## NUMERACY Skills Development Portfolio

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$\Rightarrow$ Personal Development VM 3\&4: Coursebook \& Applied Vocational Booklet
$\Rightarrow$ Work Related Skills VM 3\&4: Coursebook \& Applied Vocational Booklet

## VPC Units 3\&4: From 2024

$\Rightarrow$ Literacy VPC 3\&4: Coursebook \& Applied Vocational Booklet
$\Rightarrow$ Work Related Skills VPC 3\&4: Coursebook \& Applied Vocational Booklet

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| Topic |  | Skills Development |  | Advanced |  |  | Applied |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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## Skills Development

1. Did you enjoy your holidays? What did you do? Using numerical language or concepts, list 5 things you did over the break.
e.g. I travelled to Rosebud with my family. The drive took 1 and $1 / 2$ hours and we stayed for 2 weeks.

## Advanced

2. Being on a break or on holidays norm ple need to spend more money. Use numerical language to descrit 1 s.-


Applied
What would be your ideal holiday. Why?

How much would it cost? Could you ever afford this?

## 2 My World of Numbers

## Skills Development

1. Complete the following passage about your abilities and skills related to numeracy issues. Be prepared to discuss your answers.

I am naturally good at $\qquad$
and I find it easy to understand $\qquad$
and as I have matured I have got better at $\qquad$
as well as $\qquad$ .

However, I'm really bad at $\qquad$
and I just can't seem to get my head around and as I've got older I seem to be getting worse

2. Briefly describe 5 numeracy-related tot the relied upon to do well and for which you deliver good quality c.nss. ese are your numerical competencies.
i.

ii. $\qquad$
$\qquad$
iii. $\qquad$
$\qquad$
iv. $\qquad$
$\qquad$
v. $\qquad$
$\qquad$

## Advanced

Complete these numerical calculations related to you. Add 3 more.


## 3 Addition and Subtraction

## Skills Development

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


## Advanced

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

| a. 88-9-7-6-16-25 = | b. 222-33-55-44-77 = | c. $14-1.5-7-2.5=$ |
| :--- | :---: | :---: |
| d. 200 cars fill a car park. 20 <br> leave in hour 1, 35 in hour 2 <br> and 75 in hour 3. How many <br> cars remaining? | e. Janez has made 100 tarts <br> for the party. Ben eats 12, <br> Lola 16, Cram 24 and Pixi 5. <br> How many tarts left? | f. Gilbertina is making <br> sausage rolls. Each 20 <br> requires 1.5kg of mince. <br> After starting with 10kg of <br> mince how much is left after <br> making 100? |

a. You start out with - $\$ 0$. You earn $\$ 100$ next week and spend $\$ 75$. You earn $\$ 150$ the week after and spend $\$ 200$. You earn $\$ 150$ the week after that and spend $\$ 175$. Finally, you earn nothing in the final week but still spend $\$ 150$. What amount do you have left?
b. What are you going to have to do if you stop earning money? Why?
c. Describe a mathematics tool that can help you keep track of your ongoing personal income and spending.

## 4 Multiplication and Division

## Skills Development

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


## Advanced

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

| a. $14 / 6 \times 40=$ | b. $9 * 9 \times 8 \div 4=$ | c. $64 * 10 \div 4 \div 4=$ |
| :---: | :---: | :---: |
| d. $15 \times 16 \times 11=$ | e. $28 / 4$ times $10=$ | f. $(10 * 50) \div(5 * 4)=$ |
| g. $80 \div 8 \times 71 \times 45=$ | h. $19 * 18 \div(3 \times 100)$ | i. $70 *(15 \times 46) * 14=$ |
| j. $2 / 4 \times 3 / 2=$ | 6/4 | I. $9 / 4 \times 3 / 9=$ |
| m. A person runs 12 km day, 5 times a week. Tot in 4 weeks? | ach pay $y$ do this f ks. Total? | o. A toddler runs up and down 12 stairs 50 times a day. How many stairs in a fortnight? |

## Applied

## Investigation: Digital subscriptions

In the digital age, people have many different digital subscriptions ranging from their internet and phone plans, through to streaming services, games platforms and music downloads.
a. Estimate how much you, and/or your family, spends on digital subscriptions.
b. Research and calculate the actual amounts. Work out the annual expenses, monthly expenses, the weekly expenses and the daily expenses.
c. Do you need all these services and this much data? Why/why not?
d. Are there subscriptions that are no longer needed? Explain
e. Is there any duplication of services that might be able to be combined? Explain.
f. Can you switch or make changes to save money and/or improve service?

## 5 Numbers and Words

## Skills Development

The ability to both 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.

| Number |  | Words |
| :---: | :---: | :---: |
| 1. | 1,400 |  |
| 2. | 272.6 |  |
| 3. | 43,200 |  |
| 4. | -56 |  |
| 5. | 1,533 |  |
| 6. | 11,114 |  |
| 7. | 1K |  |
| 8. | 1,000,000 |  |
| 9. | 1,000,000,000 |  |
| 10. | 1,000,065 |  |
| 11. | \$89.50 |  |
| 12. | 3.4 km |  |
| 13. | \$1,197.56 |  |
| 14. | \$345,500 |  |
| 15. | \$1.32m |  |
| 16. | 01/04/2023 |  |
| 17. | $35^{\circ} \mathrm{NNW}$ |  |
| 18. | 11:23am |  |
| 19. | 0.45 |  |
| 20. | 27.45 mg |  |

## Advanced

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

| a. Sam did fifty pushups <br> every day in February. | b. Frey ate a donut at <br> lunchtime every day for the <br> school year. | c. Ngoc cycles thirty minutes <br> each way to and from <br> school. On VET days Ngoc <br> has to cycle fifty per cent <br> more. |
| :---: | :---: | :---: | :---: |
| d. Sinn bought twelve Big <br> Macs for a party. <br> Total cost in \$? | e. Lil ordered six and a half <br> dozen macaroons for a party. | f. Kai reduced his daily <br> fifteen thousand kilojoule <br> intake by a quarter. |

## Applied

1. List 5 numerical achievements
e.g. My highest score in cricke was made 143 not out in 2021.
2. But numbers on their own a man mean too much you to add some more information to provide $\times \mathrm{Co}$ raiter these 2 examples.
e.g. 1 My highers in cimb twas when I made 143 not out in 2021
(against my five far old brother in the backyard.)
e.g. 2 My highest score in cricket was when I made 143 not out in 2021 (against Kilkunda in the semi-final when playing in the 1sts.)
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.


## Advanced

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


You are ordering food for a party at the local bakery.
You order 50 cupcakes at $\$ 2$ each, 75 sausage rolls at $\$ 1$ each and 25 tarts at $\$ 5$ each. You know you have to pay half the total as a deposit; so you have exactly $\$ 150$ cash for this.
The cashier is quite surly and enters the amounts in her calculator. "That will be \$1,000 in total and your deposit is $\$ 500$."
After you pick your jaw off the ground, you point out that the "calculator might be wrong" and ask if she can please re-check. (That's your PDS training coming in!)
She "hmmphs" loudly, rolls her eyes, and re-enters the numbers in her calculator almost pushing the buttons through the other side.
"Look. Fifty times two, plus seventy-five, times one, plus twenty-five, times five, equals one thousand dollars! So, divided by two your deposit is five hundred dollars. Hurry up and pay please, there's customers waiting you know!"
But you have paid attention during order of operations and your teacher has guided you well. You did the calculations when budgeting for the party so you feel that you should be correct.
What will you do to show her that you are correct?

## 7 Bits and Pieces

## Skills Development

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

| a. Express as a fraction: $0.25=$ | b. Express as a fraction: $0.2+0.6=$ | c. Express as a fraction: $0.80-0.35+0.05=$ |
| :---: | :---: | :---: |
| d. Express as a percentage: $0.50=$ | e. Express as a percentage: $0.27+0.63=$ | f. Express as a percentage: $0.93-0.17+0.05=$ |
| g. Express as a decimal: $5 / 8=$ | h. Express as a decimal: $2 / 3 \times 1 / 6=$ | i. Express as a decimal: $5 / 2-2 / 3+1 / 4=$ |
| j. Calculate percentage: $25 \%$ of $250=$ | k. Calculate pe | I. Calculate percentage: $5 \%$ of $\$ 940=$ |
| m. Calculate and show as a decimal and percentage: $1 / 7+7 / 21=$ | n. Cal mana ow as a decim and coitage: | o. Calculate and show as a decimal and percentage: $1 / 1$ divided by $2 / 2=$ |
| p. Calculate amounts: Discount of $8 \%$ on 6 purchases of $\$ 25$. | q. Calculate amounts: Discount of $15 \%$ on 25 purchases of $\$ 90$. | r. Calculate amounts: Discount of $17.5 \%$ on 3 purchases of $\$ 300$. |
| s. Calculate amounts: Penalty fee of 50\% on $\$ 150$. | t. Calculate amounts: Late fee of $12.5 \%$ on $\$ 12,000$. | u. Calculate amounts: Penalty rate on pay of $25 \%$ for 4 hours at $\$ 12$, and $50 \%$ for a further 4 hours. |
| v. $0.5+50 \%$ | w. $1 / 2 \times 50 \%=$ | x. $50 \times 1 / 2=$ |

## Advanced

Calculate the following based on percentages, decimals and fractions.

| a. $1 / 2+1 / 2=$ | b. $1 / 4+2 / 4=$ | c. $1 / 2+1 / 3=$ | d. $1 / 8+1 / 2+1 / 8=$ |
| :---: | :---: | :---: | :---: |
| e. $1 / 2+0.6=$ | f. $0.20+1 / 2=$ | g. $0.1+0.35+1 / 2=$ | h. $0.6+1 / 4-0.1=$ |
| i. $3 / 4-1 / 4=$ | j. $0.95-0.6=$ | k. $1.5+2.7-1.2=$ | $\begin{aligned} & \text { I. } 0.3+1 / 2-0.2 \\ &+0.8= \end{aligned}$ |
| m. $10 \%$ of $100=$ |  |  | p. $40 \%$ of $50=$ |
| 25\% of \$5000 |  | s. $80 \%$ of \$320= | t. $50 \%$ of \$750 = |

## Applied

a. Juice really likes Jelly Belly Beans. She counts out 100 and will eat these evenly over the next 5 days. What fraction, decimal and percentage will she eat per day? How many different flavours is she likely to eat?
b. Spudzy really likes potato cakes. He buys 3 kg (each weighs 100 grams) and wants to share these evenly with 4 friends. What fraction, decimal and percentage is to be shared between them all? How many does each person get, and the weight?

## 8 Shapes

Skills Development
Name these common shapes. Add 4 more.


## Advanced

Identify the main shapes you can see in this illustration. Name the type of vehicle and describe its overall shape.


Image: muchmania/ Depositphotos.com

## Applied

Use the basic shapes of circle, triangle, square and rectangle to design and draw 3 of the following. (You can add depth and make these into 3D shapes if you have the skill.)
$\Rightarrow$ An animal
$\Rightarrow$ A vehicle
$\Rightarrow$ A toy
$\Rightarrow$ A superhero
$\Rightarrow$ A famous person
See if classmates can identify these.

## 9 Objects

## Skills Development

Name these objects. When would you encounter items resembling these objects in the real world? Add 2 more that you know.


Image: yusufdemirci/Depositphotos.com

## Objects 9

## Advanced

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


Applied

## Look at me

a. Take a selfie.
b. Use digital software to flip the image. Now take a look in the mirror. Are you looking at the same, or a different you? Why is that?
c. Use the software to bisect your image down the middle of your face. Make 2 layers, one for each side of your face.
d. Swap your LHS and your RHS. How do you look? Why?
e. Duplicate your LHS and flip it to make a RHS representation. How do you look?
f. Duplicate your RHS and flip it to make a LHS representation. How do you look?
g. Engineers, scientists and designers say that it is important not to make Artificial Intelligence robots too perfect in appearance. Why would that be the case?

## 10 Time is Time

## Skills Development

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


## Advanced

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

| a. Shop is open 6 days a week: for 11 hours |
| :---: | :---: |
| a day weekdays, and 8 hours on Saturday. |
| Total open hours? | | b. Journey to Adelaide starts 04:30; arrival |
| :--- |
| at 23:30. Actual travel time was 14 hours. |
| Total time and how much time in breaks? |

a. Assume you are working a full-time week in your preferred job. What is likely to be your regular hours of work?
b. Calculate the total time you will spend on your workday. 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. Which do you prefer and why?

## 11 It Takes Time

## 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 by car.
2. Explain which option you would take and why?

| Situation | Time and cost by public transport | Time and cost by car | Which method for you and why? |
| :---: | :---: | :---: | :---: |
| From your home to the CBD. |  |  |  |
| From your home to your nearest cinema. |  |  |  |
| Form your home to your workplace (or a possible workplace). |  |  |  |
| From your home to your nearest hospital. |  |  |  |
| From your city/ town to your airport. |  |  |  |
| From your home to the nearest interstate capital city. |  |  |  |
| From your city/town to the Gold Coast. |  |  |  |

## Advanced

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 10 caffe lattes to a group <br> of waiting customers. | b. Deliver 20 small parcels (using a van) to <br> residents in your street or block. |
| :--- | :--- | :--- |
| c. Make and wrap 50 mixed sandwiches to |  |
| prep for the sporting club canteen. | d. Organise a class of 25 grade 3 children to |
| line up in order of height. |  |

a. As you know, a normal full-time working day will most likely require a greater time commitment than a normal day at school. What might you have to change or give up in your daily routine if you are working full-time? Why?

For some people, their favourite time of the workday is lunchtime. Assume you are doing a full-time work placement at a shop in your local shopping centre, shopping strip or town centre, and you go out to buy your lunch.
b. What will you do at lunchtime? How long will you have? How long will each activity take? Can you do some activities concurrently? Will you have enough time?

## 12 Using My Time

## Skills Development

So 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.
2. Note down the times and duration of any activities you do during the week including:school

| $\square$ sport | $\square$ sleeping |
| :--- | :--- |
| $\square$ structured activities | $\square$ music |
| $\square$ family/home | $\square$ TV |
| duties | $\square$ gaming |
| $\square$ meals | $\square$ online |

$\square$ socialising and any other relevant activities.homeworktravelmealsonline

## Advanced

3. Calculate the amount of leisure time you have per week, and then make estimates for a month and for the entire year.


## 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 so as to devote more time to school and/or work.
$\square$

## Name:

$\qquad$ Dates:

| Mon M |  | Tue |  | Wed / |  | Thur _/ |  | Fri <br> / |  | Sat |  | Sun |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Task done? | Time spent? | Task done? | Time spent? | Task done? | Time spent? | Task done? | $\begin{aligned} & \text { Time } \\ & \text { spent? } \end{aligned}$ | Task done? | Time spent? | Task done? | $\begin{gathered} \text { Time } \\ \text { spent? } \end{gathered}$ | Task done? | Time spent? |


| am |  |  |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $12.01-$ |  |  |  |  |  |  |
| 1.00 |  |  |  |  |  |  |
| $1.01-$ |  |  |  |  |  |  |
| 5.00 |  |  |  |  |  |  |


| $5.01-$ <br> 6.00 |  |  |  |  |  |  |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |


| $6.01-$ |  |  |  |  |  |  |
| ---: | :--- | :--- | :--- | :--- | :--- | :--- |
| 7.00 |  |  |  |  |  |  |
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| 8.00 |  |  |  |  |  |  |


| $8.01-$ |  |  |  |  |  |  |
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2.0
3.00





## 13 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: 5 cm | b. Perimeter of a rectangle: 18 cm by 15 cm | c. Perimeter of a rectangle $16 \mathrm{~cm} \times 250 \mathrm{~cm}$ |
| :---: | :---: | :---: |
| d. Perimeter of a square: 100 mm | e. Perimeter of a rectangle: 2 m by 150 cm | e. Perimeter of a triangle: $1 \mathrm{~m}, 1 \mathrm{~m}, 0.67 \mathrm{~cm}$ |
| g. Area of a square: $8 \mathrm{~cm} \times 8 \mathrm{~cm}$ | h. Area of a square: 250 mm length | i. Area of a rectangle: $0.5 \mathrm{~m} \times 20 \mathrm{~cm}$ |
| j. Area of a rectangle: $2.4 \mathrm{~m} \times 500 \mathrm{~mm}$ |  | I. Volume of a square: 5 cm sides |
| m. Volume of a squa 25 cm length | 13 of a rectangle: <br> 10 c . $\mathrm{x} 8 \mathrm{~cm} \times 25 \mathrm{~cm}$ | o. Volume of a rectangle: $1 \mathrm{~m} \times 0.75 \mathrm{~m} \times 2 \mathrm{~m}$ |
| p. How many ml in 2 and $1 / 2$ litres? | q. How many ml in 8 tablespoons? | r. How many litres in 5,500ml? |
| s. How many grams in 4.75 kg ? | t. How many kgs in 12,500 grams? | u. How many kgs in 3.8 tonnes? |
| v. How many mm in 2.4 metres? | w. How many cm in 10 metres? | x. How many metres in 4.8 km ? |

## Advanced

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


1. The use of specific mesuring devices is essential in work-related situations. For each device listed, identify how it would be used in an occupation for a work-related task.
2. Add 2 more measuring devices related to your own vocational interests.
3. Source or create images for 3 of these measuring devices.

| Device | Occupation/Use | Device |  | Occupation/Use |
| :---: | :---: | :---: | :---: | :---: |
| measuring <br> tape |  |  | photometer |  |
| thermometer |  |  |  |  |
| speedometer |  |  |  |  |
| odometer |  | anometer <br> sphygmoma- <br> nometer |  |  |
| ammeter |  |  |  |  |
| altimeter |  |  |  |  |
| caliper |  |  |  |  |

## 14 On The Floor

## Skills Development

Identify objects and fittings from this 3D rendering of a floorplan.


## Advanced

Create drawings for common household objects and fittings by hand and/or digitally.

## Applied

Sketch a floorplan of your ideal house. You might need to make copies for a multi-story dwelling. Use correct symbols to make the floorplan more readable.


## 15 My Favourite Meal

## Skills Development

1. What's your favourite meal? Why so? What are the ingredients? Can you cook this yourself?

My favourite meal is...

Why so?

The list of ingredients for this meal is...

## Advanced

2. Identify and list preparation and conk. is, is meal.
3. Find out the total costs to prepare a cro meal for 4 people.
Ingredients for 4 (and times)
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$
$\Rightarrow$

## Applied

4. Prepare a recipe (in your own words and using numerical information) to help you or someone else cook this meal. Include an image as well.

Recipe including preparation and cooking times and serving hints and suggestions.

## 16 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.

| 1. Place an ' $S$ ' for same, or a ' $D$ ', for different for each of the following number pairs. Time $=5$ mins. |  | 2. Organise these 30 numbers in the correct order from lowest to highest.$\text { Time }=10 \mathrm{mins}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
| a. 1425 | 1425 | 254 | 542564 | 22666 |
|  |  | 265 | 1254 | 17 |
| b. 2256 | 2265 | 256 | 8652 | 0.69 |
| c. 11256 | 11265 | 852 | 6547 | 56985 |
| d. 17.347 | 17.347 | 359 | 58965 | 36523.236 |
|  |  | 88965 | 2365 | 52698 |
| e. 1523895 | 1523859 | 21 | 214 | 51235 |
| f. \$97.35 | \$97.35 |  | 578 | 125 |
|  |  | 515 | 856541 | 114 |
| g. \$146.76 | \$1406.76 | 9 | 235859 | 2135698 |
| h. 2113459 | 2113549 |  | 16 |  |
| i. 11111512 | 111158 |  | 17 |  |
| i. 0.00462 | $0{ }^{2}$ | 3. | - 18 |  |
| k. 4.046 billion | 6 billion | 4. | 19 |  |
| I. $17.345+9$ | $17.345 \times 9$ | 5. | - 20 |  |
| m. 12/06/1976 | 12/06/1967 | 6. | 21 |  |
| n. 040122532150 | 040122532510 | 7. | 22 |  |
| -. 15:35 | 13:35 | 8. | - 23 |  |
| p. 945256 | 954256 | 9. | 24 |  |
|  |  | 10. | - 25 |  |
| q. 136 @\$0.56 | 136 @\$0.65 |  | - 26 |  |
| r. 5.5697 | 5.5967 |  |  |  |
| s. 0.015 mg | 0.105 mg |  |  |  |
|  |  | 13. | 28 |  |
| t. 72004893 | 72004893 | 14. | - 29 |  |
|  |  | 15. | - 30 |  |

## Advanced

Circle which of these calculations is higher, or lower, or circle both if the same. Time $\mathbf{=} \mathbf{2 0} \mathbf{~ m i n s}$.

| a. $6 \times 4$ | $4 \times 6$ | n. $10 \times 50$ | $60 \times 9$ |
| :---: | :---: | :---: | :---: |
| b. $7 \times 9$ | $50+3$ | o. $1 / 2+1$ | 1.5-0.1 |
| c. 25-17 | 9-2 | p. 0.7 * 5 | 4-0.4 |
| d. $6 \times 4$ | $12 \times 2$ | q. $50 \times 1 / 2$ | $1 / 4 \times 160$ |
| e. $11 \times 7$ | $13 \times 6$ | r. $12 \times 12$ | $11 \times 13$ |
| f. 19-10 | $5+5$ | s. $\$ 7 \times 5$ | \$30 + \$7.50 |
| g. $40 / 10$ | 20-17 | t. $1 \mathrm{~m} / 10$ | $100,000 \times 10$ |
| h. $100+50$ | $75+85$ |  | $40 \times 1.25$ |
| i. $11 \times 12$ | $13 \times 10$ | f 450 | 20\% of 250 |
| 1. $5 \times 25$ | $100+25$ | 2 /3of \$80 | $4 \times \$ 19.99$ |
| k. 17-10 | 23-15 | $+10$ | $3 \times 11-6$ |
| I. $112+36$ | $116+3$ | $14+0$ | $14 \times 0$ |
| m. $1000 / 4$ |  | z. $\$ 1,000 \times 10$ | \$ 10 K |

## Testing time

Find out the type of pre-employment tests that are used for different occupations.
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? |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 17 A Piece of Pie

## Skills Development

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

Image: everything poss/ Depositphotos.com

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 chart is showing one single portion at $75 \%$ and 3 other portions as $25 \%$ combined?
ii. Which pie chart is showing one single portion at the same amount as the 4 other portions combined?
iii. Which pie chart shows 2 pieces equal to one another, 2 small pieces equal to each other and one piece slightly larger than those 2 smaller pieces?
iv. Which pie chart could be showing the responses to a yes/no survey? What might be the question?

## Advanced

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


## Applied

## くららか

a．Survey the class to find out your classmates preference for their favourite type of pie．
b．Create a table to collate the results．
c．Construct a properly labelled pie chart based on this information．
d．Survey the teachers to find out their preference for their favourite type of pie．
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 favourite type of dessert or fruit pie．
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 their favourite type of dessert or fruit pie．
k．Create a table to collate the results．
l．Construct a properly labelled pie chart based on this information．
m．What about you？Where do you fit into these pie charts？

## 18 Working With Graphs

## Skills Development

Bar graphs are a useful way of comparing different data sets using visual representation. They are often used as part of gas, electricity and water bills and when reporting business and financial results.
The amount should be plotted on the vertical or (y) axis and the data sets or time plotted on the horizontal or (x) axis.

| Lingy's Fish ' $n$ ' Chips |  |  |
| :---: | :---: | :---: |
| Total Sales and Net Profit: 2019-'23 |  |  |
| Year | Total sales | Net profit |
| 2019 | $\$ 236,000$ | $\$ 34,000$ |
| 2020 | $\$ 289,000$ | $\$ 49,500$ |
| 2021 | $\$ 345,000$ | $\$ 62,000$ |
| 2022 | $\$ 375,000$ | $\$ 81,000$ |
| 2023 | $\$ 372,000$ | $\$ 86,000$ |

1. Construct a properly labelled bar graph for Lingy's

Fish n' Chips that shows both total sales and total profit over the 5 years.
2. How does this type of graph make it easier to compare different variables?
3. How can total sales go down, yet profit still rise? Explain carefully.


## Advanced

Line graphs are a good way to visually represent change over a period of time. Line graphs usually plot a variable (y) over an equal number of time periods ( x ).

1. Draw a properly labelled line graph that plots the data shown in the table about Australian Apprentices.
2. Describe the trend in the data as shown by the graph.

| Australia: <br> Apprentices and Trainees (in training as at Jun 30) |  |
| :---: | :---: |
| Year | Apprentices |
| 2006 | 404,200 |
| 2008 | 433,900 |
| 2010 | 437,100 |
| 2012 | 514,800 |
| 2014 | 344,700 |
| 2016 | 281,500 |
| 2018 | 276,300 |
| 2020 | 267,700 |
| 2022 |  |
| Source: NCVER 2021, Australian vocational education and training statistics: historical time series of apprenticeships and traineeships in Australia, from 1963, NCVER Adelaide. |  |

## Applied

The Apprentices and Trainees in training line graph you plotted only tells one part of a bigger story. You also should look at the number (and the proportion) of apprentices and trainees who successfully completed their training each time period.
a. Locate the statistics from the NCVER website to find out the number (and proportion) of Apprentices and Trainees who completed their training.
b. Plot a line graph for these numbers on your original graph.
c. What does the difference between the 2 graphs indicate?

## 19 What's the Chance?

## Skills Development

Complete these problems related to chance.

| a. 1 in 2 chance in percentage? | b. 1 in 4 chance in percentage? | c. 1 in 10 chance in percentage? |
| :---: | :---: | :---: |
| d. 1 in 100 chance in percentage? | e. 10 in 100 chance in percentage? | f. 3 in 4 chance in percentage? |
| g. $50 \%$ : What are the odds? | h. $66 \%$ : What are the odds? | i. $12.5 \%$ : What are the odds? |
| j. 10\%: What are the odds? | h. 1\%: What ant puds? | I. $90 \%$ What are the odds? |
| m . Odds of a head? |  | o. Odds of 2 tails in a row? |
| p. Odds of a black card from a deck? | q. Odds of a club card from a deck? | r. Odds of a Jack card from a deck? |
| s. Odds of a black Jack card from a deck? | t. Odds of a spade Jack card from a deck? | u. Odds of an Ace from a deck compared to a 2 card. |
| v. Which is a better chance? 2 in 3 or 3 in 4 | w. Which is a better chance? 7 in 8 or 4 in 5 | x . Which is a better chance? $25 \%$ or 1 in 4 |

## Advanced

Complete these problems related to probability.

| a. Spinning 2 heads in a row. | b. Spinning 4 tails in a row. | c. Spinning a head and then <br> a tail. |
| :---: | :---: | :---: |
| d. Rolling a 6 then a 6. | e. Rolling a pair of 6's. | f. Rolling 5 6's in Yahtzee? |
| g. Drawing 3 cards from a <br> deck and getting 3 Kings. | h. Drawing 4 cards from a <br> deck and getting 4 twcs | i. Drawing 5 cards from a <br> deck and getting 5 Aces. |

## Applied

Often life is about mar ir
Ju should always remember that higher rewards = higher risk int very carcfully before answering these statements.
a. If the sharemarket is averaging a 6\% return, and your bank deposit is only giving you $1 \%$ interest, where should you invest your money? Why is that?
b. If the likelihood of winning 'standard' lotto of 6 numbers from 45 balls is about 8 million to 1 , then why would anyone ever buy a ticket? Would you?
c. Many overseas tourists are afraid of Australia's deadly wildlife. But which animals in Australia are the most dangerous to humans?

## 20 Money

## Skills Development

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

| a. \$2.50 + \$2.99 = | b. $\$ 11 \times \$ 4.50=$ | c. $\$ 7.45+\$ 3.55=$ |
| :---: | :---: | :---: |
| d. $\$ 4-\$ 2+\$ 7=$ | e. $\$ 15 \times \$ 25+\$ 4.50=$ | f. $\$ 14+\$ 99.99+\$ 28.50=$ |
| g. $\$ 2.50-\$ 2.25 \times 2=$ | h. $11 \times \$ 4.50=$ | i. $\$ 7.45-\$ 2.25 \times 6=$ |
| j. $\$ 64 \times \$ 100=$ |  | I. $\$ 6,400 \times 1=$ |
| m. (\$112.50-\$27.50) | c $\times 40 \div 7=$ | $\begin{array}{r} \text { o. } 25 \% \times \$ 250 \\ +50 \% \text { of } \$ 195= \end{array}$ |
| p. $20 \times \$ 5+10 \times \$ 10$ | q. $5 \times \$ 7.50+10 \times \$ 15=$ | r. \$275-\$200-\$50-\$35= |
| s. \$1 million / 50 | t. (\$100 + 10\% ) / 11 = | $\begin{aligned} & \text { u. } 10 \% \text { of } \$ 50+ \\ & \$ 10 \text { of }(2 \times 100)= \end{aligned}$ |

## Advanced

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

| a. If you spend $\$ 7.50$ on lunch every day, how much per week, per month and per year? | b. If you save $\$ 60$ a week for 24 weeks and then $\$ 60$ a week for 24 weeks; total savings? | c. A customer orders 20 cans at $\$ 2.10,30$ loaves at $\$ 3.99$ and 10 kg of veggie snags at $\$ 17 / \mathrm{kg}$. Total price? |
| :---: | :---: | :---: |
| d. After a day selling at the local market, you have 8 x 20s, $16 \times 10 \mathrm{~s}, 27 \times 5 \mathrm{~s}, 12$ $\times 2 \mathrm{~s}, 26 \times 1 \mathrm{~s}$ and $\$ 9.65$ in silver. Total? | e. What change is left $\mathrm{f} . \mathrm{m}$ $\$ 50$ after 9 purchase $\$ 1.20,10$ of $\$ 0.50$ S0. ioc and 9 of | f. If you get paid \$14 an hour for 20 hours, plus double time for the next 8 hours, then how much in total? |

## Applied

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 full-time in your ideal first job, how much would you spend each week on 'working'? How much of your pay might this eat up?
b. What is the total cost if you buy one of each item on a McDonald's menu?

## 21 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. |
| :---: | :---: |
| a. Abdi has just started working in a fish and chip shop for $\$ 12$ per hour. <br> What are some possible reasons why he'd be paid $\$ 12$ per hour? |  |
| b. Joakim works 12 hours per week, as a part-time sales assistant. He earns $\$ 15$ an hour. <br> What age is Joakim likely to be? |  |
| c. Sanfreda works 6 hours per week as a casual in same job as Joakim and paid $\$ 17.50$ per hour. <br> Is it better to work as a part-timer or a casual? |  |
| d. Manny is sub-contracted to do the labour for a plastering job (all tools and equipment provided) at $\$ 1,800$ for the equivalent of 3 full working weeks. How good is this pay? |  |
| e. Sal is paid \$24 as a casual for working as an accounts assistant. Her manager earns a salary of $\$ 45,000$. <br> Who earns more on an equivalent basis? |  |

## Advanced

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 $\$ 1,000$, then 1 hour of work ( $@ \$ 10$ ) = \$10/ \$1,000; 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 | iPhone \$ | Holiday to LA \$ | \$ |
| :---: | :---: | :---: | :---: |
| a. Lerry works 16 hours for the week at \$12/ hour. | - \% of item earned per hour? <br> - \% of item earned per week? | - \% of item earned per hour? <br> - \% of item earned per week? | - \% of item earned per hour? <br> - \% of item earned per week? |
| b. Suze works 10 hours per week at $\$ 15$ per hour. | - \% of item earned per hour? <br> - \% of item earned per week? |  | - \% of item earned per hour? <br> - \% of item earned per week? |
| c. Azar earns \$300 for his working week of 12.5 hours. | - \% of item earned per week? | of item earned per hour? <br> - \% of item earned per week? | - \% of item earned per hour? <br> - \% of item earned per week? |
| d. Myron <br> earns <br> \$1,140 <br> for a <br> standard <br> full-time <br> working <br> week. | - \% of item earned per hour? <br> - \% of item earned per week? | - \% of item earned per hour? <br> - \% of item earned per week? | - \% of item earned per hour? <br> - \% of item earned per week? |

## Applied

Assume you are working in a common occupation for casual teenagers such as a fast food restaurant or a retailer. How many work hours would it take you to save for a car? Think carefully.

## 22 What I Have

## Skills Development

1. List 12 things you own, the year you acquired each, and the approximate price of each.
2. Discuss your list, the cost of the items and who paid for them, with a classmate.

3. List 12 things you would like $a, p$ proximate price of each and when you are likely to acquire these. Pisc s,c ins with a classmate, including who will pay for them.

| 1 |  |  | 3 |
| :--- | :--- | :--- | :--- |

## Advanced

The value of money changes over time (due to inflation) as does our appreciation of the 'value' of that amount. Just a little money when you were in grade 2 might have got you excited and rushing down to the milk bar. But as we get older we seem to need more money. Complete the table for the following situations, then discuss these as a class.

| Situction |
| :--- | :--- | :--- | :--- | :--- |
| When I was |
| 7 and I was |
| given \$1... |$\quad$ How would you have felt?

## Applied

How does inflation affect the budget of your household? Ask at home and find out how prices have changed over the last year. What has your family had to do in response to this?

## 23 Bulk Up

## Skills Development

Buying in bulk can save money. However, there are some products that people should think carefully about before buying in bulk (such as perishables, snack foods, alcohol and other consumables.) You should also consider whether you actually need to multipurchase items if part of a volume deal; e.g. buy 2 bottles of Patie Kerry perfume and get the third one free!

1. Choose 4 purchases, and explain why buying in bulk is a good idea for this product. Compare sizes and calculate how much you could save.

2. Choose 4 purchases and explain why buying in bulk is not a good idea for this product. e.g. Pringles are half-price this week. However, if I buy more I know that I will just eat them straight away!
i.
ii.
iii.
iv.
3. Phil says that he is waiting for the Boxing Day sales and is planning to buy six 5 -packs of underwear because they are advertised as being half-price. He also reckons that means he will only have to both wear and wash these once a month. He says that these briefs should last him many, many years! What do you think about his financial strategy?


| My strategy: | Disadvantages | Advantages | Disadvantages |
| :--- | :--- | :--- | :--- | :--- |
| Advantages |  |  |  |

## 24 Occupational Wages

## Skills Development

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. $\qquad$
ii. $\qquad$
iii. $\qquad$
iv. $\qquad$
V. $\qquad$
2. Find out the average weekly income for your occupar

Search using:
https://nationalskillscommission.gov.au Be sur
the year of the data you find.
Find out 5 other average weekly earnings.
3. Outline why you think this occupation eare th taynt. Is this what you expected?

| i. |  |  |
| :--- | :--- | :--- |
| ii. |  |  |
| iii. |  |  |
| iv. |  |  |
| v. |  |  |
| vi. |  |  |
| vii. |  |  |
| vii. |  |  |
| ix. |  |  |
| x. |  |  |

## Advanced

1. Rank the occupations below in order based on their average weekly income (for a fulltime 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, general clerk, registered nurse, retail manager, aged and disabled carer, accountant, primary school teacher, electrician, commercial cleaner, receptionist


## Applied

How much income do you think you will earn in your lifetime? How will you estimate this?

## 25 Getting Advice

## Skills Development

A financial mentor can really help guide and assist younger and inexperienced people to deal more successfully with money issues. List 5 financial matters a mentor might be able to help you with. e.g. I want to know how much I should pay for my first car.
i. $\qquad$
ii. $\qquad$
iii. $\qquad$
iv. $\qquad$
v. $\qquad$
2. Develop a profile of the type of person who might you. Develop questions to guide you to find po
table financial mentor for mentor candidates.


## Advanced

From where else could I source financial advice that is free and from reputable agencies. Consider government portals and 'emergency' financial advice for young people.

## Applied

Interview a small business person and find out the following information related to their business; as well as their advice on the following business-related numeracy issues.

| Name: <br> Business \& short description: |  |
| :---: | :---: |
| How do you use numeracy skills for planning in your business? | What advice can you give me about this? |
| How do you use numeracy skills for your day-to-day work-related tasks in your business? | What gdvice can you give me about this? |
| How do you use numeracy skills for ${ }^{\text {at }}$ management in your business | What advice can you give me about this? |
| How did you learn these numeracy skills for your business? | What advice can you give me about this? |
| What other numeracy skills are vital for your business? | What advice can you give me about this? |
| So, is small business for me? Explain. |  |

## 26 Shopping Smarter

## Skills Development \& Advanced

Over the course of the year you have developed some pretty useful numerical skills. Now it's time for you to use these skills to help save some money on your household budget.
Talk to the person responsible for your family's weekly shop. Find out about the following:
a. Must-buy regular items (staples such as milk and bread, etc.)
b. Must-buy irregular items (toiletries, cleaning products, etc.)
c. Perishables such as meats, fruit and vegies (and how much of these get used?)
d. Preferred-buy brands
e. Products that don't need to be brand-specific
f. Speciality items (such as seasonal, celebratory and gift items)
g. Treats and luxury purchases.

1. Research online and in-store for specials and bargains.
2. Complete the following tasks.
a. Identify must-buy regular items on special. Offer
b. Identify must-buy irregular items on special. Offer purchase advice and savings.
c. Identify purchase strategies for perishables.

Offer purchase, usage advice and savings.
d. Identify preferred-buy brands on special. $\sim$ urchase advice and savings.

e. Identify products that don't need to be brand-specific.

Offer purchase advice for brand substitutions and savings.

## 26 Shopping Smarter

f. Identify speciality items on special. Give purchase advice and savings.

Offer purchase advice, suggest where sacrin iave been made and savings.

h. Identify any other information that you have discovered, or shopping tips. Offer purchase advice and savings.

## Applied

So how well did you do? Use this table to outline and summarise your savings measures.

1. Include each item, its original price and the new price. Calculate money saved.
2. Briefly explain other information in the final column such as brand switches, bulk buys, and other advice, etc..
3. Calculate total savings. Now, present your information to a suitable audience. Will you continue to do this every week to help your household save money?


## Reflection and Review

Complete this journal to reflect on your development of Numeracy Skills.
Journal of: $\qquad$ Date: $\qquad$
$\Rightarrow$ What did I most enjoy during this year as part of my Numeracy studies?

$\Rightarrow$ What major numeracy skills and tools did I develop and apply?

$\Rightarrow$ How did I use and apply what I learned for 1 -sc al and social activities?

$\Rightarrow$ How did I use and apply wat I learned in my work-related activities?

$\Rightarrow$ What might be the most important things for me to focus on next, and why?

$\Rightarrow$ What other information can I share and/or how would I summarise my experiences?


## VCE: Vocational Major

$\left.\begin{array}{|lllll|}\hline \text { *Note: 3\&4 due Nov \& Dec '23 } & \begin{array}{c}\text { Printed } \\ \text { Coursebook }\end{array} & \begin{array}{c}\text { Applied } \\ \text { Vocational } \\ \text { Booklet }\end{array} & \begin{array}{c}\text { Master license } \\ \text { PDFs }\end{array} & \begin{array}{c}\text { Mastersion } \\ \text { PDFs }\end{array} \\ \text { *Literachse }\end{array}\right\}$
$3 \& 4$ Interim masters

- Available now
- Available now

Available in Oct

- Available now
$3 \& 4$ Interim masters Available from Nov Available from Nov

| Vocational Pathways Certificate |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| *Note: 3\&4 due Dec '23 \& Jan '24 | Printed Coursebook | Applied Booklet | Master license PDFs | e-version Master license PDFs |
| *Literacy VPC: 3\&4 | @ \$49.50 | _ @ \$27.50 | _ @ \$385 | or __ @ \$495 |
| *Work Related Skills VPC: 3\&4 | _ @ \$49.50 | __ @ \$27.50 | _ @ \$385 | or __ @ \$495 |
| Literacy VPC: 1\&2 | _ @ \$49.50 | _ @ \$27.50 | _ @ \$385 | or __ @ \$495 |
| Numeracy VPC: 1\&2 | _ @ \$49.50 | __ @ \$27.50 | __ @ \$385 | or __ @ \$495 |
| Personal Development VPC: 1\&2 | __ @ \$49.50 | __ @ \$27.50 | _ @ \$385 | or __ @ \$495 |
| Work Related Skills VPC: 1\&2 | _ @ \$ 49.50 | __ @ \$27.50 | _ @ \$385 | or __ @ \$495 |

## Order Details

| Name: |  |
| :--- | :--- |
| Position: |  |
| e-mail: |  |
| School: |  |
| Address: |  |
| State: | Postcode: |
| Order No: |  |
| email for invoice (if different): |  |



