NUMERACY Skills Development Booklet

VM 3&4

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- NameVM 1&2 Courseb& Skills Development Booklet
- Personal Development VM 1&2: Coursebook
 & Applied Vocational Booklet
- Work Related Skills VM 1&2: Coursebook
 & Applied Vocational Booklet

VPC Units 1&2: From 2023

- Numeracy VPC 1&2: Coursebook & Skills Development Booklet
- Personal Development VPC 1&2: Coursebook
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CE: VM Units 3&4: From 2024

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Topic	Skills	Devel	opment	1	Advan	ced		Applie	ed
	p.	Done?	Date	p.	Done?	Date	p.	Done?	Date
1 Happy Hol's	1			1			1		
2 My World of Numbers	2			3			3		
3 Addition and Subtraction	4			5			5		
4 Multiplication and Division	6			7			7		
5 Numbers and Words	8			9			9		
6 Order, Order	10			11			11		
7 Bits and Pieces	12			13			13		
8 Shapes and Objects	1 <i>4</i> - 1 <i>5</i>			16			17		
9 Time is Time	18			19			19		
10 It Takes Time	20			21			21		
Mass ing to	1		Q	22		n	22-	n	
12 Massing to	24			25			:5	V	
13 On The Floor	26			26			27		
14 You Are What You Eat	28			20			29,		
15 Dealing Vith information	30	U		31	八	ノ		Y	
16 A Piece of Pie	32			33			33		
17 Working With Graphs	34- 36			37			37		
18 What's the Chance?	38			39			39		
19 Money	40			41			41		
20 Time is Money	42			43			43		
21 Managing Money	44			45			45		
22 Have and Have Not	46			47			47		
23 Occupational Wages	48			49			49		
24 This and That	50			51			51		
25 Numerical Problem Solving	52			53			53		

Skills Development

1. Welcome back from your last ever summer holidays as a secondary student. Did you enjoy them? List 5 things you did over the break using numerical language or concepts.

e.g. I used a fit tracker to record the number of kms I walked, jogged and ran. I registered 182 km walking, 120 km jogging and 22 km running.							

Z Make in moricalles Als rexpiain if thes	
My time asleep	
My timonline	
My times spent outdoors) NOT CODY
Money	
I spent Money	
I earned	

Applied

W	hat	would	d be '	your	ideal	holida	/ at	the	end	ot	Year	12?	Why	yos ۱ ا
---	-----	-------	--------	------	-------	--------	------	-----	-----	----	------	-----	-----	---------

How much would it cost? How will you be able to afford this?

2 My World of Numbers

Skills Development

1. What numerical skills have you developed over the last 12 months and in which areas do you still need to improve?

I got much better at							
and I now find it easier to understand							
Through work-related activities I am now able to							
as well as							
However, I still need to improve							
and I just can't seem to understand							
A numerical skill I plan to develop is							

2 Brieff, Joseph 5 run (1997) related tasks that you can be be equipped to do well and for which you de were post quality luto mes. There are your panelical compenses.

i.	Do not copy
ii.	
iii.	
iv.	
V.	

- 1. Complete these numerical calculations related to you. Add 3 more.
- 2. You also did this task last year. Record any changes and briefly outline why these changes occurred.

1. My height in cm is:	11. Number of mobiles I have owned is:
2. My weight in kg is:	12. Amount of income I have earned this month is:
3. My age in days is:	13. Number of Facebook friends I have is:
4. People in my extended family is:	14. Number of movies I watch in a month is:
5. Number of dwellings I have lived in is:	15. Number of people in my contacts list is:
6. Average hours I sleep per week is:	16. Number of days of school I have left is:
7. Average kms I walk per week is:	17. Weekly hours of paid work I'd like to do:

Proposed daily in front of screens in:

Leader of iving hours I have a compared is:

18 Sample

10. Amount I need to save for my first car is:

1. Mak notice at the based on the following cities you die the week. Add of your own.

2. Make comparisons based on your likely activities in a year from nov

Activity	This week	In a year's time.
My time asleep.		
My time online.		
My time outdoors.		
Money I spent.		
Money I earned.		

3 Addition and Subtraction

Skills Development

Complete these calculations. When finished, check your answers using a calculator.

a.	44 + 15 - 15 =	b.	54 + 64 - 45 =	C.	11 + 14 + 45 - 12 =
d.	84 + 145 - 54 =	e.	54 - 44 + 154 =	f.	46 + 45 <u>- 44</u>
g.	165 + 86 - 16 - 24 =	h.	10 + 40 + 60 - 190 - 10 =	i.	150 - 145 <u>+ 60</u>

Preview Sample:

m. 114 DO NOT COPY

Applie

Complete these calculations. When finished, check your answers using a calculator.

a. 77 - 79 - 2 - 6 + 16 - 25 =	b. 2000 - 330 - 550 - 900 + 770 =	c. 2.5 - 1.5 + 7.5 - 2.5 =
d. 250 people arrive at the festival. 20 leave in hour 1, 35 in hour 2 & 80 in hour 3. 17 more arrive for hour 2 and 43 for hour 3. How many people there now?	e. Sadie has made 50 cupcakes for the party. Inkz eats 10, Lola 5, Turlough 5 and Maisie 5. All take home 4. How many cupcakes left?	f. Bo is making vegan burgers. Each 10 requires 1.5kg of 'mince'. After starting with 8kg, how much is left after making 50?

Preview Sample:

a. You start out with 300. You earn \$500 lest week and sprind \$75 You can \$750 the week after and spend \$800. You carn \$500 the week after and spend \$625. You get no shifts in the final week but spend \$150. What amount do you have left?

- b. What will you do if you stop getting any shifts to earn your income? Why?
- c. How can a budget help you keep track of your ongoing personal income and spending?
- d. What digital tools and apps can help you with personal budgeting? Do they work?

4 Multiplication and Division

Skills Development

Complete these calculations. When finished, check your answers using a calculator.

a. 18 x 10 =	b. 80 x 8 =	c. 6 x 8 x 4 x 9 =
d. 418 x 3 =	e. 80 x 40 x 3 =	f. 80 x 40 x 30 =
g. 18 x 18 x 11 =	h. 100 x 40 x 14 x 2 =	i. 90 x (15 x 15) =

Préviewsample:

m. 13/3=	note C	OD 0. 800 / 20 =
p. 57/3/8=	q. 80/5/2 =	r. 9,000 / 20 / 10 =
s. 1,000 divided by 10	t. 1,000 divided by 20	u. 6,400 divided by 64
v. 80 divided by eighty	w. One million how many fives	x. 10 into 200

Complete these calculations. When finished, check your answers using a calculator.

a. 24 / 6 x 40 =	b. 8 * 8 x 7 ÷ 4 =	c. 64 * 10 ÷ 4 ÷ 4 =
d. 15 x 16 x 11 =	e. 27 / 3 times 10 =	f. (10 * 50) ÷ (50 * 4) =
g. 70 ÷ 7 x 11 x 45 =	h. 18 * 17 ÷ (2 x 100) =	i. 70 * (15 x 20) * 5 =
j. 2/4 x 1/2 =	k. 6/4 x 2/3 =	I. 7/4 x 3/8 =

Preview Sample 1. 100 people pay gym fees 3. A cat runs up and down

day, 5 times a week.
Total km in 3 months?

n. 100 people pay gym fees of \$25/month. They do this for a year. Total?

6. A cat Tuns up and down 18 stairs 50 tin es a day. How many stairs in a week?

Do not copy

Applied

Investigation: Digital drains

As you know, digital subscriptions can quickly add up and consume a large portion of your weekly income. And many 'hide' forgotten in the background, taking a little chunk out of your bank account every week or month.

- a. What digital subscriptions do you have? What about your family?
- b. Have you ditched any in the last year, or taken up any new services?
- c. Estimate how much you, and/or your family, spend on digital subscriptions.
- d. Research and calculate the actual amounts. Work out the annual expenses, monthly expenses, the weekly expenses and the daily expenses.
- e. Do you need all these services and this much data? Why/why not?
- f. Are there subscriptions that are no longer needed? Explain
- g. Is there any duplication of services that might be able to be combined? Explain.
- h. Can you switch or make changes to save money and/or improve service?

5 Numbers and Words

Skills Development

The ability to recognise, speak and write numbers in words is a vital task in personal (helping others), social (planning activities) and work-related situations (dealing with orders and payments). Write the following numbers in words.

	1 , ,	<u> </u>
	Number	Words
1.	2,500	
2.	383.7	
3.	54,300	
4.	-67	
5.	2,644	
6.	22,225	
7.	20K	
8.	2,000,000	
9	5 000 000 000	ew Sampl
11.	\$99.60	SVV Garripi
12.	4.5km	4
13.	\$2,278.67	not copy
14. 15.	\$2.43m	
16.	02/05/2024	
1 <i>7</i> .	45° ENW	
18.	22:34am	
19.	0.565	
20.	38.5mg	
21.	17m and 45cm	
22.	6 hours and 35 min	
23.	2,000 kg	
24.	37.4°	
25.	-\$1.5m	

Complete these calculations. When finished, check your answers using a calculator.

a. Sam did fifty sit-ups every day in March.	b. Sami ate a Mars Bar at lunchtime every day for the school year.	c. Van skates twenty minutes each way to and from school. On VET days Van has to skate 33 per cent more.
d. Brawn bought twelve	e. Jinx ordered three and a	f. Minx reduced his daily
Whoppers for a party.	quarter dozen pies and thirty	18,000 thousand kilojoule
Total cost in \$?	pasties for a party. Total?	intake by a third.

Lists p mental achie em ints but ave achie ed i a norting or hi bby actity
e.g. My most goals kicked in footy was when I kicked 11.3 in 2024.

2. But numbers on their own don't always mean too much. You need to add some more information to provide context. Consider these 2 examples.

I.g. 1 My most toals kill each footy was when I down d 12.5 in 2 24.
Ingainst mu five-lear old sister in the backyard.)
L.g. 2 e.g. My Highest goals licked in footy was when I kicked 115 in 2024
(against Rainbow in the grannie when playing in the 2nds.)

Add extra information to provide the context why each of yours was an achievement.

6 Order, Order

Skills Development

Complete these calculations. When finished, check your answers using a calculator.

a. 9 + 3 x 7 + 28 =	b. 8 * 9 + 9 x 5 =	c. 20 + 20 x 20 / 6 =
d. 230 * 20 - 60 =	e. 86 - 30 * 26 - 36 =	f. 6 x 26 + 30 * 9 =
g. 260 / 4 + 36 + 90 =	h. 260 x 4 + 36 + 90 =	i. 260 + 4 + 36 x 90 =

23-27V5 x 8CV 28 + 26 + 28 + 36 + 319 x 6 + 3 p. $260 / 6 + (9 \times 33) \times 20 = q$. $360 \div 30 + (7 \times 20) \times 26 = r$. 660 - 454 + (27 * 7) - 96 = qs. $2/3 \times 5/6 - 3/6 \times 3 =$ t. $2.6 \times 8.6 - 5.36 \times 3 =$ u. $8,000 \div 3.6 \times 3/2 =$

Calculate the answers for each of these situations using the correct order of operations.

- a. You have 8 groups of 5 trainees, you add 10 more and then split them into 5 groups. How many per group?
- b. You earn \$65 a day for a week, but spend \$300. You then earn another \$95 for 3 days running.

 How much do you have?
- c. A customer buys 16 shirts at \$50 each and 8 ties at \$12.50 each. He wants to pay in 4 equal instalments.

- d. 50 fish weigh 25kg in total. You take out the 5 biggest which removes 7kg. What is the average weight of those left?
- e. Each wedding dress requires 2.5m of cloth + 1/2 metre for hems and seams. How many metres for 4 outfits?
- f. You have 1,000 Skittles for 13 people at the party. But an extra 2 people turn up. How many for each?

Preview Sample:

Applied O NOT CODY

Applying the correct order of operations is very important when dealing with francial transactions involving multiples of different amounts.

- a. If you work for 26 weeks doing 38 hours a week at \$20 per hour, and 26 weeks doing 38 hours at \$25, how much would you earn? Estimate the amount:
- b. Use order of operations to calculate the amount.
- c. So if you are working next year how much might you earn for the entire year? Use order of operations to calculate this likely amount.
- d. If you buy 2 sausage rolls at \$5 and 2 soft drinks at \$4 over the course of each working day how much will you spend:
 - i. per day?

- ii. per work week?
- iii. per year?

e. How can you cut your own 'costs' of working?

Skills Development

Complete these calculations. When finished, check your answers using a calculator.

Complete these calculations. V	vnen πnisned, check your ansv	vers using a calculator.
a. Express as a fraction: 0.125 =	b. Express as a fraction: 0.25 + 0.65 =	c. Express as a fraction: 0.70 - 0.25 + 0.05 =
d. Express as a percentage: 0.575 =	e. Express as a percentage: 0.275 + 0.628 =	f. Express as a percentage: 0.083 - 0.22 + 0.559 =
g. Express as a decimal: 7 and 5/8 =	h. Express as a decimal: 8/3 x 1/6 =	i. Express as a decimal: 5/10 - 2/5 + 1/4 x 1/2 =
j. Calculate percentage: 25% of \$875 =	k. Calculate percentage: 17.5% of \$15,000 =	I. Calculate percentage: 42.5% of \$180,000 =
m. Cylcrate and show the decimal and percentage: 3/9 + 3/18 + 1/4 =	n. Calculate and here as decimal and percentage: 7/11 + 18/22 - 3/4 =	calculate include valua decimal and percentage: 0.59 + 5/8 - 0.33 =
p. Calculate amounts: Discount of 12.5% on 6 purchases of \$50.	q. Calculate amounts: Discount of 5% on 20 purchases of \$99.95.	r. Cal place amounts: Discourt of 40% on 1,000 purchases of \$300.
s. Calculate amounts: Penalty fee of 20% on \$350.	t. Calculate amounts: Late fee of 7.5% on \$15,000.	u. Calculate amounts: Penalty rate on pay of 25% for 4 hours at \$22, and 50% for a further 2.5 hours.
v. 7.5 + 50%	w. 1/4 x 50% =	x. 50 x 1/4 =

Calculate the following based on percentages, decimals and fractions.

	a. 1/2 + 1/4 =	b. 1/4 + 2/8 =	c. 1/2 + 1/3 =	d. 1/8 + 1/4 + 1/8 =
	e. 1/2 + 0.65 =	f. 0.25 + 1/2 =	g. 0.1 + 0.35 + 2/3 =	h. 0.6 + 1/8 - 0.1 =
İ	i. 2/3 x 1/3 =	j. 4/9 x 9/4 =	k. 3/4 ÷ 1/2	l. 7/2 ÷ 2

Previous Sandon Established Sandon Established Establi

Applied

- a. Micki loves Smarties. She buys a bulk lot online, counts out 20, and will eat these evenly over the next 30 days. What fraction, decimal and percentage will she eat per day? How many different flavours is she likely to eat? How much might these cost?
- b. Murphy loves homemade chips. He buys 5kg of spuds, peels them and cuts them into thick chips. He has 7 mates coming over in an hour and wants to share these evenly. In your work folios calculate the fraction, decimal and % to be shared between them; and the weight. Estimate the total cost per person.
 - How many chips do you estimate this will be? How many batches will he have to fry up to cook 5kg? How long might this take? How much oil will he use up? Estimate the cost per person.

8 Shapes and Objects

Skills Development

1. Draw these common shapes. Add 3 more.

a. Square	b. Triangle	c. Circle
d. Rectangle	e. Oval	f. Diamond
g. Ellipse	h. Kite	i. Rhombus

Preview Sample: Do not copy m. Pentagram q. Parallelogram r. Crescent s. t. u.

Skills Development

s.

2. Turn each of those shapes into 3D objects. What are these objects called?

a.	b.	C.
d.	e.	f.
g.	h.	i.

Preview Sample: Do not copy P. q. r.

u.

t.

8 Shapes and Objects

Advanced

Describe the type of transformation that has been applied to the original objects.



Image: yusufdemirci/Depositphotos.com

Applied

a. Draw each of these terms, and describe an example of a personal or work-related situation whereby you might need to understand and apply these concepts.

parallel perpendicular adjacent horizontal vertical syr metical asymmetrical	W,	S	7 M		
adjacent horizontal vertical syr met ca	V	Sá	7 M		-
horizontal vertical syr met ca	W,	Sá	a m		
vertical Syr met ca	W,	Sá	2 M		
Syretica VIE	W,	Sa	a m		_
	W,	Sa	3 M		
	VV		711	חח	
b. Why are digital influencers into				Jy	
c. Why are 'objects in the mirror	closer than the	ey appear'?			

9 Time is Time

Skills Development

Calculate how much **time has elapsed** for the following time spans. Make sure that you show appropriate workings out.

a.	7:30am to 11:30am	b.	4:45am to 11:45am	C.	5:30pm to 10:15pm
d.	6:30pm to 4:30am	e.	5:30am to 4:30pm	f.	11:45am to 2:30am
g.	7:15am to 2:25pm	h.	9:15pm to 2:30am	i.	9:30pm to 8.28am

Preview Sample:

m.	02:00 to 15:00	n. 06:07 to 18:47	09 03 to 13 30
p.	50 minutes in seconds	q. 2 fortnights in days	r. 5 and a half hours in minutes
S.	2 half days in hours	t. 9 days & 3 half days in hours	u. 5 weeks in hours

Calculate the total time (duration) for the following situations.

- a. Shop is open 7 days a week: for 11 hours a day weekdays, and 8 hours daily on weekends. Total open hours?
- b. Journey to Sydney starts 05:30; arrival at 20:00. Actual travel time was 10.5 hours. Total time and how much time in breaks?

c. 8 workers rostered on from 07:45 to 17:15 with a break of 1 hour each. What is the total time worked?

d. You work Mon 6 hours, Tues 8 1/2 hrs, Wed 8hrs 15 mins, Thurs 12 hours straight, and Friday from 7-11am and then from 1-6.45pm. How many hours worked and what % of a full week was spent working?

Preview Sample:

Applied O not CODV

- a. Assume you are working a full-time week in your preferred job next year. What is likely to be your regular hours of work? Where will you be working?
- b. Calculate the total time you will spend on your workday in this job. Include getting ready for work, travelling, hours worked and breaks.

c. Now do the same based on being a 5-day part-timer working 4-hour shifts with no breaks. Where might you be working? Which do you prefer and why?

Skills Development

- 1. When we travel places it takes us time, and costs money. Compare the following situations based on public transport travel, versus personal travel methods.
- 2. Explain which option you would take and why?

Situation	Time and cost by public transport	Time and cost: Personal // & method	Which option for you and why?
From your home to school.			
From your home to TAFE next year.			
From your home to your workplace next year.			
From your home to the doctors.	/ίωνν	Sa	mnl
From your city, town to your airport.		Sa	пр
From your home to you nearest ban br	o no	ot cc	py
From your home to your nearest KFC.			
From your home to your besties place			
From your home to the MCG.			
From your home to The Opera House.			
From your city/ town to Uluru.			

Estimate how much time it would take to deal with these situations. Do some research and see how accurate your estimates were. Report back to the class.

- a. Make and serve 3 cappuccinos, 2 lattes and a soy decaf to a group of waiting customers.
- b. Deliver 4 delivery meals to different friends who all order at the same time on your first day of work.
- c. Assemble and cook 8 large pizzas (4 different varieties) for a customer order.
- d. Organise your entire VCE cohort to line up by age from oldest to youngest.

e. Take lunch pre-orders from 20 teachers

f wash dry (if needed iron) and fold your york uniform put is a time need.

Applied On Ot CODY

As you know, a normal full-time working day will require a greater time commentation a normal day at school. Create a timeline to show your school day now. Do this for when you are working full-time in the future. Analyse the difference and suggest problems you might have to overcome.

11 Using My Time

Skills Development

Now that you're in Year 12, what do you do with your time? Are you using it wisely?

1. Complete the timesheet on p.23 based on a normal school-term week.

meals

- 2. Note down the times and duration of any activities you do during the week including:
 - school sport sleeping socialising study ☐ structured activities ☐ music and any other relevant activities. ☐ family/home □ TV homework duties □ travel gaming
 - work

Advanced

3. Calculate the amount of leisure time you have per week this year, and then make estimates for a month and for the entire year. How has this changed compared to when vou were in Grade 6?

online

Preview Sample: o not copy

Applied

- 4. Prepare a short written summary report, and deliver a brief oral presentation to the class, on what you do in your spare time.
- 5. Discuss what you might have to give up next year to balance work, study and your other (and new) responsibilities.

NI						<u>, </u>			ge to A	<u> </u>				
Nan		on	T	ue	W	 ′ed		s:	F	ri	S	at	S	un
	/ Task	/ Time	 Task	/ Time	 Task	/ Time	 Task	/ Time	/ Task	/ Time	 Task	/ Time	 Task	/ Time
am 12.01-	done?	spent?	done?	spent?	done?	spent?	done?	spent?	done?	spent?	done?	spent?	done?	spent
1.00														
5.00														
5.01- 6.00														
6.01- 7.00														
7.01- 8.00														
8.01- 9.00														
9.01- 10.00														
10.01- 11.00														
11 /- 1 00		7/	/		7/	Λ				7	n			
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6.01- 7.00														
7.01- 8.00														
8.01- 9.00														
9.01- 10.00														
10.01- 11.00														
11.01- 12.00														
Daily														
time Signe												duration		

12 Measuring Up

Skills Development

Calculate the following measurements in the correct units using the information provided. Make sure that you show appropriate workings out.

a. Perimeter of a square:	b. Perimeter of a rectangle:	c. Perimeter of a rectangle:
8cm	18cm by 18cm	16cm x 40mm
d. Perimeter of a rectangle:	e. Circumference of circle:	f. Circumference of circle:
2m by 180cm	Diameter = 28cm	Radius = 18cm
g. Area of a square:	h. Area of a square:	i. Area of a rectangle:
8cm²	280mm²	0.35m x 20cm

m. Trea of a rectangle: .4m x 18(1)mm	n. Area off-circle: Damet r : 0.45m	Radius 210m
p. Volume of a square:	q. Volume of a rectangle:	r. Volume of a rectangle:
8cm ³	15cm x 7cm x 26cm	1m x 0.78m x 65cm
s. How many ml in 25 and 1/2 litres?	t. How many ml in 4 tablespoons?	u. How many litres in 8,800ml + 2.5l?
v. How many grams in 4.78	w. How many kgs	x. How many kgs in
kg?	in 25,750 grams?	7.6 tonne?

Calculate the following measurements in the correct units using the information provided. Make sure that you show appropriate workings out.

d. Area of a circle: Radius = 10cm e. Area of a circle: Diameter = 100cm f. Area of a circle: Radius = 3.5m g. Total perimeter? (Image is to scale) h. Total perimeter? Each 'line' = 8.5m i. Total area? (Image is to scale)	a. Circumference of a circle: Radius = 10cm	b. Circumference of circle: Diameter = 100cm	c. Circumference of circle: Radius = 3.5m

Applied

- Choose any coloation in which you are it terested. What wes of m assuments do workers need to do for their job? What units and conversions are in olved?
- 2. What analogue tools and methods do they use? What digital tools and methods do they use?

Measurement	Units/Conversions	Analogue	Digital

13 On The Floor

Skills Development

Identify objects and fittings from this 2D diagram of a floorplan.

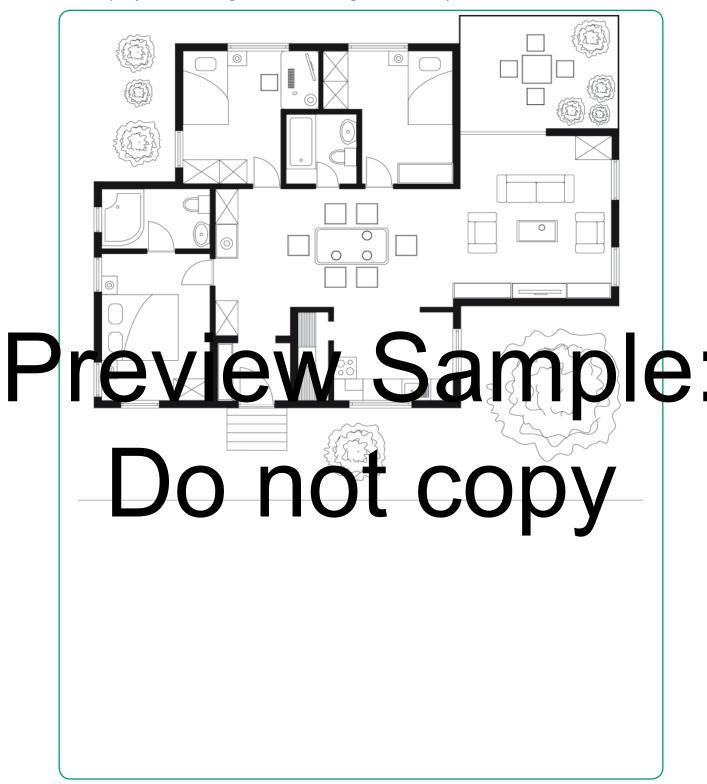


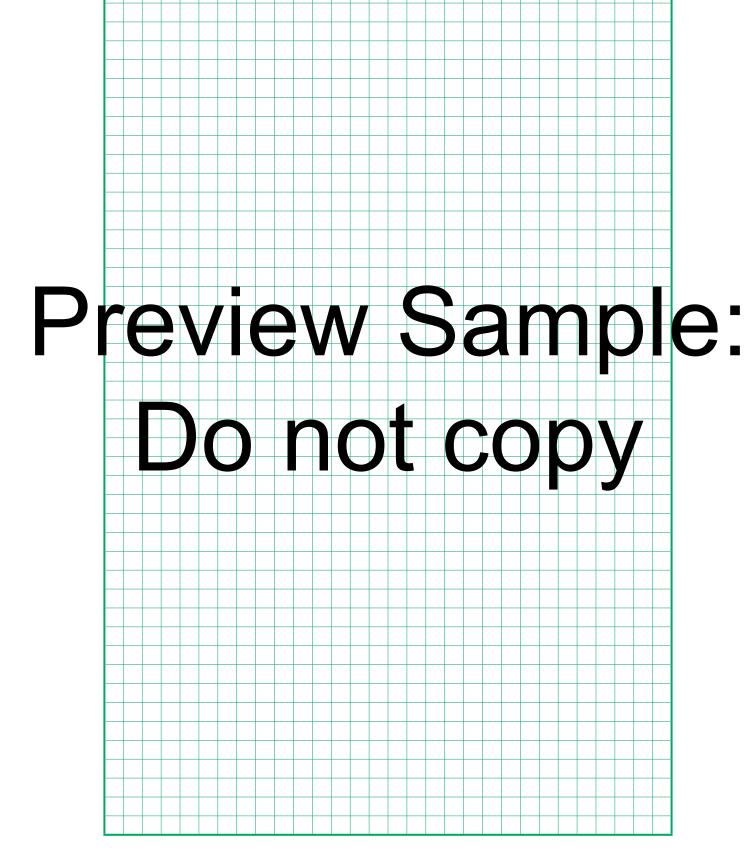
Image: delpieroo/Depositphotos.com

Advanced

Estimate and add the likely measurements of the block, the house, the rooms and the objects represented in the floorplan.

Applied

Sketch a floorplan of the house you'll be living in at aged 30. Make copies for a multi-story dwelling. Use correct symbols to make the floorplan more readable.



14 You Are What You Eat

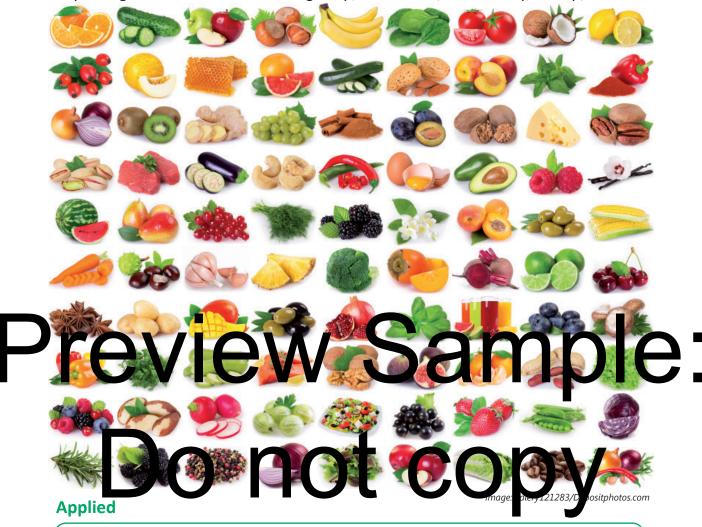
Skills Development

You are you know! Draw equivalencies based on the following for a year's consumption.

- 1. The amount of candy you eat in equivalent bags of sugar.
- 2. The amount of soft drink you consume in equivalent litre bottles.
- 3. The amount of hot chips in equivalent 1kg bags of potatoes and litres of oil.
- 4. The amount of hamburgers in the proportion of a cow.
- 5. The amount of breads in equivalent 1kg bags of flour.
- 6. The amount of fruit in equivalent wheelbarrows.

Preview Sample: Do not copy

In your work folios, name the fruit and vegetables shown in this image. Rate them as part of your regular nutritional intake as 'regularly', 'sometimes', 'occasionally,' 'rarely', 'never'.



When you are a new worker, it is likely that you will not be paid all that much. And if you are studying at TAFE, then you will also be short on cash. And your work/study days might be much longer than your current school hours. So you might get very hungry. A good way to save money is to bring your own lunch.

- 1. Estimate the cost of your current lunch (and other food and drinks during the school day) per day, per week and per (school) year. Who pays for these? Why?
- 2. Reflect on your most likely situation next year. Estimate the cost of your lunch (and other food and drinks during the work/study day) per day, per week and per year. Who will pay for these? How could you save money on your cost of food and drink?

15 Dealing With Information

Skills Development

A vital vocational numeracy skill is the ability to quickly identify and accurately organise data and numerical information. These skills are often assessed by pre-employment tests as part of the job application process.

 Place an 'S' for same, or a 'D', for
different for each of the following number
pairs. Time = 5 mins.

a.	8647	8647	
b.	4576	4567	
c.	73476	73467	
d.	47.867	47.867	
e.	7248847	7248874	
f.	\$47.87	\$471.87	
g.	\$732.76	\$7322.76	

≢778764

h. 4778674

k.	8.066 billion	9.066 billion	

l.	77.	77.867 x 4	
			_

m.	11-96+	1+ 96 + 17	\mathcal{H}
n.	060 740 1	84770	

0.	77 - 87	78 - 87	

n	467476	476476	
ρ.	40/4/0	4/04/0	

q.	10 @\$0.76	10 @\$0.67	
	<u> </u>	<u> </u>	

•	<u> </u>	<u> </u>	
r.	2.502	2.502	

s.	0.077mg	0.077kg	
t.	14,006,848	14006848	

2. Organise these 40 numbers in the correct order from lowest to highest.

	Time = 15 mins				
198	1989.2	16516	5215		
12152	1256	596	1365		
1232165	65985	897	84589		
454	6565	98	9874669		
564654	148	98498	41696		
0.8	79	4984	7256		
4894	651	984	236		
556	684	6321	7859		
65	9874	-98	123 <u>0</u> 36		

\$\frac{123456}{2}\$ \text{P8798} \text{P98798} \text{P98.139}

3.	17	31
	CO	n ./
4.	18	32

6	20	34

7	21	35

8.	 22	36

10	24	38
----	----	----

13._____ 27.____

14._____ 28.____

3. Circle which of these calculations is higher, or lower, or circle both if the same.

Time = 30 mins.

_					
	a. 6 x 4	4 x 6	n. 10 x 50	60 x 9	
	b. 7 x 9	50 + 3	o. 1/2 + 1	1.5 - 0.1	
	c. 25 - 17	9 - 2	p. 0.7 * 5	4 - 0.4	
	d. 6 x 4	12 x 2	q. 50 x 1/2	1/4 x 160	
	e. 11 x 7	13 x 6	r. 12 x 12	11 x 13	
	f. 19 - 10	5 + 5	s. \$7 x 5	\$30 + \$7.50	
	g. 40/10	20 -17	t. 1m / 10	10,000 x 10	
	h. 100 + 50	75 + 85	u. 20 x 1.5	40 x 1.25	
	i. 11 x 12	13 x 10	v. 10% of 450	20% of 250	
	j. 5 x 25	100 + 25	w. 25% of \$80	4 x \$19.99	

Preside the state of the state

Do not copy

Testing time

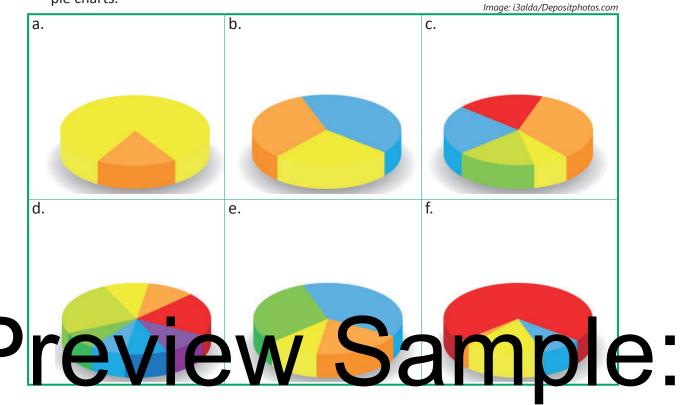
Find out pre-employment tests that are used for occupations you are interested in. What numerical skills are these testing? Do some sample tests and see how you go.

Occupation	Test/weblink	What are they testing?	How do I go?

16 A Piece of Pie

Skills Development

1. Estimate the percentage (%) represented by each piece (or portion) of the pie for these pie charts.



2. Answer the following questions by identifying the most likely pie chart, together with a brief explanation of the reason for your choice.

i. Which pie mar 200 ld be showing the less onse to a yes/n surv /? I that night be the question?	in Which hie to art has as largest portion of about 2/3? V nat might it 4 surv v questions be?	large equal fieds and 6 shall equal pieces, and 6 shall equal pieces, estimate these percentages.
iv. Which pie chart might represent a 'good', 'average', 'poor' rating? Estimate the percentages and suggest a context.	v. Which pie chart might represent responses of a small 'high', 2 equal 'moderate' and 'fair', and a large 'poor'? What might be the question?	vi. Which pie chart has 5 portions? Estimate the percentages. How might this represent the post-Year 12 destinations of a VM class?

Construct a properly-labelled pie chart based on this information.

VM students' preferred main postschool outcome: Year 12 2024 Work f-t 13 Work p-t/cas 7 Gap year 2 TAFE f-t 8 TAFE p-t 2 Other training 6 Other 2 **Total** 40

Preview Sample:

Applied

- a. Survey the class to find our your classmate it preference for their preferred in an post-school outcome next year.
- b. Create a table to collate the results.
- c. Construct a properly-labelled pie chart based on this information.
- d. For those who indicated 'working' as their preference, re-classify these results by 'apprenticeships', 'traineeships', 'other full-time' and 'other part-time/casual'.
- e. Create a table to collate the results.
- f. Construct a properly-labelled pie chart based on this information.
- g. Survey the class to find out your classmates' preferred holiday destination to celebrate the end of year 12.
- h. Create a table to collate the results.
- i. Construct a properly-labelled pie chart based on this information.
- j. Survey the teachers to find out where they holidayed at the end of their Year 12.
- k. Create a table to collate the results.
- I. Construct a properly-labelled pie chart based on this information.
- m. Comment on the similarities and differences between these two cohorts.
- n. What about you? Where do you fit into these pie charts? And why?

17 Working With Graphs

Skills Development

Bar graphs are a useful way of comparing different data sets using visual representation. They are often used for bills and when reporting business and financial results.

The amount should be plotted on the vertical or (y) axis and the time period and data sets plotted on the horizontal or (x) axis.

Krang's Retro Toys Total Sales and Net Profit: 2020-2024				
Year	Total sales	Net profit		
2020	\$73,000	\$32,000		
2021	\$114,000	\$43,500		
2022	\$117,000	\$74,000		
2023	\$95,000	\$67,000		
2024	\$113,000			

- 1. Construct a properly-labelled bar graph for Krang's Retro Toys that shows both total sales and total profit over the 5 years.
- 2. How can total sales go down, yet profit still rise? Explain carefully.
- 3. Based on the margins of 2022, and 2023, make an estimate of the profit for 2024. Explain your answer.

Preview Sample: Do not copy

Skills Development

Line graphs are a useful way to show time series data. They can include more than one graph on a set of axes. But you might have issues with this if the scales are mismatched.

The amounts should be plotted on the vertical or (y) axis and the time period plotted on the horizontal or (x) axis.

- 1. Construct a properly-labelled line graph for Krang's Retro Toys that shows both unit sales and cost of sales over the 5 years. You might need to use different scales.
- 2. Describe the trend in the data as shown by the graphs.
- 3. What has happened to Krang's total unit sales? But what has happened to his cost of sales? What does this suggest?
- 4. Is Krang's business heading in the right direction? What do you think?

Krang's Retro Toys Unit Sales and COGS: 2020-2024			
Year	Unit sales	Cost of sales	
2020	2,150	\$26,000	
2021	1,950	\$58,000	
2022	1,200	\$27,000	
2023	1,100	\$14,500	
2024	950	\$18,850	

Preview Sample: Do not copy

17 Working With Graphs

Skills Development

Pie charts show relative proportions of a whole. Each segment of the pie represents a %. You can also create some great 3D effects with pie charts

- 1. Construct properly-labelled pie charts for Krang's Retro Toys that show the proportional sales in each category for these 2 years. You'll need to calculate the relative % for each toy category.
- 2. Comment on the different patterns between the 2 years. What does this suggest? What has changed?

Krang's Retro Toys Item sales: 2020 & 2024					
Year 2020 % 2024 %					
TMNT	211		94		
Lego	414		11		
WWE	236		94		
Star Wars	376		92		
MOTU	226		124		
Bionicle	75		101		
Smurfs	115		145		
Ponies	194		53		
Other	303		236		
Total	2,150	100	950	100	

Preview Sample: Do not copy

- 1. Using all the data, summarise the performance of Krang's Retro Toys over 2020-2024.
- 2. Give any advice or recommendations.
- 3. What other data and information would be useful to know?

Preview Sample: Do not copy

Applied

Pie charts are a good way to visually represent the size of relative proportions.

- 1. Draw a properly-labelled pie chart that shows the relative proportion of the manufacturer of the cars driven by teachers at your school. Record your data in your work folios. You might use checksheets to help you.
- 2. Draw another properly-labelled pie chart that shows the proportional age of the car based on when that model was released.
- 3. Draw another that shows the proportional colour of each car.
- 4. Go online and estimate the average current value of each car. Take into account age, and condition. Perhaps you might need to find out kms travelled.
- 5. Also research (as much as you can) how much each car might have cost to buy new when first released. Which type of cars hold their value better?
- 6. Apply the concepts of mean, median and mode to calculate appropriate averages.
- 7. Develop a brief summary report that 'profiles' the cars (or other vehicles) driven by the teachers at your school.

18 What's the Chance?

Skills Development

Complete these problems related to chance.

b. 2 in 4 chance in percentage?	c. 1 in 8 chance in percentage?
e. 7 in 100 chance in percentage?	f. 7 in 8 chance in percentage?
h. 12.5%: What are the odds?	i. 50%: What are the odds?
h. 99%: What are the odds?	I. 0%: What are the odd P
n. Odds of 2 tails in a row?	o. Odds of head then tail?
q. Odds of a spade card from a deck?	r. Odds of an Ace card from a deck?
t. Odds of a red Queen card from a deck?	u. Odds of an Ace from a deck compared to a 2 card.
w. Which is a better chance? 3 in 8 or 1 in 3	x. Which is a better chance? a third or 1 in 3
	e. 7 in 100 chance in percentage? h. 12.5%: What are the odds? n. Odds of 2 tails in a row? q. Odds of a spade card from a deck? t. Odds of a red Queen card from a deck? w. Which is a better chance?

Complete these problems related to probability.

a. Spinning 4 heads in a row.	b. Spinning 6 tails in a row.	c. Spinning a head and then 2 tails.
d. Rolling a 6 then a 1.	e. Rolling a pair of 6's.	f. Rolling 5 6's in Yahtzee?
g. Drawing 2 cards from a deck and getting 2 Kings.	h. Drawing 4 cards from a deck and getting 4 sevens.	i. Drawing 5 cards from a deck and getting 5 Aces.

review Sampl

Applied

Often yout managing risk. But you sho

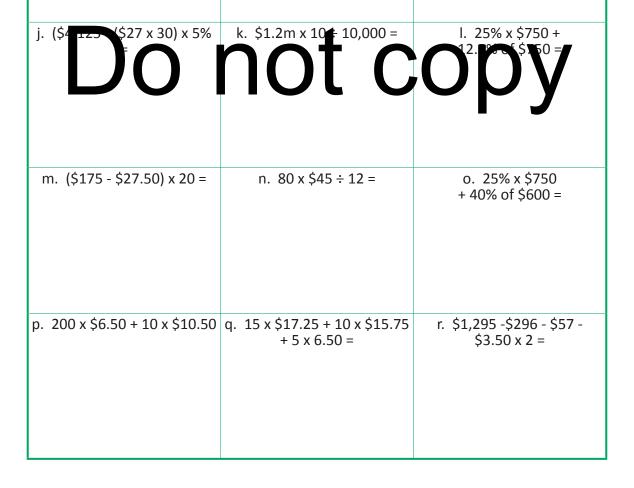
- last month, and your bank deposit is only giving you 3% interest, w invest your money? Why is that?
- b. If the likelihood of winning Powerball is about 77 million to 1, then how does anyone ever win? Would you ever buy a ticket?
- c. Why are people afraid of flying when driving or being a passenger are so much riskier? Do some research and compare the risks; and the ways to reduce risks.

Skills Development

Complete these calculations. When finished, check your answers using a calculator.

a. \$22.50 + \$24.99 =	b. \$11.50 x 80 =	c. \$7.45 x 3.5 - 10% =
d. \$4m - \$2m + \$7,500 =	e. \$15.75 x 25 + 10% =	f. \$140 + \$99.99 - 25% =
g. 2.50 x \$2.25 x (2 x 1.5) =	h. 11 ² x \$5.50 =	i. \$7,050 - \$2,025 x 2.5 =

Preview Sample:



Complete these calculations. When finished, check your answers using a calculator.

a. If you spend \$9.50 on lunch and \$5.50 on coffee every day, then how much per week, per month and per year? b. If you earn \$120/week for 40 weeks and save 40%; and then \$480/week for 11 weeks and save 75%; total savings? c. A customer orders 24 cans at \$2.50, 50 rolls at \$7.50 and 8kg of Frankfurts at \$9.50/kg. Total price after a discount of 7.5%?

d. After a day selling at the local market, you have 9 x 20s, 13 x 10s, 22 x 5s, 11 x 2s, 17 x 1s and \$8.65 in silver. Total?

e. What change is left from \$500 after 3 purchases of \$11.50, 10 of \$5, 3 of \$70 and 4 of \$19.99? f. If you get paid \$17.50 an hour for 16 hours, plus double time for the next 16 hours, then how much in total?

Preview Sample: Do not copy

Working costs money. Travel, transport, work clothing or uniform, parking, lunch, coffee, tools of the trade, and other expenses depending on the job and the location.

a. If you were working next year, how much would you spend each week on 'working'? How much of your pay might this eat up?

Studying also costs money. Fees, resources, study materials, transport, parking, lunch and other expenses depending on the course and the location.

b. If you are studying next year, how much would you spend each week on this? How are you going to cover these expenses?

20 Time is Money

Skills Development

When you start a job you are usually paid a wage. If you work fewer hours per week than the standard 38-hour week as a part-time or casual employee, you should calculate an equivalent full-time weekly and annual pay rate. This way you can make a comparison on the relative income level associated with this job.

- 1. Calculate both the equivalent weekly and annual wage for each of the following.
- 2. Provide an answer to the question that is posed for each.

Example	Equivalent weekly & annual wage // and answer.
1. You have just started working in a retail shop for \$16 per hour. What type of shop might this be, and what are some possible reasons why you are paid \$16 per hour?	
2. You work another job part-time for 12 hours per week earning \$18 an hour What jell mith this b and why tre you no pard the 'minimum' wage?	ew Sample
3. A freend works 6 hours/ week in this an e jo as you sut is poid \$20 per bur. Why are they paid more, and is it better to work as a part-timer or a casual?	not copy
4. You get offered a contract to do all the work for a short-term project at \$1,600 for the equivalent of 2 full working weeks. What type of project could you do, and how good is this pay?	
5. You get offered \$35/ hour as a temp working for a relative's boss. Your relative earns a salary of \$54,000. What type of job might this be, and who earns more on an equivalent basis?	

Another useful way to calculate the value of your time spent working is to calculate the amount of hours or week's work (in \$), as a percentage of a total you are saving for.

e.g. If saving for a new phone at \$1,500, then 1 hour of work (@\$15) = \$15/\$1,500; which is 1% of the total amount. You will have to work 100 hours to earn that phone!

- 1. Choose your own item/product to add to the table.
- 2. What proportion of each item is earned per hour and for the week?
- 3. How many hours of work will it take to be able to 'afford' the item?

Example	Holiday to Bali \$	Vehicle	\$	\$
a. Brie works	- % of item earned per hour?	- % of item earn	ned per hour?	- % of item earned per hour?
16 hours for the week at \$18/ hour.	- % of item earned per week?	- % of item ear	ned per week?	- % of item earned per week?
b. Staz	- % of item earned per hour?	- % of item ear	ned per hour?	- % of item earned per hour?
works		(
pe eek t 18.50 per hour.	- 16 a literalean editier werk?	% if item eari	week?	- of emetine perview
c. Tren	- 76 fitem earned per hour?	- % of item carr	ned per hour?	- % of item earned per hour?
earns \$400 for his working week of 15 hours.	of iten agrand per week?		ned per eal	% of two evned pt week?
d. Yigh earns	- % of item earned per hour?	- % of item ear	ned per hour?	- % of item earned per hour?
\$1,330 for a standard full-time working week.	- % of item earned per week?	- % of item earı	ned per week?	- % of item earned per week?

Applied

- a. Assume you get your preferred job next year. How much might you earn?
- b. How much might you have earned by the time you are 25?

21 Managing Money

Skills Development

Consider these common expenditure categories that most people experience as part of day-to-day living.

- 1. Classify each according to whether they represent a high proportion of your spending (H), a moderate proportion of your spending (M), a low proportion of your spending (L), or not at all (N). Add and classify other categories that might be relevant to you.
- 2. Estimate amounts for you and set these up as a spreadsheet.
- 3. Next year will be a new challenge, so how are you doing on the expenditure front?

	mortgage or rent/	□ lunch and coffees/
	home insurance/	□ take-away food/
	contents insurance/	□ home delivery food/
	rates/	meals out/
	electricity/gas/	□ haircuts/
	water /	grooming/
	repairs/maintenance/	clothing - personal/
	car loan/interest/	□ clothing - work/
	petrol / =	and footwear/
	i son no	Lunion fees
	-grandtio //	com uti s
	service and funing	
	maintenance/repairs/	□ electricals/
	public transport/	child-care/
	Uler/tax etc. /	Course fees /
	paking/	education tels, books etc/
	fires any charges //	l book
	sporting/club fees/	magazines/
	health insurance/	□ holidays/
	gym memberships/	gifts and presents/
	medical bills/	donations/
	pharmacy /	□ special treats/
	dental/	□ credit card repayments/
	physio & optical/	personal loan repayments /
	vet bills and pet care/	□ credit repayments/
	phone & data /	
	internet/	
	streaming subscriptions	
	music purchases/	
	entertainment/	
	clubs /	
	groceries /	
_		
	toiletries, beauty & health/	

Advanced & Applied

Some of you may now be getting very close to buying your first vehicle. As we all know, the costs of running and maintaining a motor vehicle can be very high.

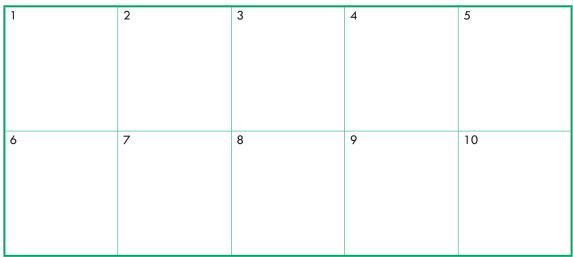
- 1. Identify your most likely preferred first motor vehicle (and price).
- 2. Research and list the costs associated with running and maintaining this motor vehicle.
- 3. Calculate these costs on a weekly, monthly and annual basis.
- 4. Calculate total weekly, monthly and annual costs.
- 5. How many hours per week would you need to work just to cover your vehicle costs?

Price:	Metho	d to pay for this?	
Expense	Weekly \$	Monthly \$	Annual \$
registration			
compulsory insurance			
optional insurance	-		I
interest on loan	Iew	Sar	npi
		4	
D(on (t co	DV
			ı
Totals	/week	/month	/yeaı
Workings:	<u> </u>		

22 Have and Have Not

Skills Development

1. List 10 items that you acquired over the past 12 months and the approximate price of each. With a classmate discuss your list, the cost of the items and who paid for them.



2. List 10 items that you disposed of over the past 12 months and the approximate price of each. With a classmate discuss your list, their costs and who paid for them.

Preview Sample: Do not copy

3. List 10 things you are going to have to spend money on next year as part of your transition into work and/or study. Discuss these, their costs, and who will pay.

1	2	3	4	5
6	7	8	9	10

Advanced

The value of money changes over time. \$100 ten years ago is not the same as today. You could buy much more with that \$100 than you can now. This means that the relative purchasing power (the value) of money has gone down due to inflation.

You can use a retail price index to calculate the relative prices of items from the past and work out how much they would be in today's dollars. The ABS has a price index calculator on its website. Find it and use it to complete the following tasks.

1. Calculate the present value of \$1,000 based on each of these time periods.

2. Research the price of common items for each of these time periods (not houses). Calculate the relative value of the dollars used to purchase that item in today's dollars.

	Value today	Item and price	Value today	Amount	Year
				\$1,000	1948
				\$,1000	1958
				\$1,000	1968
		C - 10		\$1,000	1978
3:		San	ew	\$, 00	1958
_	- -			\$1,000	1998
		1		\$1,000	200
) CO		1,00	201
	J			\$1,000	2016
				\$1,000	2020
					Last year

Applied

So what does this indicate about the prices of goods and services? Do you think it is more expensive to live today or in the past? Answer carefully, as there might be more information you need to consider other than just retail prices.

23 Occupational Wages

Skills Development

It's time to revisit the income amounts of occupations in the world of work.

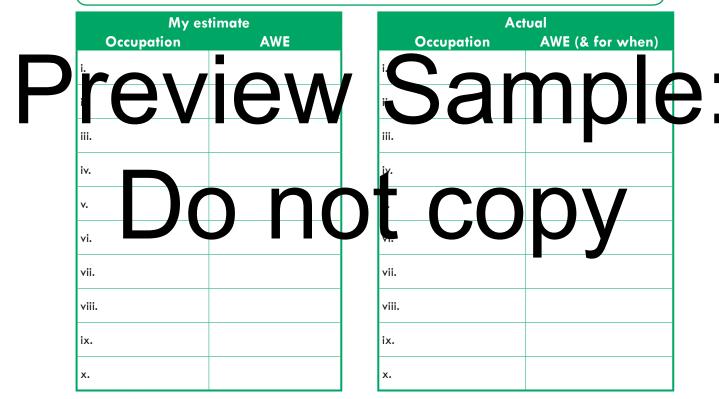
1. List 5 occupations you are interested in. For each one estimate the average weekly income you would expect an adult to earn in this occupation.

i.	
ii.	
iii.	
iv.	
V.	

https://	'labourmar <mark>k</mark> etir	nsights.gov.au Bo	sure to note	ons. Search using: the year of the data you
find, as	this can vary. Fin	nd out 5 other av	erage week y	earnings. unt. Is this what you expec
ST OUTITIE	atio di line	AW	arris tria.	pl ngi an
i.				
ii.		nc	st (copy
iii.			-	$\mathbf{J}\mathbf{U}\mathbf{P}\mathbf{y}$
				1 9
iv.				
٧.				
vi.				
vii.				
viii.				

- 1. Rank the occupations below in order based on their average weekly income (for a full-time worker). Estimate the average weekly earnings for each.
- 2. Go online and find out the current average weekly income rates. Make sure you identify when these statistics were from. Re-rank these.
- 3. How did you go with your rankings? Are there any surprises?

general sales assistant, hairdresser, train and tram driver, retail manager, child-care worker, bar attendant, secondary school teacher, plumber, gardener, police officer



Applied

How much income do you think you will earn in your lifetime? How will you estimate this? In which decade of your life are you likely to earn the most? Why is that?

24 This and That

Skills Development

As you know, formulae represent quantities and amounts (relationships) associated with particular situations. They involve variables represented in words, or symbols or letters.

- 1. Develop formulae to represent the following situations in relation to your own financial circumstances. Add 1 more of your own.
- 2. Use these formulae to make calculations relevant to your own financial circumstances.
- 3. Comment on what the relationships indicate. Are there things you should be changing so as to improve your life?

	Formula and calculation	Comment
Your income sources.		
Your income to	riew S	amp
Your spending to saving ratio.	o not	сору
Your debt to income ratio.		
Saving using compound interest		

Develop 5 algebraic formulae to describe your personal characteristics. This is a bit like a secret numerical code. $\{e.g. My age is 4 times my youngest son. or X = 4(Y).\}$

Characteristic	Formula	Description
Your age		
Your height		
Your income		
Your		
Your		

Applied

a. We naturally use formulae every day, sometimes without even thinking about them. Reflect on the use of these different types of averages and how they might assist or apply to you in personal and work situations.

apply to you in per	onal and work situation	is.			
Howdows much average apply to me	C Persy al lituo	atio Company	am	uc on	e
How does redian average apply to me How does mode average apply to me) no	t	CO	Oy	

All jobs require the development, use and application of formulae to express relationships, ratios and to solve problems. These might be technical, financial or related to varied job tasks such as ratios, and many others.

b.	Identify and describe formulae that apply within an industry. Explain how each is used
	for work tasks you might have to do.

25 Numerical Problem Solving

Skills Development

Throughout VM Numeracy Senior you have developed many numerical skills that can assist you to solve problems. However, it's up to you to take action to deal with these problems both before they occur and when they arise. You must apply what you have learned.

- 1. Outline the numerical skills and actions I will use to deal with each problem.
- 2. How will I assess that I have dealt with the problem effectively?
- 3. And will I have the discipline to follow through with what I am suggesting?

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Advanced & Applied

- a. Numerical skills can help you deal with personal and vocational problems. Consider 4 of these problems (or add your own) and apply numerical skills and tools to help you make personal or vocational improvements.
 - ⇒ I spend too much time online.
 - ⇒ I do not get enough physical activity.
 - ⇒ I need to improve my driving skills and/or hours.
 - ⇒ I do not spend enough time out of class doing my assignments.
 - ⇒ I am constantly running out of money or overspending.
 - ⇒ I cannot get enough work hours.
- b. Express these improvements in numerical statements. e.g. I will reduce screen time by 20%. Show before and after numbers as potential outcomes.
- c. What numerical skills, techniques and tools can you apply to help you manage these problems? How so?

Preview Sample: Do not copy

Problem 3:

Problem 4:

Reflection and Review

Complete this journal to reflect on your development of Numeracy Skills. ⇒ What did I most enjoy during this year as part of my Numeracy studies? ⇒ What major numeracy skills and tools did I develop and apply? How did I use and apply what I learned for my erso al and social activities? ⇒ What might be the most important things for me to focus on next, and why? ⇒ What other information can I share and/or how would I summarise my experiences?

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VCE: Vocational Major

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*Numeracy VM: 3&4	@ \$49.50	@ \$27.50	@ \$385	or @ \$495
*Personal Development VM: 3&4	@ \$49.50	@ \$27.50	@ \$385	or @ \$495
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VCE: Industry and Enterprise

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