## NUMERACY Skills Development Portfolio

i. Contents

1. Addition
2. Subtraction 2
3. Addition and Subtraction .4
4. Time 10
5. Calculating Time ..... 12
6. Directions and Location ..... 14
7. Travel Time ..... 16
8. Money ..... 18
9. Making Change ..... 20
10. Percentages and Fractions ..... 22
11. Multiplication ..... 24
12. Order of Operations ..... 26
13. Pay ..... 28
ii. Progress Record
14. Rosters and Timesheets. ..... 30
15. Budgets ..... 32
16. Estimating ..... 34
17. Length and Distance. ..... 36
18. Measurements ..... 38
19. Weight ..... 40
20. Capacity ..... 42
21. Division ..... 44
22. Data and Information ..... 46
23. Bar Graphs ..... 48
24. Pie Charts ..... 50
25. Line Graphs ..... 52
26. Lik $\operatorname{li}$ ..... 54
Refy 1 and Review ..... 56

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$\Rightarrow$ Personal Development VM 1\&2: Coursebook \& Applied Vocational Booklet
$\Rightarrow$ Work Related Skills VM 1\&2: Coursebook \& Applied Vocational Booklet
VPC Units 1\&2: From 2023
$\Rightarrow$ Literacy VPC $1 \& 2$ : Coursebook \& Applied Vocational Booklet
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$\Rightarrow$ Personal Development VPC 1\&2: Coursebook \& Applied Vocational Booklet
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## VCE: VM units 3\&4: From 2024

$\Rightarrow$ Literacy VM 3\&4: Coursebook \& Applied Vocational Booklet
$\Rightarrow$ Numeracy VM 3\&4: Coursebook \& Skills Development Portfolio
$\Rightarrow$ 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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## 1 Addition

## Skills Development

Complete the following addition calculations to build your skills. Make sure that you show appropriate workings out.


## Advanced

Calculate the following addition problems and show your workings out for each.
 12,000 steps on Monday, 7,500 on Tuesday, 4,250 on Wednesday, 14,000 across Thursday and Friday, 8,000 on Saturday and 17,250 on Sunday. How many steps did Johan walk in that week?
b. Lindsie is at work in the bakery and the first customer buys 12 bread rolls, the second 24 bread rolls, the third (a café) buys 100 rolls and the next 4 customers buy 6 bread rolls each. The final customer buys 2 dozen bread rolls. How many bread rolls in total did Lindsie sell?

## 2 Subtraction

Skills Development
Complete the following subtraction calculations to build your skills. Make sure that you show appropriate workings out.

| a. $26-7=$ | b. $84-9=$ | c. $\begin{array}{r} 46 \\ -2 \\ \hline \end{array}$ | d. $\begin{array}{r} 55 \\ \underline{-9} \end{array}$ |
| :---: | :---: | :---: | :---: |
| e. $94-68=$ | $94-53=$ | g. $\begin{array}{r} 53 \\ -15 \\ \hline \end{array}$ | h. $\begin{array}{r} 85 \\ -25 \\ \hline \end{array}$ |
| i. $89-47=$ | j. |  | $\begin{array}{ll} \text { I. } & \\ & 125 \\ & \underline{-85} \\ \hline \end{array}$ |
| $\text { m. } 17-9-3=$ | <7-36-12 = | 0. $\begin{array}{r} 76 \\ 25 \\ -11 \\ \hline \end{array}$ | p. $\begin{array}{r} 99 \\ 64 \\ -\quad 24 \\ \hline \end{array}$ |
| q. $144-22-6=$ | r. $146-46-50=$ | S. $\begin{array}{r} 100 \\ 30 \\ -10 \\ \hline \end{array}$ | t. $\begin{array}{r} 150 \\ 42 \\ -9 \end{array}$ |
| u. $155-65-23-9=$ | v. $138-55-38-2=$ | $\text { w. } \begin{array}{rr}  \\ & 72 \\ & 56 \\ & 4 \\ & -\quad 11 \\ \hline \end{array}$ | $\begin{array}{rr} \text { x. } & 121 \\ & 8 \\ & 14 \\ & -30 \\ \hline \end{array}$ |

## Advanced

Calculate the following subtraction problems and show your workings out for each.

| a. 88-9-7-6-16-25 = | b. 222-33-55-44-77 = | c. $14-1.5-7-2.5=$ |
| :--- | :--- | :--- |
| d. 150 cars in car park. 27 <br> leave in hour 1, 36 in hour <br> 2 and 74 in hour 3. How <br> many cars remaining? | e. Janez has made 100 <br> tarts for the party. Ben <br> eats 12, Lola 16, Cram 24 <br> 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 <br> of mince how much is left <br> after making 100? |

a. Markie is out shop, ing and has $\$ 1,000$ in his bank. He spends $\$ 250$ on a suit, $\$ 75$ on a new pair of boots, $\$ 200$ on a new power saw and buys 3 iTunes cards at $\$ 20$ each. After spending $\$ 20$ on lunch how much does he have left?
b. My is doing a 5-day 600 km cycling training program. On day 1 she cycles 120 km, day 2: 73 km , day 3: 106 km and day 4: 175 km . How many kilometres does she need to cycle on day 5 to reach her target?

## 3 Addition and Subtraction

## Skills Development

Complete the following addition and subtraction calculations to build your skills. Make sure that you show appropriate workings out.

| a. $7+19-16=$ | b. $57+32-29=$ | c. $11+17+25-16=$ |
| :---: | :---: | :---: |
| d. $81+125-52=$ | e. $57-44+114=$ | f. $\begin{array}{r} 26 \\ +\quad 25 \\ -\quad 42 \\ \hline \end{array}$ |
| g. $35+86-16-4=$ | h. $10+20+39-1=$ | i. $\begin{array}{r} 50 \\ -\quad 25 \\ +\quad 30 \\ \hline \end{array}$ |
| $\mathrm{j} .$ | $32+56-24+81=$ | I. $\begin{array}{r} 11 \\ +124 \\ -\quad 10 \\ -\quad 50 \\ \hline \end{array}$ |
| $\mathrm{m}_{17}+15-9-8-2-5=$ | $158+252-70=$ | o. $52-57+105-18=$ |
| p. $1,000+2,000-500=$ | q. $500-250+1,250-750=$ | r. $70-20-25-35=$ |

## Advanced

Calculate the following addition and subtraction problems and show your workings out for each.

| a. $2.5+27+6.5-12.25=$ | b. $150-25-12.5+6+800=$ | C. $11-14+1,000+250-9=$ |
| :---: | :---: | :---: |
| d. | e. | f. |
| $\begin{gathered} 4,500-3,750+9,995 \\ -6,125= \end{gathered}$ | $56,000+96,000-36.070$ | $\begin{gathered} 8,000+1,000-900- \\ 6,500= \end{gathered}$ |
| g. $\begin{array}{r} 17,000+5,250+ \\ -4,100= \end{array}$ | $\begin{aligned} & 7,2,000+257,000- \\ & 82,000-25,000= \end{aligned}$ | i. $\begin{gathered} 1,450,000-250,000+ \\ 750,000-90,000= \end{gathered}$ |
|  | k. | I. |
| $\begin{aligned} 7.1-4.6 & +5.8-2.1+3.8 \\ & -2.7= \end{aligned}$ | $1,000 \mathrm{~kg}$ plus 40 kg add another $2,000 \mathrm{~kg}$ then take away $725 \mathrm{~kg}=$ | 1 million plus a 100 million minus 10 million = |

## 3 Addition and Subtraction

## Applied

You start out with $\$ 100$. You earn $\$ 75$ next week and spend $\$ 50$. You earn $\$ 150$ the week after and spend $\$ 160$. You earn $\$ 200$ the week after that and spend $\$ 175$. Finally, you earn nothing in the final week but still spend $\$ 57$.
a. 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 too that an rou keep track of your ongoing personal income and sper ins


Cal is working the fryers at the Fish'n'Chippery. He fries up 2 kg of chips to get started. 10 customers each buy 250 g of chips. In the meantime, Cal has fried another batch of 2 kg . 5 more customers each buy a 250 g serve.
d. How much chips are left?
e. Estimate how much you think the total chips might have sold for.

A shop starts with the following stock.
$\Rightarrow$ Chocolate bars $20 \quad \Rightarrow$ Chips 60
$\Rightarrow$ Health bars 12
$\Rightarrow$ Drinks 50
$\Rightarrow$ Packs of jellies 15
$\Rightarrow$ Gum 35
At the end of the week it has these amounts of stock left.
$\Rightarrow$ Chocolate bars $5 \quad \Rightarrow$ Chips $6 \quad \Rightarrow$ Health bars 1
$\Rightarrow$ Drinks $12 \quad \Rightarrow$ Packs of jellies $9 \quad \Rightarrow$ Gum 7
f. Based on these numbers, how many of each item did it sell?
g. How many items did it sell in total?

A competitor shop sells the same items. At

same amounts of stock. However, at theon orthe week these are the totals.
$\Rightarrow$ Chocolate bars 14

$\Rightarrow$ Health bars 4
$\Rightarrow$ Drinks 6
$\Rightarrow$ Gum 0
h. So based on those numbers, homa each item did the competitor sell, and how many items did in ir tol

i. Which shop do you think is doing better? Explain the reasons for your answer.
j. If you climb 20 metres up a steep slippery hill every minute, but slip back 5 metres each time, how far up the hill will you have climbed after 10 minutes?

## 4 Time

## Skills Development

a. Show the time indicated by each of the analogue clockfaces.


## Advanced

Write these times from the clockface using digital time (with am/pm) and using a 24-hour clock display.


Applied
Your neighbour has booked a flight to LA. The flight time is 15:30. So when during the day is the plane leaving? What time would your neighbour have to leave to go to the airport? Think carefully about this.

## 5 Calculating 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 <br> week: for 10 hours a day <br> weekdays, and 8 hours on <br> Sunday. Total open hours? | b. Journey to Sydney <br> starts 05:30; arrival at <br> 20:30. Actual travel time <br> was 10 hours. Total time <br> and how much time in <br> breaks? | c. Need to slow cook a <br> stew for 14 hours. Dinner <br> party is at 7:30pm. When <br> do you put the stew on? |
| :---: | :---: | :---: | :---: |

Assume you are working a full-time week as part of work placement or in your preferred job. Calculate the total time you will spend on your workday. Include getting ready for work, travelling, hours worked and breaks.

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?

## 6 Directions and Location

## Skills Development

a. What are the following directions as shown on the compass?

b. Indicate the following viry insen he compass.


## Directions and Location 6

## Advanced \& Applied

Describe the relative location of key features shown in this cross-section image of a house. You could use left, right, next to, behind, up, down, etc.
Aim for a description of at least 8 features from the image such the rooms, people and key objects within the rooms.

Have a go at creating and describing a similar image based on your own dwelling.


## 7 It Takes Time

## Skills Development

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.

Explain which option you would take.

| 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 4 caffe lattes to a <br> group of waiting customers. | b. Make and wrap 20 salad rolls to prep <br> for the sporting club canteen. |
| :---: | :---: |
| c. Organise your class to line up in order |  |
| of height. |  |
| e. Take and lodge the orders for anise a class of 20 prep children to |  |
| of 4 diners in a café. |  |
| line up in order of height. |  |

## Applied

A normal full-time working day will 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?

## 8 Money

## Skills Development

Calculate each of these money totals. Make sure that you show appropriate workings out.


## Advanced

Calculate the money total for each of these situations.

| a. You spend \$7 every <br> day. How much per week, <br> per month and per year? | b. You save \$50 a week <br> for 20 weeks and then <br> $\$ 60$ a week for 15 weeks. <br> Total savings? | c. A customer orders 20 <br> cans at \$2.50, 30 loaves at <br> $\$ 3.50$ and 10 kg of veggie <br> burgers at \$15/kg. <br> Total price? |
| :--- | :---: | :---: | :---: |

a. You go to buy dinner for the family. 2 Big Macs, 2 Quarter Pounders, 12 nuggets, 4 large fries, 3 large soft drinks, 1 shake and a Happy Meal. How much will this cost?
b. Cril has had a car for a month. Insurance $\$ 700$, rego $\$ 900$, new tyres $\$ 375$, sound system $\$ 320$ and petrol at $\$ 1.80$ a litre for 100 litres. Total Cril's vehicle costs for the month. Should some of these be averaged over a longer time period?

## 9 Making Change

## Skills Development

Calculate the exact change for each of these transactions. List the currency units you would use to make the change.

| a. Purchase of $\$ 7.50$. Given \$10. | b. Purchase of $\$ 12.50$. Given \$20. | c. Purchase of $\$ 24.75$. Given \$50. |
| :---: | :---: | :---: |
| d. Purchase of $\$ 63.75$. Given \$100. | e. Purchase of $\$ 2.20$. Given \$10. | f. Purchase of \$12.95. Given \$20. |
| g. Purchase of $\$ 22.75$. Given 3 x \$10s. |  | i. Purchase of $\$ 97.50$. Given \$50 \& 3 x \$20s. |
| j. Purchase of \$35. <br> Given a $\$ 20$ \& $\$ 20$. | k. Purchase of $\$ 55.75$. Given a \$50 \& \$20. | I. Purchase of $\$ 62.50$. Given a \$50 \& \$20 |
| m. Purchase of $\$ 75$. Given a \$50 \& \$20 \& \$10 | n. Purchase of $\$ 159.95$ Given a \$100 \& \$50 \& \$20. | o. Purchase of $\$ 73.70$ Given 4 x $\$ 20$ s. |

## Advanced

Calculate the money total for each of these situations. Make sure that you show appropriate workings out.

| a. What change is left from \$100 after 6 purchases of $\$ 16.50$ ? | b. What change is left from $\$ 100$ after 12 purchases of $\$ 5.50$ and 3 of $\$ 9.50$ ? | c. What change is left from $\$ 170$ after 9 purchases of $\$ 11,5$ of $\$ 5$, 3 of $\$ 6$ and 1 of $\$ 20$ ? |
| :---: | :---: | :---: |
| d. How much change do you give after diners split their $\$ 450$ bill 10 ways? Each pays with a fifty. | e. What change is left from $\$ 20$ after 8 purchases of $\$ 1.20,10$ of $\$ 0.50$ of 60 c and 9 of 45 | f. Customer is to be given change of $\$ 17$ but you haven't any notes left. |
| g. You buy 2 hotdogs a \$2.49 each. You don't g any change from $\$ 5$. $N$ not? | Youh Nileady spent 2 5 - ic $\$ 5$, so what (at c. 1 you get for your lite brother from the milk bar? | i. Customer buys 2 pair of jeans at \$89.95. <br> How much change from a \$200 note? |

Applied
You work as a casual at a hair salon and clients usually pay by card. But today the system is down. So you have to process the transactions manually and take cash.
Here is the price list. Cut $\$ 45$. Colour $\$ 55$. Style $\$ 65$. Set $\$ 30$. Trim $\$ 35$.
Calculate each clients' total bill.
What (cash) currency units will you be expecting to receive when each pays?
$\Rightarrow$ Mina gets a cut, colour and set.
$\Rightarrow$ Gina gets a trim and set.
$\Rightarrow$ Lina gets a trim and style.
$\Rightarrow$ Pina gets a cut, style and set.
$\Rightarrow$ Tina gets a colour and set.
$\Rightarrow$ Xina gets trim, style and colour.

## 10 Percentages and Fractions

## Skills Development

a. Write each of the following as a fraction, a decimal and a percentage. For the images write these for both the red (shaded) and white portions.

b. Write each of the following fractions as a decimal and as a percentage.

| a. $1 / 10$ | b. $3 / 10$ | c. $2 / 3$ | d. $9 / 10$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| e. $5 / 100$ | f. $1 / 20$ | g. $3 / 4$ | h. | $7 / 20$ |

## Advanced

Calculate the following based on percentages, decimals and fractions.

| a. $1 / 2+1 / 2=$ | b. $1 / 4+1 / 4=$ | c. $1 / 3+1 / 2=$ | d. $3 / 8+1 / 2=$ |
| :---: | :---: | :---: | :---: |
| e. $1 / 2+0.5=$ | f. $0.25+1 / 2=$ | g. $0.1+0.3+1 / 2=$ | h. $0.6+1 / 2-0.1=$ |
| i. $1 / 2-1 / 4=$ | j. $0.9-0.6=$ | k. $1.5+2-1.2=$ | I. $0.3+1 / 2-0.2=$ |
| m. $10 \%$ of $100=$ |  | 50 | p. $40 \%$ of $500=$ |
| 25\% of \$250 |  | s. $80 \%$ of \$160 = | t. $50 \%$ of \$350 = |

## Applied

a. Klem likes Skittles. She counts out 100 and will eat these evenly over the next 4 days. What fraction, decimal and percentage will she eat per day?
b. Harry likes fried chips. He buys 2 kg and wants to share these evenly with 7 friends. What fraction, decimal and percentage is to be shared between them all? What would be the weight of each shared portion?

## 11 Multiplication

## Skills Development

Complete the following multiplication calculations to build your skills. Make sure that you show appropriate workings out.


## Advanced

Calculate the following multiplication problems; show your workings out for each.

| a. $278 * 30=$ | b. $100 \times 40 \times 12=$ | c. 70 * $15 \times 26)^{*} 14=$ |
| :---: | :---: | :---: |
| d. $10 \times 1,000 \times 50 \times 20=$ | e. $11 \times 77 \times 66 \times 88=$ | f. $15 * 10(-2)=$ |
| g. A person runs 5 km per day, 3 times a week. Total km? | h. 6 people each pa + of $\$ 25$. They do weeks. | i. A cat runs up and down 15 stairs 50 times a day. How many stairs in a fortnight? |
| Applied |  |  |
| a. Allain buys a can 0. . .oke every day. How much does Allain spend per week and for the year? |  |  |

b. Jiminy drives 15 km each weekday and 100 km on each weekend. How many km per week and per year? (What about per month?)

## 12 Order of Operations

## Skills Development

Complete each of these calculations using the correct order of operations. Make sure that you show appropriate workings out.

| a. $5 \times 6+7=$ | b. $9+7 \times 4=$ | c. $10 \times 10 / 5=$ |
| :---: | :---: | :---: |
| d. $12 * 10-50=$ | e. $20 * 15-25=$ | f. $15+20 * 9=$ |
| g. $15 / 3+25+10=$ | h. | i. $15+3+25 \times 10=$ |
| $2 \times 6+14 \times 7=$ | $8 * 10 * 20=$ | I. $28 \times 5+12 \times 5=$ |
| $\text { m. } 65-(7 \times 8)-2=$ | $10+(70 \times 10)-5=$ | 0. $20 \times 20-20 \times 20=$ |
| p. $15 / 5+(7 \times 20) \times 10=$ | q. $100 / 25+(4 \times 10) \times 15=$ | $50-43+(11 * 6)-15=$ |

## Advanced

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

| a. You have 5 groups of 5 trainees, you add 5 more and then split them into 6 groups. How many per group? | b. You earn $\$ 20$ a day for a week, but spend $\$ 100$. You then earn another $\$ 15$ for 3 days running. How much do you have? | c. A customer buys 10 hats at $\$ 20$ each and 10 scarves at $\$ 10$ each. He wants to pay in 3 equal instalments. |
| :---: | :---: | :---: |
| d. 30 fish weigh 10 kg in total. You take out the 5 biggest which removes 2 kg . What is the average weight of those left? | e. Each outfit requires? m of cloth $+1 / 2$ metre hems \& seams. ㅇ \& In ny metres for . . s? | f. You have 1,000 M\&Ms for 10 people at the party. But an extra 2 people turn up. How many M\&Ms for each? |

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?

## 13 Pay

Skills Development
Calculate the total pay for each of these people.


## Advanced

Calculate the total pay for each of these people.

| a. Mo earns $\$ 20$ per hour plus 50\% for overtime. Mo works 38 hours plus 8 hours overtime. | b. Na gets $\$ 15$ per hour and works 20 hours per week for 20 weeks. | c. Ol gets $\$ 30$ per hour and works a standard working week for the whole year. |
| :---: | :---: | :---: |
| d. Po is paid $55 \%$ of the adult rate, which is $\$ 30$, and works a 38 -hour week. | e. Qu is paid $90 \%$ of tre adult rate, which | f. Ru gets a salary of \$104,000 per year. How much per week, and per hour, based on 38-hour weeks? |

## Applied

If you got a casual job at one of the big supermarkets or fast food chains, how much would you be paid per hour?
Would you be entitled to be paid penalty rates? If so, how much and for when? How could you find out? Off you go then - find out for sure!

## 14 Rosters \& Timesheets

## Skills Development

a. Complete a roster for each of the workers based on the following information. If you show this on the same roster template you could use different colours.

| Henry | Henrietta |
| :--- | :--- |
| Mon: $8 \mathrm{am}-5 \mathrm{pm}$ | Mon: 8am -5 pm |
| Tues: 9am -6 pm | Tues: Off |
| Wed: Off | Wed: 8am -5 pm |
| Thur: Off | Thur: 9am -6 pm |
| Fri: 8am -5 pm | Fri: 11am $-7: 30 \mathrm{pm}$ |
| Sat: 10am-7pm | Sat: 12pm-7pm |
| Sun: $12 \mathrm{pm}-4 \mathrm{pm}$ | Sun: Off |


|  | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $8: 00$ |  |  |  |  |  |  |  |
| $9: 00$ |  |  |  |  |  |  |  |
| $10: 00$ |  |  |  |  |  |  |  |
| $11: 00$ |  |  |  |  |  |  |  |
| $12: 00$ |  |  |  |  |  |  |  |
| $13: 00$ |  |  |  |  |  |  |  |
| $14: 00$ |  |  |  |  |  |  |  |
| $15: 00$ |  |  |  |  |  |  |  |
| $16: 00$ |  |  |  |  |  |  |  |
| $17: 00$ |  |  |  |  |  |  |  |
| $18: 00$ |  |  |  |  |  |  |  |
| $19: 00$ |  |  |  |  |  |  |  |
| $20: 00$ |  |  |  |  |  |  |  |

b. Calculate the hours 'at work' for each worker for the week. How many hours 'at work' does each average per day?

| Henry | Henrietta |
| :--- | :---: |
|  |  |

## Advanced \& Applied

Complete timesheets for Henry and for Henrietta based on the information in ' $a$ '. Henry (aged 16) is paid $\$ 12$ an hour and Henrietta (an adult) is paid $\$ 22$ an hour. Workers get a 1-hour unpaid break if they work more than 5 hours in a shift.

| Name: |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Date | Start | Finish | Break | Hours Worked | Rate | Total |
| Monday |  |  |  |  |  |  |  |
| Tuesday |  |  |  |  |  |  |  |
| Wednesday |  |  |  |  |  |  |  |
| Thursday |  |  |  |  |  |  |  |
| Friday |  |  |  |  |  |  |  |
| Saturday |  |  |  |  |  |  |  |
| Sunday |  |  |  |  |  |  |  |
| Totals |  |  |  |  |  |  |  |
| Name: |  |  |  |  |  |  |  |
|  | Date | Start | Finish | Break | Hours Worked | Rate | Total |
| Monday |  |  |  |  |  |  |  |
| Tuesday |  |  |  |  |  |  |  |
| Wednesday |  |  |  |  |  |  |  |
| Thursday |  |  |  |  |  |  |  |
| Friday |  |  |  |  |  |  |  |
| Saturday |  |  |  |  |  |  |  |
| Sunday |  |  |  |  |  |  |  |
| Totals |  |  |  |  |  |  |  |

## 15 Budgets

## Skills Development

a. Calculate the following budget results.

|  | a. <br> Income: \$500 Expenses: \$400 | b. <br> Income: $\$ 800$ <br> Expenses: $\$ 400+\$ 385$ | c. <br> Income: \$1,500 Expenses: $\$ 400 \times 4$ |
| :---: | :---: | :---: | :---: |
|  | d. <br> Income: $\$ 50 \times 20$ <br> Expenses: $\$ 20 \times 50$ | e. <br> Income: \$573 <br> Expenses: $\$ 178+\$ 322$ | ```f. Income: $9m Expenses: $4m + $2.5m + $1m + $0.5m``` |
| b. Complete budgets based on the fc eill wation |  |  |  |
| a. 1-week budget  <br> Income: Fone: <br> Wages $\$ 500$ Expenses: <br> Expenses: Rent $\$ 150$ a week <br> Rent $\$ 200$ Food $\$ 100$ a fortnight <br> Food $\$ 90$ Bills $\$ 75$ a week <br> Bills $\$ 75$ Travel $\$ 25$ a week <br> Petrol $\$ 25$ Phone $\$ 50$ for 4 weeks <br> Other $\$ 15$ Internet $\$ 70$ for 4 weeks <br>  Other $\$ 40$ a week |  |  |  |

## Advanced

Use your numerical skills to answer each of these budget-related questions.


## Applied

Preparing a budget is a great way to help you save for the future in order to reach a savings goal, such as saving up to buy an iWatch, a new phone or a car.
a. Prepare a budget that shows your current financial situation and your revenue and expenditure patterns.
b. Estimate how much money you will need to save to buy your first motor vehicle (or some other longer-term savings goal). Also estimate how long that may take.
c. Use your budget to forecast your likelihood of achieving this savings goal.
d. Identify revenue and expenditure areas from your budget that you can change to better help you reach your savings goal.
e. Re-calculate your budget reflecting these changes.
f. Report on how much more likely you are now going to be able to reach your savings goal.

## 16 Estimating

## Skills Development

Complete the following estimates. Then do some research and/or calculations to check the accuracy of these.

| a. How long would it take you to walk to school? | b. <br> How far away is the nearest fish'n'chip shop from you? | c. How long is a plane trip from Melbourne to Perth? |
| :---: | :---: | :---: |
| d. <br> What weight of food would you consume in a day? | e. How much does your family spend on electricity in a year? | f. <br> How many SMS messages do you send a day? |
| g. How many kilometres does your family vehicle travel in a week? | h. <br> Hos © usise your famin's anigh? <br> $\sim^{\prime}$ | i. <br> How long do you take to have a shower? |
| j. How many tiles are on a normal sized tiled house roof? | k. How much income are you likely to earn in your lifetime? | I. <br> How many items of outer clothing do you own? |
| m. <br> How much soft drink do you consume in a week? | n. How many hours a 'day' do you spend asleep? | o. What is the temperature in this room right now? |

## Advanced

Complete the following estimates. Then do some research and/or calculations to check the accuracy of these.

b. Think of a child at the age of 5 . What height do you think they would be? Research or make measurements to assess your estimates. How about you what height were you at aged 5?

## 17 Length and Distance

## Skills Development

Calculate the following lengths in the most appropriate unit. Make sure that you show appropriate workings out.

| a. How many centimetres (cm) in a metre (m)? | b. How many cm in 3 m ? | C. How many cm in 8.5 m ? |
| :---: | :---: | :---: |
| d. How many millimetres ( mm ) in a centimetre (cm)? | e. How many mm in 53 cm ? | f. <br> How many mm in 180 cm ? |
| g. <br> How many millimetres in a metre (m)? |  | i. How many mm in 4.8 m ? |
| $10 \mathrm{~cm}+27 \mathrm{~cm}=$ | k. $110 \mathrm{~cm}+50 \mathrm{~mm}=$ | I. $2,048 \mathrm{~mm}-20 \mathrm{~cm}=$ |
| m. $6 \text { metres }+50 \mathrm{~cm}=$ | n. How many metres (m) in a kilometre (km)? | 0. $4 \mathrm{~km}+2,500 \mathrm{~m}=$ |

## Advanced

Calculate the following lengths in the most appropriate unit. Make sure that you show appropriate workings out.


## Applied

How much distance do you walk (or someone you know) in a week? Calculate the total distance. Is that enough to maintain a healthy lifestyle? Do some research and find out.

## 18 Measurements

## Skills Development

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


## Advanced

Measure each of these shapes and then calculate the appropriate measurements. Scale each object by a factor of 2 and then re-calculate.


## Applied

You have baked a cake to take to school as a surprise for your friend's birthday. But you need to buy a cake box and some wrapping paper. You only have \$7.
The cake is circular with a diameter of 30 cm . It has a height of 10 cm .
At the cake shop they have a box that is $30 \mathrm{~cm}^{2}$ with a height of 11 cm for $\$ 5$.
The shop has another box that is $35 \mathrm{~cm}^{2}$ with a height of 15 cm for $\$ 6$.
The newsagent has wrapping paper of 3 metres for $\$ 2$ or 2 metres for $\$ 1$.
Draw a diagram to show the cake and the cake box.
Which combination of cake box and wrapping paper would you buy? Why so? Do the calculations to justify your answer.

## 19 Weight (Mass)

## Skills Development

Calculate the following weights (mass) in the most appropriate unit. Make sure that you show appropriate workings out.

| a. How many grams (g) in a kilogram (kg)? | b. How many grams in 4 kg ? | C. How many grams in 7.5 kg ? |
| :---: | :---: | :---: |
| d. How many g in $1 / 2 \mathrm{~kg}$ ? | e. $0.7 \text { kg + } 1.5 \text { kg = }$ | f. $0.4 \mathrm{~kg}+1 \mathrm{~kg}+500 \mathrm{~g}=$ |
| g. $6 \times 0.5 \mathrm{~kg}=$ | h. | $24 \times 250 \mathrm{~g}=$ |
| 10 kg minus $4.5 \mathrm{~kg}=$ | k. $4 \mathrm{~kg}+2 \times 2 \mathrm{~kg}=$ | I. $(250 \mathrm{~g} \mathrm{x} 3)+2 \times 1 \mathrm{~kg}=$ |
| m. How many kg in a tonne? | n. <br> How many kg in 10 tonnes? | 0. <br> How many kg in 3.8 tonnes? |

## Advanced

Calculate the following weights (mass) in the most appropriate unit.

| a. John doesn't have any <br> dumbbells so he curls 2kg <br> bags of flour 100 times for <br> each arm. Total weight? | b. If a butcher sells 50kgs <br> of chops, 100 steaks each <br> of 400g and 37 serves of <br> other meats at 1 kg each <br> what is the total weight? | c. How many of you <br> (based on your weight) <br> would equal your family <br> motor vehicle? |
| :--- | :--- | :--- |

## Applied

You are going on an overseas trip for 2 weeks and are allowed to take one suitcase with you.
a. Where might you be going?
b. What will you take with you?
c. Find out the luggage weight limit from your airline of choice.
d. What process would you use to ensure that your luggage fits within this weight limit?
e. What items might you need to both include in, and discard from, your luggage to meet this weight limit; and why?

## 20 Capacity

## Skills Development

Complete answers for the following based on fluid capacity. Make sure that you show appropriate workings out.

| a. How many millilitres (ml) in a litre? | b. How many ml in 3 litres? | C. How many ml in 6.5 litres? |
| :---: | :---: | :---: |
| d. How many ml in $1 / 2$ litre? | e. $0.5 \text { litre + } 1.5 \text { litre = }$ | $\begin{aligned} & 0.3 \text { litre + } 1 \text { litre } \\ & +500 \mathrm{ml}= \end{aligned}$ |
| g. $6 \times 0.5$ litres $=$ |  | $24 \times 375 \mathrm{ml}=$ |
| j. 10 litres minus 4.5 litres = | k. 3 litres $+2 \times 2$ litres $=$ | I. $(300 \mathrm{ml} \times 3)+2 \times 1$ litre $=$ |
| m. How many cubic centimetres in a litre? | n. <br> How many litres in a megalitre? | o. How many litres in a half a megalitre? |

## Advanced

a. Complete answers for the following based on cooking fluid capacity.


| a. Volume of a package <br> that is $10 \mathrm{~cm} \times 12 \mathrm{~cm} \times 20$ <br> cm. | b. Volume of a carton <br> that is $50 \mathrm{~cm} \times 35 \mathrm{~cm} \times 40$ <br> cm. | c. Volume of a box that is <br> $1 \mathrm{~m} \times 2 \mathrm{~m} \times 0.5 \mathrm{~m}$. |
| :---: | :---: | :---: |
|  |  |  |

## Applied

Which has more ml? 24 cans of soft drink, $6 \times 2$ litres bottles, or $20 \times 500 \mathrm{ml}$ cups. What is the total volume of each in ml and in litres? Which would be cheapest?

## 21 Division

## Skills Development

Complete the following division calculations to build your skills. Make sure that you show appropriate workings out.

| a. $12 \div 4=$ | b. $80 \div 8=$ | c. $80 \div 10=$ |
| :---: | :---: | :---: |
| d. $77 \div 11=$ | e. $120 \div 5=$ | f. $200 / 25=$ |
| g. $80 \div 2 / 10=$ | h. | i. $1000 / 25 \div 4=$ |
| $180 / 10 \div 9=$ | $2,50 \div 50 \div 4=$ | I. $144 \div 2 \div 2 / 2=$ |
| m. 120 divided by $12=$ | n. <br> 80 how many $2 \mathrm{~s}=$ | o. 10 into $1,500=$ |
| p. $83 / 4=$ | q. $99 / 11 \div 2=$ | r. $(660 \div 60) / 2=$ |

## Advanced

Calculate the following division problems and show your working out for each.

| a. $390 * 10 / 3=$ | b. 8,888 / 8/11 = | c. $15 \div 2 \div 3=$ |
| :---: | :---: | :---: |
| d. 1,000 / $50 / 10 / 2=$ | e. 1 million $\div 10,000=$ | f. $30 \div 5(-3)=$ |
| g. A bulk purchase of apples weighs 20 kg . Each apple weighs about 100 g . How many apples? | h. Have to share sevin 8 -slice pizzas betwe students. How w. shies eac' | i. Table for 8 has a bill of $\$ 270$. How much will each diner pay if they split the bill evenly? |
| Applied |  |  |
| a. Lenny has to unloa a shipment of second-hand bricks from the truck. There's a thousand bricks and his hand trolley can do 8 at a time. How many 'loads' for Lenny? |  |  |

b. Aunt Samee wants to give each of her nieces and nephews a share of $\$ 5,000$. It's a big family and there are 26 of them. She reckons $\$ 200$ each sounds right. What do you think?

## 22 Data and Information

## Skills Development

a. Put the following data in a table and arrange by alphabetical order of name.
$\Rightarrow$ Ethel: 24, 173 cm , cat, iPhone, red, steak, Prius.
$\Rightarrow$ Clarry: 74, 162 cm , dog, landline, light blue, liver, Camry.
$\Rightarrow$ Cecil: 18, 193cm, snake, Samsung, green, chicken, Mini.
$\Rightarrow$ Daphne: 44, 154 cm , rat, Nokia, purple, tofu, Valiant.

| Peoples' data and information |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Person | Age | Height | Pet | Phone | Colour | Food | Car |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |


| Kilometres run - Sep 2023 |  |  |  | Purchases | urcha | 2023 | Average |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Person | Runs | Total km | Us mer |  | \$ | Total |  |
| Frank | 7 | 28 | John | 10 | 40 |  |  |
| Frankie | 20 |  | Jack | 7 | 35 |  |  |
| Francis | 30 | 60 | Jackie | 18 | 50 |  |  |
| Frances | 14 | 49 | Johan | 7 | 150 |  |  |
| Francine | 6 | 39 | Jonni | 19 | 40 |  |  |
| Totals |  |  | Totals |  |  |  |  |


| Hours worked - July to November 2023 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Month | Hours | Shifts | Hrs/Shift | Pay | Total pay |
| July | 32 | 8 |  | $\$ 15$ |  |
| August | 24 | 6 |  | $\$ 15$ |  |
| September | 48 | 12 |  | $\$ 15$ |  |
| October | 64 | 16 |  | $\$ 15$ |  |
| November | 80 | 20 |  | $\$ 15$ |  |
| Totals |  |  |  |  |  |

## Advanced

The following data has been incorrectly inputted into the table. Fill out the blank table correctly in alphabetical order.
$\Rightarrow$ Mack worked 16 hours, at a rate of $\$ 12$.
$\Rightarrow$ Jen worked 20 hours at a rate of $\$ 18 /$ hour.
$\Rightarrow$ Vick worked 30 hours at a rate of $\$ 20 /$ hour.
$\Rightarrow$ Ngoc worked 38 hours at a rate of $\$ 15 /$ hour.
$\Rightarrow$ Lil worked 25 hours at a rate of $\$ 35 /$ hour.
$\Rightarrow$ Stan worked 2 shifts of 6 hours at a rate of $\$ 15 /$ hour.

| Employee pay table - Oct 12-18, 2023 |  |  |  | Employee pay fable - Oct 12-18, 2023 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Worker | Hours | Rate \$ | Total | Worker | Hours | Rate \$ | Total |
| Mack | 16 | 10 | \$160 | - |  |  |  |
| Jen | 20 | 18 | \$340 |  |  |  |  |
| Nick | 30 | 20 | \$600 |  |  |  |  |
| Ngoc | 40 | 15 | \$570 |  |  |  |  |
| Stan | 26 | 35 | 87 |  |  |  |  |
| Lil | 25 | 15 | 3. |  |  |  |  |
| Totals | 133 |  | . 6 | Totals |  |  |  |
| Applied |  |  |  |  |  |  |  |

Survey 5 class members using the categories shown in question 'a.' on p. 46.
Complete a table to show the data you collect.

| Peoples' data and information |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Person | Age | Height | Pet | Phone | Colour | Food | Car |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

Comment on any patterns in the data.

## 23 Bar Graphs

Skills Development
a. Complete this table based on the information from the bar graph.


| Income - October 2023 |  |
| :---: | :---: |
| Person | Total |
| Avril |  |
|  | $\$ 75$ |
| Joan |  |
| Julie |  |

b. Complete a properly labelled bar 1 stomer purchases - 2023 graph to show the number of purchases for each custome 2023.

| Jonmer | Purchases | $\$$ | Total |
| :---: | :---: | :---: | :---: | :---: |
| Jonni | 20 | 40 | $\$ 800$ |
| Ronni | 9 | 35 | $\$ 315$ |
| Vonni | 12 | 50 | $\$ 600$ |
| Honni | 10 | 75 | $\$ 750$ |
| Bonni | 4 | 40 | $\$ 160$ |

## Advanced \& Applied

a. Use the information shown on the bar graph to comment on whether each of the following statements is true or false. Give reasons for your answer.

$\Rightarrow$ Students seem to be preferring healthier lunch options.
b. Complete a bar graph for the same information based on a survey of students in your class. Write 5 clear statements that describe the data and information.

## 24 Pie Charts

## Skills Development

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

b. Answer the following questions by identifying the most likely pie chart, together with a brief explanation of the reason for your choice.
$\Rightarrow$ Which pie chart is showing one single portion at $75 \%$ and 3 other portions as $25 \%$ combined?
$\Rightarrow$ Which pie chart is showing one single portion at the same amount as the 4 other portions combined?
$\Rightarrow$ 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?
$\Rightarrow$ Which pie chart could be showing the responses to a yes/no survey? What might be the question?

## Advanced \& Applied

a. Use the information shown on the pie chart to comment on whether each of the following statements is true or false. Give reasons for your answer.

## Students' favourite sportswear brand: Oct 2023

Image:
DmitryRukhlenko/
Depositphotos.com

$\Rightarrow$ More than half preferred Adidas ars impared to other brands.
$\Rightarrow$ Added together, more studer. $P$ rera Nike and Puma than Adidas.
$\Rightarrow$ About $20 \%$ of studen rerands other than the 4 featured in the survey.

$\Rightarrow$ Everlast was the least popular of any brand.
b. Complete a pie chart for the same information based on a survey of students in your class. Write 5 clear statements that describe the data and information.

## 25 Line Graphs

## Skills Development

a. Complete this table based on the information from the line graph.

Monthly income earned: June - Oct 2023

b. Answer the following quen in us $\nabla$ information from the graph shown above, Monthly incga e rne - Oct 2023. Support your answer with evidence from the $-\&$ graph.
$\Rightarrow$ In which month was the highest income amount earned?
$\Rightarrow$ In which month was the lowest income amount earned?
$\Rightarrow$ How much was earned by the worker over the 5 months?
$\Rightarrow$ How much was the difference between the lowest monthly amount and the highest?
$\Rightarrow$ Is the worker more or less likely to earn over $\$ 100$ per month?
$\Rightarrow$ What is the overall trend indicated by the graph?

## Advanced \& Applied

a. Use the information shown on the line graph to comment on whether each of the following statements is true or false. Give reasons for your answer.

$\Rightarrow$ About 40 hours housework was completed over the 5 weeks.
b. Complete a line graph for similar information based on your own personal experiences. Write 4 clear statements that describe the data and information.

## 26 Likelihood

## Skills Development

Complete the following problems based on likelihood.


## Advanced

Complete the following situations based on likelihood.

| a. Which is a better chance? 1 in 2 or 3 in 4 | b. Which is a better chance? 7 in 8 or 4 in 5 | c. Which is a better chance? $25 \%$ or 1 in 4 |
| :---: | :---: | :---: |
| c. Which is the more likely outcome? <br> "Fifty/fifty" or "one in three". | d. Which is the more likely outcome? <br> "Better than even" or "twenty-five per cent". | f. Which is the more likely outcome? <br> "One in every hundred" or "one in every thousand". |
| g. Rank these in order of likelihood. <br> $25 \%, 50 / 50,1$ in 3 , less than a quarter. | h. Rank these n reer of | i. Rank these in order of likelihood. 75\%, almost always, barely ever, even chance. |
| i. Is this more likely C less likely to happen? Estimate a \%. "A dead set certainty!" | j. Is this more likely or less likely to happen? Estimate a \%. "I wouldn't hold my breath!" | k. Is this more likely or less likely to happen? Estimate a \%. "Just as likely as unlikely." |

## Applied

Often life is about managing risk. But you should always remember that higher rewards = higher risk. Think very carefully before answering this statement.

Many overseas tourists are afraid of Australia's deadly wildlife. But which animals in Australia are the most dangerous to humans?

## 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 0 Esonal and social activities?


How did I use and apply what 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): |  |



