and tips	an hourly wage plus varying amounts in tips for services provided
	Examples: taxi driver, hotel worker
salary	a regular fixed payment for work, usually expressed as an amount per year but paid regularly (e.g., every two weeks or monthly)
	Examples: firefighter, teacher
commission	a payment based on a percentage of the worker's sales
	Examples: real estate agent, car salesperson
royalty	a payment for a piece of work that is marketed and sold. The amount is based on a percentage of sales
	Examples: author, musician
y Lw . Sa	and the second with the company we see advanced the second of the second
piecework	a payment based on the number of items created or completed
	Examples: sewing machine operator, cable TV installer
contract	a payment for a fixed period of time and/or a fixed amount of money
	Examples: electrical contractor, editor

Practice

1. Match each job with the payment method. Job **Payment Method** video store clerk salary police officer piecework screenplay writer hourly wage tour guide royalty fruit picker hourly wage and tips furniture salesperson contract landscape architect commission 2. Identify the way each worker below might be paid. Explain how you know. a) assembly line auto worker _____ b) motorcycle and ATV salesperson _____ c) recording artist _____ 3. List three jobs that might be paid each way. Research some ideas. a) wage and tips _____ b) contract ____ 4. List three jobs you might be interested in. For each job, identify the way you might be paid.

1.2

Salaries and Contracts

Tal These

annual for a year Nellie is the head chef at a restaurant. Her annual salary is \$56,000.

- 1 How much does Nellie earn each month?There are 12 months in a year.\$56 000 ÷ _____ = \$____ each month
- 2 How much does Nellie earn each week?
 There are about 52 weeks in a year.
 \$56 000 ÷ ____ ≐ \$____ each week

Hint

The sign ≐ means "approximately equal to."

Example 1

Sarah designs houses. She is paid by contract from each builder. This year she earned \$25 000, \$15 200, \$19 750, and \$31 800 on four contracts. What is her **gross income**?

gross income

the total amount of money earned in a pay period before any deductions

Solution

- A. What is the sum of the amounts earned on the contracts? \$25 000 + \$_____ + \$_____ + \$_____
- B. What is Sarah's gross income?

 Sarah's gross income is \$_____

Example 2

Azif is a project manager for a publishing company. His yearly salary is \$65 000. This year he will also get a **bonus** that is 2% of his salary. What is Azif's gross income?

bonus

an additional payment to a worker as a reward for meeting company goals

Solution 1

A. How much is Azif's bonus? 2% of \$65 000 = ____ × \$65 000

B. What is Azif's gross income, including the bonus? \$65 000 + \$____ = \$___

Solution 2

A. What is the total percentage of the salary Azif earns, including his bonus?

REFLECTING

Do you prefer Solution 1 or Solution 2? Why?

B. Azif's gross income is _____% of \$65 000.

Practice

1. Complete the chart. Round your answers to two decimal places.

Name	Annual salary	Monthly earnings	Weekly earnings
Andre	\$32 000	\$	\$
Clair	\$24 500	\$	\$
Heiko	\$41 200	\$	\$
Lyla	\$52 850	\$	\$

- 2. Use mental math.
 - a) What is the annual salary for monthly earnings of \$5100?
 - b) What is the annual salary for weekly earnings of \$500?

3. Sunny is a junior graphic designer. Last year she earned the following amounts from three different contracts: \$12 850, \$15 000, and \$13 200. What was her gross income?

Hint Determine the annual salary first. Then use this answer to determine the monthly and weekly earnings.

4. Complete the chart. Round your answers to two decimal places if necessary.

Name	Annual salary	Monthly earnings	Weekly earnings
Bart	\$	\$2250	\$
Nadia	\$	\$	\$745
Rhaj	\$	\$1865	\$
Lee	\$	\$	\$590

5. Calculate.

- 6. Lang is an accountant in Vancouver with an annual salary of \$68 200. He gets a 2.4% bonus if his firm does well. What is the maximum gross income Lang can earn?
- 7. Determine the amount of each bonus and the gross income.

Job	Annual salary	Bonus (%)	Bonus amount	Gross income
publisher	\$63 400	3	\$	\$
bank manager	\$72 800	4	\$	s
warehouse worker	\$39 200	1.5	\$	\$
legal secretary	\$45 500	2	\$	\$

- 8. Jhamil is a software developer in Red Deer, Alberta. Last year her gross income was \$58 300 from four different contracts. Three of these paid \$8 300, \$12 750, and \$22 400. What was the value of the fourth contract?
- 9. Which is greater?
 - a) an annual salary of \$48 000 or an annual salary of \$46 500 plus a 1% bonus?
 - b) a one-year contract for \$72 500 or an annual salary based on \$1550 per week?
- 10. Matthew has a part-time job that pays \$358 per week. He wants to get another job so that he will earn \$28 000 per year. How much does he need to earn at his other job?
- 11. Ben is a human resources assistant in Saskatoon, Saskatchewan. Last year his salary was \$48 000, and his gross income was \$49 400.
 - a) Calculate Ben's bonus.
 - b) What percentage of Ben's salary was his bonus?
- **12.** Darla earns \$50 every two weeks delivering newspapers. Chris earns \$50 twice a month walking dogs. Who earns more per year?



1.3

Calculating Income: Hourly Wage

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i)
$$\$8.50 \times 40 = \$$$

Rachelle earns \$12.45 per hour as a cashier at a grocery store. Last week she worked 35 hours.

What was Rachelle's gross income for the week?

Rachelle's gross income was \$ _____.

Example

Denzel works at a tire manufacturing plant and earns \$10.20/h on day shift. When he works the evening or night shift, he earns a **shift premium** of \$1.15/h. Last month he worked 80 h on day shift, 40 h on evenings, and 40 h on nights. What was his gross income for the month?

shift premium an additional amount of money for working outside of regular workday hours or

on weekends

Solution

A. How much did Denzel earn on day shift last month?

h × \$10.20/h = \$_____

B. What is Denzel's hourly wage on the evening or night shift? 10.20/h +____/h

C. How much did Denzel earn on the evening and night shifts last month?

REFLECTING
Why do you think
companies pay a
shift premium to
workers?

D. What was Denzel's gross income for the month?

Denzel's total income was \$_____.

Practice

1. Complete the chart.

Job	Hourly wage	Number of hours worked	Gross income
landscaper	\$9.85/h	40	\$
janitor	\$19.50/h	35	\$
dog groomer	\$11.25/h	20	\$
security guard	\$15.30/h	12	\$

2. Calculate.

3. Complete the chart.

Job	Hourly wage	Number of hours worked	Gross income
painter	\$	50	\$537.50
animal shelter worker	\$	18	\$202.50
dishwasher	\$	27	\$247.05
crossing guard	\$	12.5	\$130.63

4. Aniela works at a library and earns \$15.75/h. Hannah works at a sporting goods store and earns \$10.45/h. Last week Aniela worked for 30 hours and Hannah worked for 35. Who had the higher gross income for the week?

Aniela:

Hannah:

5. Cory earns \$9.90 per hour. After three months he will get a \$0.75 raise. What will his new hourly rate be?

6. Determine the hourly wage for each day listed. Shift premiums are paid only on weekends for these jobs.

Regular hourly wage	Shift premium	Day of the week	Hourly wage
\$9.25/h	\$0.55/h	Saturday	\$
\$17.50/h	\$1.25/h	Friday	\$
\$21.25/h	\$2.00/h	Sunday	\$
\$16.60/h	\$0.85/h	Wednesday	\$

Bonnie's Hours

	Hours worked
Mon.	8 -
Tues.	8
Wed.	8 ,
Thurs.	8
Fri.	8
Sat.	12
Sun.	0

7. Bonnie earns \$28.50/h as a welder plus a shift premium of \$1.75 for working on weekends. A summary of her hours is shown. What was Bonnie's gross income for the week?

Total	weekday	hours: _	Rate:	
Total	weekend	hours: _	Rate:	

8. Harli works for a hair salon earning \$12.45/h. Last week she worked 40 h.

Marco is a bricklayer earning \$15.80/h plus a shift premium of \$1.10/h for working evenings. Marco also worked 40 h last week, but 8 of these were in the evening.

a) Calculate each worker's gross income.

Harli:

Marco:

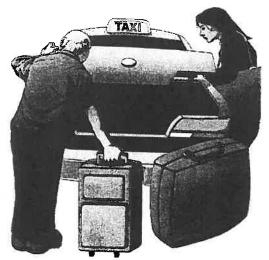
has the higher gross income for the year and by how much?

- b) Who earned more and by how much?
- 9. Borys earns \$55 000/year as a teacher.
 Jarrod is a plumber earning \$28.50/h.
 If Jarrod works 40 h each week for 50 weeks each year, who

- 10. Every province in Canada has a minimum hourly wage that employers must pay their workers.
 - a) What is the current minimum wage in your province or territory? \$_____ per hour
 - b) If you had a part-time job and worked for 24 hours in a week, what would your gross income be for a week if you were paid the minimum wage?
- 11. Abbygail works 37.5 hours per week in Dawson City, Yukon, for minimum wage. What is her weekly gross income?

Hint
Use the Internet to find out the current minimum wage in Yukon.

12. Vince earns \$12.25/h as a taxi driver working an average of 50 h each week. He usually earns \$90 in tips each week and works 50 weeks each year. What is Vince's gross annual income?



13. Star works part time as a waitress. She earns \$10/h and makes \$50 in tips each week. If she works 20 h each week, how many weeks will it take her to earn \$3000?

1.4

Calculating Income: Overtime

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i)
$$2 \times \$8.25 = \$$$

time and a half the hourly wage multiplied by a factor of 1.5 Manny works on a farm near Moose Jaw, Saskatchewan. He clocks in and out of work using a time card. He earns \$9.20/h and is also paid **time and a half** for any hours worked over 40 h in one week. His time card for one week is shown. What is Manny's gross income for the week?

	ln	Out	ln .	Out	Shift	Hours worked	Time off hours	Total hours
Thursday	06:07 A	01:00 P	01:25 P	04:03 P	1	9.50		9.50
Friday	06:00 A	12:59 P	01:27 P	04:27 P	1	10.00		10.00
Saturday	05:58 A	11:01 A	:	-:	1	5.00		5.00
Sunday					1			
Monday	06:05 A	12:58 P	01:27 P	03:08 P	1	8.50		8.50
Tuesday	06:02 A	12:51 P	01:18 P	04:00 P		9.50		9.50
Wednesday	05:58 A	12:00 P	12:30 P	04:00 P	1	9.50		9.50
	Regular	40.00	Ove	rtime	12.00	Other 0.0	0 Tota	al 52.00

그렇게 하는 회에 가장 보는 그 없다. 그 없는 사람들이 되는 것 같아. 그런 그런 그런 그런 그런 사람들이 되는 사람들이 없는 것

How much does Manny earn for the first 40 hours he works?
40 h × \$_____/h = \$_____

REFLECTING

What time does
Manny start work,
and when does
he take his
lunch break?

- What is Manny's hourly wage for overtime hours?

 \$____/h × 1.5 = \$___/h
- How much does Manny earn for his overtime hours? $h \times$ /h =\$
- What is Manny's gross income for the week?

Example

Astrid works in the oil and gas industry near Fort McMurray, Alberta. She earns \$28.30/h and makes **double time** for hours worked beyond 40 each week. Calculate Astrid's gross income for 45.25 hours worked last week.

double time the hourly wage multiplied by 2

Solution

- **A.** How much does Astrid earn for the first 40 hours she works? $40 \times \frac{1}{h} = \frac{1}{h}$
- B. How much does Astrid earn for overtime hours?Hourly wage for overtime:Total for overtime hours:
- **C.** What is Astrid's gross income for the week? \$_____ + \$____ = \$____

Practice

- 1. Darcy earns \$22.40 per hour as a lathe operator, plus time and a half for hours worked over 40 hours each week.
 - a) Complete Darcy's time card.

	ln	Out		Out	Hours worked	Total hours
Monday	7:00 AM	11:30 AM	12:00 PM	3:30 PM	,	
Tuesday	6:59 AM	11:28 AM	12:01 PM	3:32 PM		
Wednesday	6:55 AM	11:26 AM	11:59 AM	3:29 PM	A CONTRACT OF THE STATE OF THE	<u>Lang, Feljege gestfije</u>
Thursday	6:57 AM	11:32 AM	12:03 PM	5:00 PM		
Friday	6:58 AM	11:30 AM	12:01 PM	6:15 PM	The second secon	
Saturday			12:00 PM	4:15 PM		
Sunday				AANTA AARAA MARAARAA AARAA		<u> a pidat we, e project</u>
	Regular		Overtime		Total	

b) What was Darcy's gross income for the week?

- 2. Brent has a job with the city parks department earning \$18.60/h. If he works more than 40 h in a week, he earns time and a half. What was his gross income for working 46.5 hours in one week?
- **3.** Penny earns \$28.20/h as an electrician, plus double time for any hours over 40 hours each week.
 - a) Complete Penny's time card.

	In	Out	in	Out	Hours worked	Total hours
Monday	8:00 AM	12:30 PM	1:00 PM	5:30 PM		
Tuesday	7:58 AM	12:29 PM	1:01 PM	4:32 PM		
Wednesday	7:55 AM	12:30 PM	1:00 PM	6:29 PM		
Thursday	6:58 AM	11:32 AM	12:03 PM	6:00 PM		
Friday	6:59 AM	11:30 AM	12:01 PM	4:30 PM		
Saturday						
Sunday						
	Regular		Overtime		Total	

- **b)** What is Penny's gross income for the week?
- 4. Shelly earns \$18.50/h as a child-care worker plus time and a half for hours over 40 hours a week.

Pablo works at a hockey arena and earns \$14/h for 37.5 h worked each week and double time for hours above this. If they both work 45 h in a week, who is paid more?

Mid-Chapter Review

1. Name a job that might be paid in each way.

a)	hourly wage	
b)	salary	
c)	contract	
d)	royalty	

- 2. Sarit manages a clothing boutique and has an annual salary of \$23 600. Aparnah works in a shoe store and is paid \$9.80/h for 40 hours each week. Who has the higher gross income each month?
- **3.** Monique is a freelance editor with a contract that will pay her \$15 500 over five months. Minaku works 160 h each month for a newspaper and earns \$17.50/h. Who has the higher gross income over this five-month period?
- 4. Jacques works for a deck and fence building company. He is paid an hourly wage of \$20.50. He usually works 8 h a day, 5 days a week. When he works more than 40 h in a week, he earns time and a half. What is Jacques' gross income for working 52 h in a week?



5. Jarrod earns an annual salary of \$55 300. This year he will receive a 2% bonus. Marie earns \$440/week in wages and \$150/week in tips. Who earned more this year?

Calculating Income: Commission

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straight commission payment based only on sales made

Ali is a real-estate agent earning straight commission. His commission rate is 4% of the selling price of each home he sells. This month he sold two homes. What was his commission?

12 Brookfield Place

\$255 000

246 Pine Street

\$304 999

What is the total value of the homes Ali sold?

What is the amount of commission Ali earned?

Ali earned \$ in commission this month.

Example 1

base salary

payment for a given work period, such as an hour or a week, but not including additional pay Sabina is a salesperson at Electronics Empire earning a base salary of \$340/week. She also earns 1.5% commission on the total value of all the goods she sells each month. These are her sales for November:

November 1–15

\$55 340

November 16–30

\$75 920

What was Sabina's gross income for November?

REFLECTING

Compare Sabina's sales for the first half of the month to those in the last half. Why do you think they differ?

Solution

A. What was Sabina's base salary for the month?

4 weeks × \$ /week = \$

B. What was the total value of Sabina's sales for the month?

C. What was the value of Sabina's commission for the month?

D. What was Sabina's total income for the month?

Example 2

Jasmine sells clothing part time at BB's Boutique.

monthly salary: \$950

 4% commission on the first \$15 000 of her sales for the month

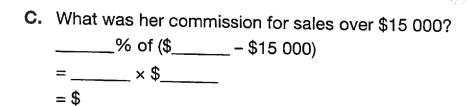
• 6% commission on sales over \$15 000

Jasmine's total sales for September were \$28 200. What was Jasmine's gross income for the month?

Solution

A. What is Jasmine's base salary for the month?

B. What was her commission for \$15 000 in sales?
_____% of \$15 000 = \$_____



Practice

1. Determine the amount of commission for each person's sales.

Salesperson	Commission rate	Total sales	Commission earned
Brock	5%	\$12 000	\$
Monica	3%	\$49 520	\$
Katrina	1.5%	\$24 050	\$
Tootega	2.5%	\$41 225	\$



2. Akheem sells contracts for wireless devices. He earns 4% straight commission on his weekly sales.

a) Use the chart to determine Akheem's gross income for June.

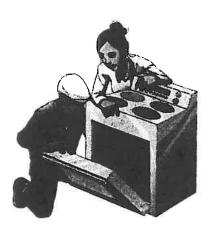
Date	Commission rate	Total sales	Commission earned
June 1-7	4%	\$5000	\$
June 8-14	4%	\$4850	\$
June 15–21	4%	\$6050	\$
June 22-28	4%	\$3240	\$

Total \$_____

b) How could you calculate Akheem's gross income using a different strategy?

3. Petra works in a shoe store earning \$285 a week plus 3% commission on her sales. Last week her sales were \$4200. What was Petra's gross income for the week?

- 4. Art sells cars. He earns a base salary of \$450/week and 1.5% commission. What was Art's gross income last month when his total sales were \$125 950?
- 5. Juanita earns \$1250 monthly selling large appliances. She also earns 2% commission on her first \$20 000 in sales and 3.5% on sales over \$20 000 each month. Her total sales for March were \$34 320. What was Juanita's gross income for the month?



6. Mario earns 3% straight commission. Brent earns a monthly salary of \$3400 and 1% commission on his sales. If they both sell \$245 000 worth of merchandise, who earns the higher gross monthly income?

Mario:

Brent:

7. Tamara wants to earn \$3000 next month. She earns a base salary of \$600 a month plus 3% commission on sales. How much would she have to sell to earn her target?

8. If you had a job as a salesperson, would you want to earn straight commission or a base salary plus a commission? Explain your thinking.

1.6

Calculating Income: Piecework

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Dominic delivers catalogues. He is paid 30¢ for each catalogue he delivers. Last night he delivered 243 catalogues. How much did Dominic earn last night?

Example

Rosco sells programs at the Edmonton Oilers hockey games. He earns \$20 per game plus 23¢ for each program he sells. Last game he sold 244 programs. How much did he earn?

Solution

REFLECTING

How does
piecework benefit
the worker? How
does piecework
benefit the
employer?

Practice

1. Determine the gross earnings for each person.

Job	Payment	Number	Earnings
telemarketer	25¢/call	331 calls	\$
cleaner	\$80/home	8 homes	\$
apple picker	\$2.25/basket	45 baskets	\$
tire installer	\$1.50/tire	80 tires	\$

- 2. Kat sells T-shirts at concerts. She is paid \$25 per concert and 50¢ for each T-shirt she sells. What were Kat's gross earnings for selling 174 T-shirts at one concert?
- 3. Juan prunes fruit trees. Last week he was paid \$660 for pruning 240 trees. How much was Juan paid for each tree?
- 4. Harry assembles cardboard boxes and packs them with canned soup. He averages 320 boxes per day and is paid 30¢ per box. If he works 5 days a week for 50 weeks each year, what is his gross yearly income?
- Jackie is paid \$2.00/basket for picking blueberries. Last year she was paid \$1.85/basket.
 - a) How much will she earn this year for 135 baskets?
 - b) How much more will she earn this year than last year for 135 baskets?

Comparing Types of Income

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Paul earns \$9.40/h. Yvonne earns \$8.10/h and gets time and a half for hours worked over 40 h per week. Compare their incomes for working 50 h one week.

Example 1

Sanjay is a waiter and Jon sells magazine subscriptions. Who has the higher gross annual income if they both work 50 weeks?

Solution

REFLECTING

What are some advantages and disadvantages of how Sanjay and Jon are paid?

A. How much does Sanjay earn each year from his hourly wage?

$$_{/h \times 40 \text{ h} \times 50 = }$$

B. How much does Sanjay earn each year from tips?

C	. What is Sanjay's gross income for one year? \$ + \$ = \$	
D.	. How much does Jon earn each year from his weekly sala \$/week × weeks = \$	ary?
E.	How much does Jon earn each year from commission? 4% of \$ × 50 = \$	
F.	What is Jon's gross income for one year? \$ + \$ = \$	
G.	Who has the higher gross annual income?	
Jo tim La Aid at	dy installs and repairs telephones. She earns \$21.20/h plus ne and a half for any hours she works over 40 hours a week st week she worked 49 hours. dan earns an annual salary of \$43 000 as the director of sal a computer company. no had the higher gross income last week?	ά. • Τ
	lution How much did Jody earn for the first 40 h she worked? \$/h × 40 h = \$	REFLECTING What are some
B.	How much did Jody earn in overtime for the week? \$h × h = \$	advantages and disadvantages of how Jody and Aidan are paid?
C.	What was Jody's gross income for last week? \$ + \$ = \$	Total Pay = 848 + 286.20
D.	What was Aidan's gross income for the week? \$ = \$	= \$1134.20
E.	Who had the higher gross income for the week?	

had the higher gross income.

Practice

- 1. For 40 hours a week, 50 weeks a year, what hourly wage is equivalent to an annual salary of \$34 000?
- 2. Mindy is an electrician and Bridgit assembles computers.
 - Mindy earns \$24.50/h and a shift premium of \$1.50/h for hours worked after 8 p.m. Last week she worked 45 h, including 5 h Tuesday night.
 - Bridgit earns \$6.25 for each computer.

How many computers must Bridgit assemble in a week to match Mindy's gross income for the week?

- 3. Suppose you would like to earn at least \$300 a week and you have two part-time job offers.
 - Job A pays \$9.25/h, 35 h a week
 - Job B pays \$8.10/h, 20 h a week, plus 5% commission on sales of about \$3000/week

Which job would you take? Why would you take that job?

4. The company that Lars works for installing car stereos has changed ownership. He used to earn \$12.20/h for a 40 h week. Now he is paid \$35 for each stereo he installs and he averages 15 installations a week. Does this change benefit Lars? Explain.

5. Liza is a bank teller earning an annual salary of \$35 000. Sasha works as a legal secretary and is paid \$15.40/h and double time for hours over 35 each week. How many hours of overtime must Sasha work each week to earn as much as Liza?



6. Alice manages a big-box store and earns \$55 800 a year. This year her company met all sales targets and she will receive a bonus that is 3% of her salary. Jeff installs heating and cooling equipment for \$21.75/h and double time for hours worked over 40 h a week. He averages 50 h each week. Who has the higher gross annual income?

7. Compare the methods of earning income.
a) If you were a swimming pool installer, would you prefer to be paid by salary or piecework? Explain why.
b) If you were a machine operator, would you prefer to be paid an hourly wage plus overtime or a salary? Explain why.
8. Pick an occupation you are interested in. Find out the method and amount of payment.

1.8

Calculating Net Income

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Marc works for a landscaping company. Last week his gross income was \$287. His deductions totalled \$45.36. What is Marc's **net income**?

net income

the money left after deductions are taken from gross income; also called takehome pay

Subtract Marc's deductions from his gross income.

What is Marc's net income? \$_____

Standard Government Deductions

Income Tax

a portion of an employee's earnings that federal and provincial governments use to provide services

Employment Insurance

a fund that provides a source of income to people who lose their jobs (through no fault of their own) while they look for a new job

Canada Pension Plan (CPP)

a government fund that provides a monthly pension to workers when they retire

Example 1

Deduction	Rate
Income tax	15%
E	1.73%
CPP	4.95%

Shannon is the manager of a sporting goods store earning \$770 weekly. Calculate her standard deductions.

Solution

Income tax: _____% of \$770 = \$_____

El deduction: _____% of \$770 = \$_____

CPP deduction: _____% of \$770 = \$_____

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Company Pension Plan	a fund that provides a company pension during retirement, in addition to CPP
Company Health Plan	a plan for medical expenses not covered by other government health care plans
Life Insurance	a plan that pays a sum of money to a family member or designated beneficiary in the case of an employee's death
Disability Insurance	a plan that provides a source of income when an employee is injured and unable to work
Union Dues	a deduction made when an employee belongs to a union. Unions negotiate wages, benefits, and working conditions with employers.
Payroll Savings	an option for employees to make a regular contribution to a savings plan, such as Canada Savings Bonds
Charitable Donations	an option for employees to make a regular donation to a charity

Example 2

Todd earns a weekly salary of \$635 as a computer technician. The deductions from his gross income are shown at the right. What is his net income for a week?

Solution

A. What are Todd's total deductions?

B. What is Todd's net income for a week? \$635 – \$____ = \$___

Practice

Shania's monthly salary is \$5208.50, before deductions.
 Use the chart at the right to determine her standard deductions.

Deduction	Rate
Income tax	15%
E	1.73%
CPP	4.95%

Deductions

EI: \$8.70 CPP: \$31.43

Income tax: \$95.25 Company pension:

\$19.55 Disability

insurance: \$15.75

REFLECTING

What are other possible deductions that could be subtracted from Todd's pay cheque?

Deductions

EI: \$9.08 CPP: \$25.99

Income tax: \$78.75 Life insurance: \$11.20 2. Gwen's gross income is \$525. Her deductions are shown. Calculate her deductions and her net income.

3. Complete the chart.

Name	Gross income	Deductions	Net income
Jill	\$368.45	\$94.16	\$
Elise	\$538.09	\$	\$412.37

- 4. Kandice earns \$19.20/h and is paid time and a half for each hour worked over 40 h a week. Last week she worked 43 h.
 - a) What is Kandice's gross income?

Deduction	Rate	
Income tax	15%	
El	1.73%	
CPP	4.95%	

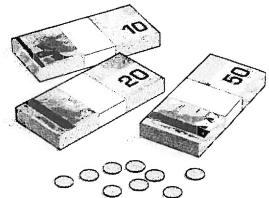
- b) Use the chart to determine each standard deduction.
- c) Kandice also has a payroll savings plan deduction of \$20/week. What was her net income for last week?
- 5. Vee Jay works 40 hours a week. His net income is \$344.12. His deductions total \$105.88. What is his hourly rate?



6. Jen is a dentist earning an annual salary of \$135 500. Each month, she pays \$2925 in income tax. What income tax rate is Jen paying?

A wealthy and generous owner of an Internet company offers two options of payment to her new vice president.

- Option 1: a monthly salary of \$50 000 per month paid at the beginning of each month
- Option 2: 1¢ the first day, 2¢ the second day, 4¢ the third day, 8¢ the fourth day, and so on for the rest of the month, paid on the last day of the month.



Assume there are 30 days in the month.

A. How can you calculate the vice president's earnings under Option 2?

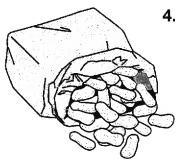
- B. Compare the monthly earnings for the two options.
- C. Which payment option would you take if you were the vice president? Why?

Chapter Review

1. a) Name three different ways employees can be
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- b) Which payment method allows employees to be paid overtime?
- 2. Chantelle works 35 h a week at the zoo earning \$15.25/h. Her supervisor's annual salary is \$33 280. What is the difference in their weekly gross incomes?

3. Parma earns 8% straight commission on her monthly sales of beauty products. Last month she sold \$24 558 in merchandise. Lalit works in an office earning a weekly salary of \$525. Who had the higher gross income for the month?



4. Rhonda sells peanuts at BC Lions football games. She earns \$30 per game plus 15¢ for each bag she sells. She averages about 350 bags sold per game. How much will she earn over the 8 games she works during the season?