VOCATIONAL NUMERACY - GENERAL **Skills Development Booklet**

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--- New: (Expected late Aug) --Vocational Numeracy General:
Skills Development Booklet
Print books, masters &
e-version masters
--- Preview sample online ---

Order Details

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

Postage \$		Total Amount (approx)	\$			
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Progress Record

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10	Chance and	Due:	7	Chance and	Due: Done:	/20	/40
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11		Due: Done:	/20		Due: Done:	/20	/40
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Progress Record

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21	Mixed Quiz:	Due: Done Areas o	f strength:	20	Mixed Quiz:	Due:	None:	/20	/40
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27	Mixed Quiz:		f strength:	20	Are We	Due:	Done: Areas to improve:	/25	/45
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28 pp.	Mixed Quiz:		f strength:	20	On The Road		Areas to improve:		/50
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20		Due: Done	: /	20		Due:	Done:	/30	/= -
29 pp.	Mixed Quiz:		f strength:		Another Day, Another \$		Areas to improve:		/50
	Harder				Another \$				%
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30pp.	Mixed Quiz: Harder	Areas o	f strength:		The Cook Off		Areas to improve:		/30
	Haruel				COOK OII				%

1 Addition and Subtraction

QUICK			
1. What is 57 plus 48?	2. What is the sum of 23, 145 and 62?	3. Total of \$175, \$1,500 and \$800.	4. Add 4.5 to 96.5.
5. What is sum of 50, -25 and 75?	6. Add sixty to 1,225.	7. Total of 4.5kg and 300 grams.	8. Subtract 32 from 89.
9. What is 178 minus 54?	10. Subtract \$950 from \$1,250	1. 1. 2. Avay 1.2.3 am 58. c	12. Subtract minus 15 from 40.
13. Take away thirty- five cents from 1,000 cents.	Suotra Oso ml from 3 lit. es.	15. Add 20 to 45, subtract 15, then subtract 5.	16. Take away 30 from 100, add 25, subtract 10 and add 15.
17. Add \$250 to \$1,000, subtract \$100, then subtract \$75.	18. Subtract 3.5 from 20.5, add 5.3, subtract 2.1, then add 4.4.	19. Add 35 to -20, subtract 10, add 15, then minus 5.	20. Subtract 200 from 800, add 140, subtract 50, then add 75.

a. How much change from b. If you add 2.5 litres to c. A courier run has 5 trips of \$20 for 7 cans of cola at \$2.20 each, and a juice at 3 km and 2 trips of 7.5 km 1,400 ml and top up with 600 ml what is the total and a final trip of 12.25 km what is the total distance? liquid volume in litres? e. A farmer has 300 chickens, f. d. If a company spends A bakery uses 200g of \$45k on salaries, \$15k 200 ducks, and 100 geese. sugar, 300g of flour, and 250g of butter for a batch cookies. If the recipe is on utilities, and \$10k on If 50 chickens and 30 ducks are sold, how many birds materials monthly, what are the total monthly are left on the ripled, how much of each expenses? ingredient is needed? A bookstore has 125 fiction A sports team scores 75 books, 95 non-fiction points in the first half and books, and 50 children workers. 85 points in the second books. If 30 fiction (o eachers and 3 adminhalf of a game. If they lost ative staff retire, how children's books are so by 20 points, what is their how many books remain? many employees are left? opponents final score? h. A construction project requires 3 tons of sand, 2.5 tons of gravel, and 4.5 tons of cement. If the project is scaled up by 200%, how much of each material is needed in total?

2 Multiplication and Division

QUICK			
1. Multiply 57 by 3.	2. What is 23 times 5?	3. Find the product of \$175 and 4.	4. Multiply 4.5 by 6.
5. What is 50 times -2?	6. Multiply sixty by 20.	7. Find the product of 4.5kg and 2.	8. Divide 89 by 4.
9. What is 178 divided by 2?	10. Divide \$1,250 b \$50.	1. SigNS8.5 () S.	12. Divide 40 by 0.5.
13. What is one thousand cents divided by 25 cents?	Divíde visus by 0.25 litres.	15. Multiply 20 by 3, then divide by 2.	16. Divide 100 by 5, multiply by 4, then divide by 2.
17. Multiply \$250 by 4, then divide by 10.	18. Divide 20.5 by 5, multiply by 3, then divide by 2.	19. Multiply -20 by 3, then divide by 2.	20. Divide 800 by 10, multiply by 3, then divide by 5.

a. A factory produces 500 b. A car travels at a speed of c. A machine in a workshop units of a product each 80 kilometres per hour. can make 120 parts in an day. How many units are How far will it travel in 5 hour. How many parts can produced in 30 days? hours? it make in 8 hours? d. A construction crew can e. If a printer prints 30 pages f. A farmer collects 75 eggs each day. How many eggs build 5 metres of road per minute, how many e collected in a month of pages can it print in 2.5 each day. How long will it take to build a 200m road? hours? i. If a bus can carry 50 If one packet of seeds passengers, how many covers 3 square metres and a garden is 45m2, how buses are needed many packets are needed to transport 2,000 How far can the passengers? ravel on a full tank? to cover the garden? h. A work contract for 2 plasterers will require 8 hours work per day over 4 days. If the pair is paid \$600 per day, how much is earned by each worker in total and how much does each worker earn per hour?

3 Order of Operations

QUICK			
1. Add 57 to the	2. Multiply 23 by 2,	3. Add \$175 to	4. Multiply 4 by the
result of 48 divided	add the result of 145	\$1,500, divide the	result of 96.5 minus
by 3, then subtract 10	minus 45 divided by	result by 5, then add	45.5, then add 10
times 2.	5.	\$800 times 2.	divided by 2.
5. Add 50 to 25, multiply the result by 2, then subtract 75 divided by 3.	6. Add 60 to the result of 1,225 divided by 5, then subtract 100.	7. Multiply 4.5 by 1,000, divide the result by 300, then add 2.	8. Subtract 32 divided by 8 from 89, then add 15 times 3.
9. Calculate the result	10. Divide \$1,250 b	1. Sign 64 by the unit of 12.27 and a ches whereply by 4.	12. Subtract 15 from
of 178 minus 54 by 2,	the sum of 50 as		40, multiply the result
then add 10 divided	100, then movingly		by 2, then add 30
by 5.	by 2.		divided by 5.
13. Divide 1,000 by the sum of 35 and 5, then multiply by 10.	4. Multi, 43 py 1,300, divide the result by 250, then subtract 2.	15. Add 20 to the result of 45 times 2, then subtract 15 divided by 5.	16. Subtract 30 from 100, multiply by 3, then add 30 divided by 3.
17. Add \$250 to	18. Divide 21 by the result of 3.5 times 2, add 5.3 and subtract 2.1.	19. Subtract 20 from	20. Divide 800 by the
\$1,000, multiply by		35, multiply the result	result of 200 by 2,
2, then subtract 100		by 3, then add 15	add 140 and subtract
divided by 5.		divided by 5.	50.

c. A party planner bought 7 a. A gym charges \$20/ month b. Four friends share 3 pizzas for 6 months, then offers balloons at \$3 each, then equally. How much pizza a \$15 discount. How much does each friend get? bought 2 packs of balloons does the membership cost containing 5 each. How for 6 months? many balloons in total? d. A store sells 7 shirts for e. A class sold 5 packs of A group hiked 5km each day for 4 days, then hiked cookies for \$4 each, then \$15 each and gives a \$20 nother 15km over the xt 2 days. How many km discount for every 5 shirts used the money to buy 3 purchased. How much markers costing \$2 each. does the store earn from How much mo did they hike in total? selling the shirts? class have le A gamer scored 12 points Huot runs 4 km every day in the 1st level, tripled b for 5 days, then swims 3 score in the 2nd level. km on Saturday and 2 km กัน 0.75l of low paint. Now many lost 6 points in the (• e on Sunday. How many km el. How many points and he ml cans do you need did she exercise in total? have after the third level? to pour the new colour? h. Each student paid \$10 for an excursion and \$4 to contribute to the pizza lunch. If there were 3 classes of 20 students each and the total cost of the trip and lunch was \$600, how much does the school need to subsidise?

4 Fractions and Decimals

QUICK			
1. Add 3/4 and 1/2.	2. Subtract 3/6 from 3/4.	3. Multiply 2/5 by 3/8.	4. Divide 3/4 by 2/3.
5. Add 1/3, 1/2 and 3/4.	6. Subtract 7/8 from 5/4.	7. Find 2/3 of 5/6.	8. Add 2.5 and 1.75.
9. Subtract 3.6 from 8.2.	10. Multiply 4.3 by 0.5.	1. vio 6.4 k.	12. Add 0.75, 0.25 and 1.5.
13. Subtract 3.9 from 5.2.	. Caicula 4.4 of 17.5	15. Add 3/4 and then 1/2, to 2.5.	16. Subtract 1.25 from 3/2.
17. Multiply 1.5 by 3/4.	18. Divide 4.5 by 1/2.	19. Add 0.6 to 1/3, and then multiply the result by a half.	20. Subtract 7/8 from 3.875, then divide the result by a half.

a. A shop marks-up it's b. Brucie gets a discount of c. A store buys an item chocolate blocks (cost 15% on his purchase of for \$80 and sells it for \$180. How much is that? \$2.50) by 100%. What is \$120. What is the profit the sale price? percentage? d. Sarah deposits \$5,000 in e. A city's population is f. A footballer increases their a bank account that earns 50,000. It grows by 5% in 10 disposals by 50% next ome and another 50% the after (compared to 4% annual interest, What the first year and 7% in will be the total amount in the second year. What is the start)? What are these her account after 1 year? the population years? new amounts? A couch is priced at \$800. A car's value decreases by It goes on sale for 10% off 10% each year. If the car During a promotion, as was worth \$25,000 when er 8% raise additional 5% is tak of second year. What is it was new, what will it be the sale price. What is the salary after two years? worth after 3 years? final price of the sofa? h. A factory produces 1,000 units of a product in January. In February, production increases by 20%, and in March, it increases by an additional 15% from February's production. How many units are produced in March?

5 Percentages

QUICK			
1. What is 20% of 150?	2. Convert 3/5 to a percentage.	3. How much is \$1,500 x 40%?	4. How much discount is 15% on an item priced at \$200?
5. What is 65% of \$2,000?	6. Calculate the sum of 20% of 50, and 30% of \$150?	7. What is one hundred percent of zero?	8. If 5 people in a class of 25 barrack for Geelong, then what percentage don't?
9. If 40% of the 120 students are female, how many males are there?	10. A store offers a 15% discount. If an item originally cost \$80, what is the discounted role?	Accelent inally faceured in 120 is an 120 is a with a less of color. What is the sale price.	12. If a \$50 item has a mark-up of 50%, what is the selling price?
13. An electronic device originally costs \$500. It is on sale for 15% off. What is the discounted price?	14. A. Trobuye of proportion 15 for 55 for all 12 for 50 f	a factory poduction by 25%, and that cost is \$400, what is the final price?	16. A retailer marks up the cost price of a shirt by 50%. If the cost price is \$30, what is the selling price?
17. A jewellery store marks up its items by 35%. If a necklace's cost price is \$500, what is the selling price?	18. If a product costs \$80 before GST, what is the total cost including GST?	19. If you buy a laptop for \$1,500 (GST inc.), how much GST did you pay?	20. If you buy a pair of sneakers for \$300 plus GST, and these have been marked up by 100%, then what was their original cost to the seller?

- In a class of 20 students, 30% passed with distinction. How many students passed with distinction?
- b. A shop offers a 10% discount on all purchases above \$50. If a customer buys items worth \$70, what is the final amount they need to pay?
- c. A store offers 30% off on shoes. If a pair of shoes is priced at \$90, what is the discounted total price for a customer who buys 2 pairs.

- d. A car dealership marks up its vehicles by 22.5%. If the dealership bought a car for \$20,000, what is the selling price?
- e. A restaurant bill totals \$200, before GST. How much GST is to be added and how much is the finalbill?
- f. A cafe gives a free coffee after every 5 purchased as part of it loyalty scheme. Inat total discount is this?

- j. A computer originally costs \$1,200. It is marked up by 25% and then sold with 15% discount. What so he final selling price?
- Sor \$2.6 Id San Ac up by 50% It Se GY rate is 10%, what is the sening price is auding GST?
- I. A jacket originally priced at \$120 is marked down for clearance by 20%, and a further 5% for club members what is the sale price for a club member?

h. A \$10,000 loan contract is set at 1% simple interest per month. The borrower, Fredsy pays off \$1,000 off the loan at the end of the year. How much is owed at the end of the first year?

6 Data and Information

QUICK			
1. Find the mean of the following test scores: 85, 90, 75, 88, 92.	2. Calculate the median of the ages of five siblings: 10, 12, 9, 11, 13.	3. Determine the mode of the number of pets owned by five families: 2, 1, 3, 2, 2.	4. Compute the mean of the heights of six students: 160 cm, 155 cm, 165 cm, 158 cm and 162 cm.
5. Find the median of the number of books read by four students: 2, 5, 3, 4.	6. Determine the mode of the test scores of six students: 85, 90, 75, 88, 90, 92.	7. Calculate the mean of the weights of seven rissoles: 120 g, 130 g, 125 g, 115 g, 135 g, 140 g & 110 g.	8. Calculate the range of temperatures over seven days: 18°C, 20°C, 17°C, 22°C, 16°C, 21°C, 19°C.
9. If Jahoody earns \$20/hour and works 8 hours a day, calculate her daily wage.	10. Determine Sal's weekly wage if the work 40 hours and earn \$1.87 km.	A. Complete Johnshir Irani Vage if to explosion for working 20 hours.	12. Calculate the average cost of three items: \$25, \$30, \$35.
13. Determine the average price of five shirts: \$20, \$18, \$22, \$25, \$21.	1 Calculate re- tota duration of five movies: 90 minutes, 120 min, 105 min, 95 min and 110 min.	15. Determine the total time spent on four projects: 15 hours, 20 hours, 18 hours and 25 hours.	16. If the mean salary of a team of six employees is \$50k per year, calculate the total annual salary of the team.
17. Determine the median age of a group of seven team members if their ages are: 18, 19, 17, 20, 18, 19, 16.	18. Calculate the mode of the number of goals scored by a soccer team in five matches: 2, 3, 1, 2, 4.	19. If the range of temperatures over seven days is 10°C, and the lowest temperature was 15°C, what was the highest temperature?	20. Determine the average duration of three songs if their lengths are: 3:10, 4:20 and 5:30.

a. Here is the sales information from a YigBits Canteen for a Monday. Enter this data into the table and complete relevant totals.

Pies 23 @ \$5, hotdogs 31 @ \$4, vegie dogs 15 @ \$4, hot chips 50 @ \$4 egg sandwich 12 @ \$5, vegemite sanger 12 @ \$4, salad rolls 17 @ \$6, tuna salad 9 @ \$7, donuts 15 @ \$3, cake slices 10 @ \$4, chocolate bars 38 @ \$3, potato crisps 20 @ \$3 soft drink 31 @ \$3, juice 14 @ \$5, flavoured milk 14 @ \$6, water 18 @ \$2.

Item									
Price \$									
Sales									
Total \$									

 b. Construct a properly-labelled pie chart to show the % category proportions based on total quantity sales of: hot food, cold food, snacks and drinks.



c. Construct a properly-le e var chan c show the total \$ catron, sale coas with hot food, cold food, sacks and wiks. Instruct a properly-labelled line graph to plot total daily sales over 5 days. Tuesday: sales down 10%. Wednesday up 15%, Thursday down 5%, Friday up 25%. (Note: percentages refer to previous day).

7 Quantities and Measures

QUICK			
Convert 3 metres to centimetres and then add 150 centimetres.	2. Subtract 45 centimetres from 2.5 metres.	3. Multiply 1.2 metres by 100 to convert to centimetres.	4. Divide 3,600 cm by 6 to get equal lengths expressed in metres.
5. Add 2.5 kilometres to 1,500 metres.	6. Convert 500 grams to kilograms and then add 0.75 kilograms.	7. Subtract 0.25 kilograms from 1.8 kilograms.	8. Multiply 2.5 kg by 2 and then convert to grams.
9. Divide 1,500 grams by 5 and then convert to kilograms.	10. Add 750 grams, 375 grams and 2 kilogram 2.	11. Sovert 3 leastermily rules a considered with the same of the s	12. Subtract 300 millilitres from 1.5 litres; and then top up 0.4 of a litre.
13. What is 0.75 litres plus 1.5 litres in millilitres?	.4. Divid. 4.900 mil. itres into 6 equal lengths.	15. Add 1.2 litres to 750 millilitres.	16. If a recipe requires 250 grams of flour and 150 grams of sugar, how many grams of dry ingredients are needed in total?
17. Convert 400 millilitres of milk to litres and then add 0.25 litres of cream for a recipe.	18. How many litres is 24 cans of 375 millilitres?	19. If a cake recipe calls for 3 eggs and each egg weighs 60 grams, how many grams of eggs are needed in total?	20. Convert 1.5 kg of sugar to grams and then divide it equally into 3 batches.

c. If a job requires 45 800cm a. A recipe requires 50 grams b. Marni bought 1.75 kg of of butter, 0.3kg of melted apples, 2.5 kg of oranges, lengths of timber how and 650 kg of grapes. How chocolate, and 150 g of many metres in timber in icing sugar. What is the many kilograms of fruit did total? total weight of these? she buy in total? d. A swimming pool is filled e. If a water tank can hold f. A baker uses 250 grams of with 5.75 cubic metres of flour for one loaf of bread. 2,000 litres of water and www.much flour is needed water. If 20% of the water it is filled at a rate of 250 evaporates, how much litres per hour, how long 50 loaves? water is left in the pool? will it take to f What is the total length What is the average weight of cloth for 2 x 1.5m, add of a 15-player rugby team 50mm each for hems weighing 1,650kg? اند. litre jug, another 75mm eack 00ml in spillage? h. A worker does these shifts: Monday 08:30 to 12:30; Tuesday 09:30 to 17:30 (w/45 minute break); Wednesday 10:30 to 8:30 w/75 minutes of breaks); Friday 13:30 to 22.15 (w/45 minute break). What is the total time spent working?

8 Rates and Relationships

QUICK			
A car travels at an average speed of 60 km/h. How far can it travel in 4 hours?	2. A train travels at 80 km/h. How long does it take to travel 320 kilometres?	3. A cyclist covers 15 km in 1 hour. What is their average speed in km/h?	4. A plane flies at 800 km/h. How long does it take to fly 2,400 kilometres?
5. A patient's heart rate is 80 beats per minute. How many beats does their heart make in 15 minutes?	6. If person takes 20 breaths per minute, how many breaths do they take in an hour?	7. If a car travels at an average speed of 60 km/h and a bike travels at 15 km/h, how much faster is the car in km/h?	8. If a recipe calls for 2 cups of flour and 1 cup of sugar, what is the ratio of flour to sugar?
9. If 1 cm on a map represents 25,000 cm in real life, what is the ratio of the map distance to the real distance?	10. If 50% of people have brown had, what is the react of brown hair to differ other hair a lowes.	11 1 1 in on its mip in dresent 0,000 whes in resente, what is the latio of the mip distant to the left distant of the left di	12. A model of a building is 1:100 scale. If the real building is 50 metres tall, how tall is the model in cm?
13. If a recipe is scaled up by a factor of 3, and originally called for 2 cups of sugar, how much sugar is needed now?	4 people and equires 250 grams of rice, how much rice is needed to serve 12 people?	15. If a bike travels at an average speed of 24 km/h and an e-scooter at 12 km/h, how much faster is the bike compared to the e-scooter?	16. A business has a profit margin of 25%. If its revenue is \$100,000, what is its profit?
17. If a bottle of medicine contains 120 ml and the dosage is 5 ml per dose, how many doses are in the bottle?	18. If a factory produces 500 units in 8 hours, what is its production rate in units per hour?	19. If a model car is designed at 76 times smaller than the real car, then what is the scale ratio of the model?	20. If a train travels at an average speed of 100 km/h and covers 300 kilometres, how long does it take to reach its destination?

c. A car travels 360km at an a. A recipe calls for 1 kg of b. If the genders of a class flour and 500 grams of are: 4 males, 6 females and average speed of 90 km/h. How long does it take to butter. If you want to make 2 non-binary, then what twice the amount of the is the ratio of males to complete the journey? recipe, how much flour females to non-binary. and butter do you need? e. If a packet of medication d. A cafe has a total expense f. A factory has a reject rate ratio of 75 cents for has 28 tables, and they are rate of 2% per day. If it wakes are 500 products, w many rejects would each dollar of sales. If its prescribed to be taken 1 revenue is \$200,000, how every 8 hours, how long much is its profit? before the prea ikely occur in a 5-day runs out? week? The scale of a model house A person runs at 10 km/h and walks at 5 km/h. If is 1:50. If a window on the they cover a distance of model is 2 centimetres rany mas are needed to prokm in 3 hours, split only wide, how wide is the Ze 300 units in the same between walking and actual window? running, how much time time? did they spend running? h. A car commuter drives 5km to the CBD in peak hour and leaves at 8:30am. Average speed is 15km/h. A cyclist next door leaves for the same destination at 8:35am and travels at an average of 25km/h mainly on bike paths. Who gets there first?

9 Dollars and Sense

QUICK			
1. Total \$75.50, 24.99 and \$15.	2. Total \$2,500, 750 and \$75.	3. Calculate \$100 less \$44.45 less \$22.20.	4. What is 7 times \$15.95?
5. What is \$300 divided by 15?	6. How many cents are in \$3.57?	7. How many dollars are in 1,465 cents?	8. In dollars, what is 88c + 99c + 111c + 12c?
9. A store sells a chair for \$150 and a table for \$250. If you buy both items, what is the total cost?	10. You receive a gill card with \$100 cm and spend \$50, key then \$18 twill row much is left with the gift vitue.	11 Sloviate in the talk of its of the social	12. You save 10% of your \$500 monthly income. How much do you save each month?
13. A charity event raises \$5,000 from ticket sales and \$2,500 from donations. What is the total surplus?	ive f you by a titem for \$25 and another for \$12.95 and pay with a \$50 note, how much change do you receive?	15. Zane earns \$30 per hour and works 16 hours for the week. How much does he earn in a week?	16. Zane's 16 hours consist of 1 full time shift; and 2 equal casual shifts of how many hours?
17. How much is \$3 x 5 plus \$5.50 x 11?	18. If you buy 3 pizzas at \$12 each and a drink for \$4.50, how much change from a \$50?	19. How much is \$1 million x 1/2 plus \$1 million by 1/4?	20. How much is annual salary of \$130,000 expressed per week?

a. If you spend \$35 on b. If a shirt costs \$30 and is c. Lalee earns \$20 per hour groceries, \$15 on petrol, discounted by 20%, and and works 4 hours a day and earn \$50 from you pay with a \$50 bill, for 5 days. How much does babysitting, what is your how much change should she earn in a week? net gain or loss? you receive? d. Renovating a room costs e. An excursion costs \$30 f. The cost of making \$50 per m^2 . If the room is 5 per student. There are 25 hotdogs is: dog 40c, roll Oc, cheese 10c, onions & sauces 10c. What students in one bus and 20 metres long and 4 metres wide, how much will it cost in other. How much does to renovate? the excursion is cost the 20 dozen hotdogs? Salavah earns \$25.50 per Lionel is a an adult casual hour as a hairdresser. Hg and earns 25% more than Salavah's wage. How much much is her weekly wa in do they for a 40-hour week? for 20-hours casual? our week? h. A factory packs 24 toys in a box. How many toys are in 75 boxes? The average wholesale price per toy is \$2. What is the total wholesale value of the stock?

10 Chance and Probability

QUICK			
1. What is the probability of tossing a head?	2. What is the probability of tossing a tail?	3. What is the probability of tossing a tail then a head?	4. What is the probability of tossing 3 heads in a row?
5. What is the probability of spinning a 6 on a 6-sided die?	6. What is the probability of spinning a 36 on a two 6-sided dice?	7. Which probability is higher: one in four, or one in two?	8. Which probability is higher: two in five, or two in three?
9. Which probability is higher: 9 out of 10, or 7 out of 8?	10. Which is an even chance? 3 in 6, or 4 in 7?	Ayer Nums 7 Normal Stand Judgan Jes. Walt is the probability of pully alexang a reamance?	12. A bag contains 8 yellow balls and 4 green balls. What is the probability of randomly selecting a green ball?
13. In a deck of cards, what is the probability of drawing a heart?	p. Vability deswing a two.	In a deck of ards, what is the probability of drawing the Ace of Spades?	16. Which has a lower probability? Flipping heads on a coin, or rolling a 5 on a 5-sided die.
17. A spinner is divided into 4 equal sections numbered 1 through 4. What is the probability of spinning three 3s in a row?	18. A box contains 10 chocolates, 5 of which are dark chocolate and 5 are milk chocolate. If you choose 2 chocolates, what are chances that both are dark?	19. What's a better chance? One in a million, or 1 in billion?	20. What's a better chance? Seeing a 'blue moon', or seeing Halley's Comet?

a. What is the probability of c. If you roll a fair six-sided b. What is the percent tossing a coin and getting 3 die, what is the probability chance of tossing a coin heads in a row? and getting 4 tails in a of rolling a number greater than 4? row? d. A spinner is divided into 5 e. The probability of rain on f. If you roll a fair six-sided equal sections of red, blue, die, what is the probability any given day in a certain rolling a number less green, yellow and orange. city is 20%. What is the What is the probability of chance it will not rain n 4? landing on blue or red? tomorrow? g. A bag contains 4 red If you draw a card from a marbles, 3 blue marbles deck of 52 cards, replace and 5 green marbles. it, and draw again, what is If a marble is drawr. the probability of drawing ut replazement. random, what is the at is the probability a heart both times? probability it is blue? that both balls are black? j. A pair of role-players needs to first roll a 7, and then the 2nd player needs to roll a 2 in order to beat the dragon master. Player 1 is using an 8-sided dice. Player 2 is using two 6-sided dice. What is the probability that they roll these 2 numbers and go on more adventures?

11 Mixed Quiz

QUICK			
1. If a journey takes from 10:30 to 11.17 what is the total duration?	2. What is the mean average of \$22, \$33, \$55 and \$55?	3. What is 15% of \$40,000.	4. Convert 400 grams to kilograms.
5. How much will it cost to fill a 70 litre tank at \$1.90 per litre?	6. What is 1.5 litres in millilitres?	7. If it takes a worker 20 minutes to assemble a flatpack table, then how long will it take to assemble 8?	8. Add 98, 45 and 102.
9. Find the median of \$45, \$60, \$75, \$90 and \$105.	10. What is the total weight of 15 packab seach weighin 44 v	1. Names 2/3 Als	12. If a general admission ticket is \$90, and the price of a seat is 80% more, what is the seated price?
13. What is the median average of \$700, \$425, \$680, \$804 and \$575?	How more will it cost to fill a .0 litre tank at \$2.10 per litre?	15. How long is a trip from 12:45 to 1:30?	16. How much GST needs to be added to a GST exc. price of \$150?
17. Which is a higher probability? A 1 in 2 chance, or a 1 in 3 chance?	18. How much is 330 minutes in hours?	19. If a \$240 bill has to be split evenly 4 ways, then how much will each diner pay?	20. If a delivery takes 42 minutes and leaves at 2:33pm, when does it arrive?

a. If a group of 3 workers is b. If you add 2.5 litres to c. If a chef adds 2.5kg of paid \$630 for a 3-hour 1,400 ml and top up with mince to 600 grams, and job, how much does each 600 ml what is the total then another 0.4 kg what worker get per hour? liquid volume in litres? is the total in grams? d. A courier run has 5 trips of e. How much change from f. What is the total cost for a 3 km and 2 trips of 7.5 km catered meal for 5 staff? \$20 for 6 cans of cola at 7:ntre = \$10, main = \$17, 2:ssert = \$12, drinks = \$9. and a final trip of 12.25 km \$2.20 each, and a juice at what is the total distance? g. What is the total perim-If a worker starts at 08:30 eter of two rectangular, has a 45 minute break fences that share a 4.5 from 12:15 to 13:00 and w much did side? One fence ext ther 2 coffees (which finishes the work day at back 3m and the large re long blacks) cost in 17:45 how many hours do one extends back 6.5m. total, and each? they work in that day. j. Tim works as a market delivery driver. His standard wage is \$30 per hour. Overtime is paid at 50%. He also gets a 75% shift rate for half of his daily 8-hours to reflect his early

start. How much does he earn for a 40-hour week plus 10 hours overtime?

12 Mixed Quiz

1. How much GST needs to be added to a GST exc. price of \$750? 5. If 5 cans of Boiks	2. How many litres are used per 100 km at a rate of 10 litres/ 100km?	3. An apprentice earns \$26,000 per annum; so how much per week? (52 weeks) 7. What is the sum of	4. What is 250 grams in kg? 8. Convert 800
baked beans cost \$10 in total, then will much will 7 cost?	to millimetres.	90 + 110 + 45?	millimetres to metres.
9. A cashier's award pay rate is \$30/hour. Casuals get 25% extra. How much extra is this?	10. What is 60 + 1. x 9?	1. What is the Near of a victangle ith this of 20km x 25cm.	12. How much in total for 5 bread loaves each @ \$3.95?
13. Calculate 20 times \$40.	What is a darea on triangle with a base of 10cm and a height of 15cm?	15. How many grams are in 3.75 kilograms?	16. Calculate the area of a circle with a radius of 8cm.
17. What is 12 times \$0.35?	18. What is the circumference of a pizza with a diameter of 30cm?	19. What is the perimeter of a rectangle measuring 7m by 4m?	20. Calculate 14 times 25.

b. A phone contract is \$12.50 c. If a car travels 240 km in 4 a. Calculate \$25 times minus 10, plus \$20 times 20. a week over 12 months. hours, what is its average How much in total? speed in km per hour? d. A farmer has 220 hectares e. A shopkeeper sells an item | f. A mocktail recipe requires of land and wants to plant for \$120, making a profit 3 parts of juice to 2 parts f soda water. If you want make 2 litres of the wheat on 1/5 of it. How of 20%. What was the cost many hectares will be price of the item? used for wheat? mocktail, how much juice and soda do you need? g. If a runner completes A gardener planted 3 rows 15km, takes a rest, runs of flowers with 5 flowers another 10km, rests as in each row, then added 6 งบ tickets on and runs all the way more flowers in another 3 ay. If 30 rickets are rehow much distance ha ided, how many tickets rows. How many flowers they covered in total? were sold in total? did the gardener plant? j. A workshop has 15 participants in the morning session and twice as many in the afternoon session. If 20% more participants join for the evening, how many participants are there in total?

13 Mixed Quiz

401011			
1. A delivery takes 35 minutes. If the courier leaves at 07:30 when do they get back?	2. How long is a work shift from 09:15 to 14:30 without breaks?	3. Find the sum of 7.5, 1.25 and 3.75.	4. What is 4 minus 2.5 plus 0.75?
5. If a bill of \$360 is to be evenly divided among 6 people, how much does each pay?	6. Calculate 50 + 20 x 10.	7. Which is a higher price? A \$150 item then discounted by 20%, or a \$180 item discounted by 1/3?	8. Find the median of \$50, \$60, \$70, \$80 and \$90.
9. Subtract 400 from one thousand and write your answer in numbers.	10. At what degret is 'Northwest' (Compasy)	1. What is the permeter of catangon arroard measuring 4.47 x 3m?	12. Convert 500 grams to kilograms.
13. If a train travels at 80km/h for 120 minutes, how far does it travel?	1 Now many lange due for \$52 purchase and a \$34 purchase paid with a \$100 bill?	15. How many litres are consumed for 200 km at a rate of 9 litres/100km?	16. What is the perimeter of a playing court measuring 24m x 20m?
17. What is the sum of 6.4, 3.6 and 8.2?	18. What is 2,250 ml in litres?	19. Which is a lower probability? A 2 in 6 chance, or a 1 in 5 chance?	20. What is the budget outcome with \$1,600 revenue and \$1,650 expenses?

a. Ninety-six divided by six c. Sixty-three dollars minus b. A pump can move 500 \$118, plus fifteen times litres of water in 10 plus twenty minus fifteen minutes. What is the flow four dollars. rate in litres per minute? e. Lisa bought 8 packs of d. To make lemonade, water f. A take-away uses 7.8 kg is added to concentrate in glitter for \$2.75 each, then of potatoes each day or chips. How many ograms are used in a a ratio of 4:1. If you have used a \$5 loyalty reward. 2 litres of concentrate, How much change did she how many litres of water get from \$20? o and a half day trading should you add? week? g. A vinyl 'single' record If a car travels 240 plays at '45' revolutions kilometres in 4 hours, per minute. How man what is its average speed revolutions for a sc in kilometres per hour? e in 20 150 seconds? j. Mike bought 6 apples at \$0.85 each, 3 oranges @ \$1.10, 3 kiwifruit each at \$1.25 and 3 punnets of raspberries at \$5 each. How much did he spend in total? How much change from \$50?

14 Mixed Quiz

1. What is the result of multiplying 2,000 by \$3.50?	2. What is 35% of \$650?	3. Calculate the difference between 7.5 and 2.3.	4. How much will it cost to fill a 60 litre tank of diesel at \$1.60 per litre?
5. Find the product of 300 and \$2.50.	6. What is the cost to fill a 50 litre tank at \$1.95 per litre?	7. Convert 360 minutes to hours.	8. Calculate 25% of \$320.
9. If lunch includes a burger for \$7, a shake for \$2.50, and fries for \$3, what is the total cost?	10. What is the amount of GS, included in a xix / \$275;	10 What is the value of a back with a crisic secon, 2 critical and sorm?	12. What is the area of a circle with a radius of 5cm?
13. Which is cheaper: a \$70 item after a 25% discount or a \$90 item after a 40% discount?	1 Now many lange needed or a \$21.50 purchase paid with a \$50 bill?	15. Calculate the earnings for 50 hours at \$18 per hour.	16. What is 4.8 metres in millimetres?
17. What is the mode of the numbers 5, 7, 7, 9 & 10?	18. How much change would need to be given for a purchase of \$66 and \$22 from a \$100 note?	19. Which is more likely: a 1 in 5 chance or a 1 in 10 chance?	20. How much GST is in a GST inc. price of \$1,100?

c. Twenty-three plus 111 a. A student scored 75, 80, b. If a cyclist rides at a speed of 18 km/h, how long 85, and 90 on four guizzes. times eight divided by What is the average score? will it take to travel 36 four. kilometres? d. A baker makes 50 loaves e. A TV is initially priced at f. To make orange juice, of bread, 40 cakes and 30 \$1,200. It first goes on water is added to oncentrate in a ratio 3:1. How many litres pies in a day. If it sells 40 sale for 15% off, and then loaves, 28 cakes & 18 pies; there is an additional 10% and donates 7 loaves and off the discour of water are needed to mix with 4 litres of 10 cakes, how many baked What is the goods are left? oncentrate? g. A vinyl LP record plays A sloth moves at a speed at '33' revolutions per of 0.02 metres per second. minute. How many How far does the sloth n each revolutions for a sctravel in 3 hours? , how much money 210 seconds? es she have left in her grocery budget? j. Each delivery a courier spends 4 minutes getting in and out of the van and making the 'drop'. If they do 100 deliveries in 10 hours, how much time did they spend 'not driving' per day, and for a 5-day week?

15 Mixed Quiz

QUICK			
1. What is 680 grams in kg?	2. How much total pay for 40 hours @ \$32/hour?	3. At how many degrees is 'East' on a compass?	4. How much is 1 and a half hours in minutes?
5. How much GST is in a GST-inclusive price of \$275?	6. Calculate the total pay for 25 hours of work at \$19 per hour.	7. If 4 cans of paint cost \$88 total, what is the cost for 5 cans?	8. Calculate the product of 15 and \$12.
9. Express one fifth as a percentage.	10. Find the area of rectangle with same measuring 25 kin by 30cm.	1. Notate 2 Notate 2 Notate 5 1. To	12. Convert 3.5 litres to millilitres.
13. What is 35% as a decimal?	is a cater: 1 M 3 or 1 in 4?	15. How much is 180 minutes in hours?	16. What is the result of 1/4 + 3/2?
17. At how many degrees is 'North' on a compass?	18. What is \$650 minus 5 x \$40?	19. What is 1,500 ml in litres?	20. If a car travels at 50km/h for 30 minutes, how far has it travelled?

a.	If the price of a product increases from \$50 to \$60, what is the percentage increase?	Eighty-five divided by five plus forty minus seven	C.	If a pastrychef makes 360 cupcakes and packs them in boxes of 12, how many boxes are needed?
d.	A term deposit of \$10,000 earns 5% interest compounded annually. How much is in the account after 2 years?	A cyclist travels 12.5 km on the first day, 15.75 km on the second day, and 9.6 km on the third day. How many km in total		A caryard has 40 sedans, 30 SUVs and 20 trucks. If 5 sedans and 10 SUVs are d, how many vehicles remain in the inventory?
	A store sells 15 bottles of juice each hour at \$4.50 each. How much in total juice sales over 10 km s.	wixing of arrests and apples in a lank of a 2. If you let be oranges, how many a ples should you use?		The number of books read by students in a week is: 1, 2, 3, 4, 5, 5, 3, 2, 4, 3. What is the most frequent number of books read?
j	A person saves \$500 in Janu \$200 in April and half as mu			

16 Mixed Quiz

QUICK			
1. A team of 5 workers is paid \$400 for a 2-hour job. How much is each paid?	2. Calculate \$800 less \$175 less \$40.	3. Find the area of a rectangle with sides measuring 35cm by 20cm.	4. Calculate 5 times (\$80 plus twenty dollars).
5. What is 1/2 + 1/3?	6. Find the volume of a cube with a side length of 10cm.	7. What is one third as a percentage?	8. What is the volume of a packing box with dimensions 80cm, 20cm and 30cm?
9. Convert 750 millilitres to litres.	10. Subtract 125 twice from 60%.	11 Which is lead libely is in 6 mince win Arhance?	12. What is the total cost for 9 buns priced at \$3.75 each?
13. What is 25% as a fraction?	What is or new pice after 15% discount on \$80 shoes?	15. If a car travels at 50km/h for 90 minutes, how far has it travelled?	16. What is the result of 5/6 + 1/3?
17. If a meal includes a salad for \$4, a sandwich for \$5.50, and a drink for \$2.50, what is the total cost?	18. What is the area of a rectangle with sides of 50cm x 25cm?	19. Calculate the area of a tabletop that measures 2.5m by 1.8m.	20. If dim sims are \$1.50 each, or 4 for \$5, what is the cost of 10 dimmies?

- c. If one textbook costs \$44 a. Six hundred and seventyb. A pizza is divided into 8 equal slices. If you eat 3 (GST inc.) and a school six minus 222 plus thirty times two slices, what fraction of the needs 70 textbooks, how pizza have you eaten? much will it cost in total? d. In a survey of 1,000 e. An ice cream stand sells 50 f. If Taylor Swift's 2024 people, 40% preferred tea, album, 'The Tortured ice creams per hour during Spets Department' sold million units in the US 35% preferred coffee, 15% peak hours and 10/hour non-peak. How many ice preferred juice, and the rest preferred water. How creams does it on its first day, how many many people preferred 8-hour day, was this per hour? water? g. A pizza restaurant sells A primary student buys 100 pizzas each day. If the 3 notebooks at \$2 each, des, 40 apples, 30% ges, 20% oananas, restaurant operates for then buys 4 packs of days a week, how r. o pencils for \$3 each. How pizzas does it sell in 4 d 10% grapes. How much money did the weeks? many people prefer student spend in total? bananas?
- j. Diana read 3 of her grandpa's Phantom comics daily for 3 days, 4 on each of the next 2 days and 16 on the weekend. How many Phantom comics did she read for that week? If grandpa has 1,200 comics, at this rate, how long will it take Emma to read them all?

1. Subtract 700 from one thousand eight hundred and write your answer in digits.	2. How much GST is in a GST inc. price of \$220?	3. How much change is given for purchases of \$47 and \$36 paid with a \$100 bill?	4. Write the amount three thousand and fifty-two dollars in numbers.
5. If a journey takes from 07:30 to 13:45 what is the total duration?	6. Which is more: 14% of \$800 or 7% of \$1,600?	7. Convert 2,500 millilitres to litres.	8. If a product has a cost of \$80 and a mark-up of 50% what is its price?
9. If a product has a cost of \$50 and a mark-up of 100% what is its price?	10. What is the tax amount for 12° 5° \$700?	1. What is the value 2 of a proving country with a measions 25 cm, 30 cm, and 25 cm?	12. What is budget result based on revenue of \$2,900 and expenditure of \$1,750 and \$1,100?
13. Calculate \$400 less \$75 less \$35.	A wait of paid \$28 per hour. So how much pay for 30 hours?	15. Find the mean of \$9, \$8, \$10 and \$11.	16. What is the total weight of 25 courier parcels each weighing 2.5 kg?
17. A \$100 dress is discounted by 20%. What is the price after discount?	18. Multiply \$7 by 1/5.	19. If a coat originally priced at \$150 (including tax) is now \$105, what is the discount?	20. If assembling a shoe rack takes 15 minutes, how long will it take to assemble 9 of them?

a. What is the total of b. A snowboarder does a c. The test scores of a class 180°, a 360° and then are: 85, 92, 78, 85, 88. twenty-five plus 70 times fifteen minus ten? a 270°. How many What is the mode? revolutions have they made? d. A farmer has 300 chickens, e. A city park has 500 trees, f. A solution is made by 200 ducks, and 100 geese. 200 benches, and 100 mixing two liquids in a ntio of 5:3. If you have litres of the first liquid, lamps. If 50 trees are cut If 50 chickens and 30 ducks are sold, how many down and 20 benches are birds are left on the farm? removed, how now much of the second liquid should you add? are left in th g. You need 200 grams of A recipe requires 1.5 cups of mince, 2.25 of vegies, sugar, 300 grams of flour and 150 grams of butt and 0.75 cups of rice. If score in for a batch of cooki subject 🕏 100, what you double the recipe, the recipe is tripled, i. ne average percentage how many cups of each inmuch of each ingredient is score of the student? gredient do you need? needed? j. A water-saving shower head reduces water flow to 9 litres per minute. How much water is saved during a 10-minute shower compared to a regular shower head that uses 15 litres per minute? How much is saved weekly for a shower a day each, for a family of 4?

1. A lunch includes a sandwich for \$6, a juice for \$4 and a donut for \$2. How much in change from \$15?	2. What is one half as a percentage?	3. What is the circumference of a circle with a diameter of 10cm?	4. Which is higher? 10% of \$2,000 or 15% of \$1,500.
5. What is \$750 minus 2 x \$100.	6. What is the tax amount for 15% of \$800?	7. Calculate 9 times 11.5.	8. If a group of 3 workers is paid \$450 for a 3-hour job, how much does each worker earn per hour?
9. What is 1/2 + 1/4?	10. At what degred is 'South-West' Compass'	1 If intakes i works 15 mir as to subles counct daws, they how mnay conshey to in 4 sours?	12. What is 12% of \$350?
13. How much GST should be added to a price of \$185 (GST exc.)?	1 How my defininge would need to be given for a purchase of \$37.75 from a \$50 note?	15. Calculate the income tax amount for 15% of \$500?	16. What is the total pay for 35 hours of work at \$20 per hour?
17. What is the total pay for 30 hours of work at \$16 per hour?	18. Which is higher? 10% of \$1,000 or 5% of \$2,200.	19. What is the area of a circle with a radius of 7cm?	20. Convert 5.6 metres to millimetres.

c. A cyclist covers a distance a. How much is thirty-six b. If a shower uses 15 litres dollars times 4, divided by of 72 km in 3 hours. What of water per minute, how six dollars times twelve. much water does a person is the cyclist's average for a 12-minute shower? speed in km per hour? f. A store offers a 25% d. Konan drinks three 600 e. A retailer has two shops. Shop 1 sold 500 units and ml smoothies a day, which discount on all electronics. a laptop originally costs 2,200, how much money include 300 ml of low-fat the Shop 2 sold 600 units. milk. How much milk does Which shop had a higher do you save if you buy it he consume from these in sales volume, with the discount? a week? much in %? g. An old Bing Crosby A cafe sells 200 pies each shellac record of 'White day. What is the total Christmas' plays at 78 revenue generated by the revolutions per mir. • bakery in 30 days, if each liate the nean weekly How many revolution for erage for these sales. pie sells for \$5? the song: duration = 3:02? j. A rectangular garden is 10 metres long and 4 metres wide. If a path of 2 metres is added to the length and 3 metres to the width, what is the new area of the garden? How much bigger in % is the new garden?

1. Which is a higher probability? A 1 in 4 chance, or a 1 in 6 chance?	2. What is the area of a lawn with dimensions of 6m x 4.5m?	3. Write the amount two thousand and seventy dollars in numbers.	4. Express 12.5% as a fraction.
5. Convert 1,800 millilitres to litres.	6. What is \$800 minus 7 x \$60?	7. If the base rate is \$36/hour and temporary staff get an additional 20%, how much extra is this?	8. What is the area of a circle with a radius of 12cm?
9. Express one quarter plus 1/8th as a percentage.	10. If a \$99.95 bill had to be split every ways, then how have will each dink apy?	11. Palvis 108 N \$450?	12. Which is cheaper: a \$65 item after a 20% discount, or a \$90 item after a 40% discount?
13. Express 35% as a decimal.	x. Multipy by \$25.	15. For a yearly salary of \$93,600, what is the weekly average?	16. Convert 2.5 kilograms to grams.
17. Which probability is lesser: 2 in 7 or 4 in 9?	18. What is the total cost for 8 loaves of bread priced at \$4.10 each?	19. Find the area of a rectangle with sides measuring 40cm by 15cm.	20. Find the mean of \$12, \$9, \$11 and \$10.

a. Mo's car uses 8.4 litres c. A zoo has 20 lions, 75 b. A train can travel at 180 meerkats, 10 kangaroos of fuel per 100 km. If he kilometre/hour. How far drives 250 km, how many will it travel in 5 hours at and 25 wombats. How litres of fuel does it use? 3/4s of that speed? many legs? d. The scale of a map is e. If a boat travels at a speed Mak, a weightlifter, weighs 1:25,000. If two cities are of 25 km/h, how long will 90kg and gains 5% of their nass each month for 3 onths. What is their 10 cms apart on the map, it take to travel a distance what is the actual distance of 100 kilometres? between them in kms? weight after 3 months? g. An artist sells 25 paintings The ages of a group of in January, 30 paintings, people are: 23, 27, 23, February, and 20 paint gran, and red. probability of land-30, 31, 23, 28, 27 and in March. If 5 paint. 30. What is the median are returned, how ma on red is 0.25, what is average of these ages? paintings were sold in the probability of landing total? on a non-red section? j. A burger shop sells 80 meat burgers and 20 vegie burgers per day,. If the shop operates for 6 days a week, how many burgers does it sell in a month (assuming 4 weeks)?

Quick			
1. If a trainee earns \$31,200 per annum, what is the weekly wage? (52 weeks)	2. How many litres are used per 100 km at a consumption rate of 5litres/100km?	3. What is 12 times 1/4?	4. How much change is given for a \$52.75 purchase paid with a \$100 bill?
5. Add 135, 60 and 105.	6. What is the volume of a cube with sides of 4cm?	7. Convert 1.75 hours to minutes.	8. What is the price after a 12% discount on \$85 shoes?
9. What is the perimeter of a rectangle measuring 6m by 5m?	10. How much chance would need to be given for a pure as of \$77 and \$60 from a \$180.523	If A unding mode of take 12 ding es how Ong with take would 10?	12. If a worker's hourly rate is \$22 and they work 40 hours a week, what is their weekly pay?
13. What is the mean average of \$12, \$10, \$8 and \$6?	• No. 10tk 4 \$150 mk vis \$95 m. As \$30.	19. If a worker does a shift from 16:30 to 21:15 with no breaks, then what is the total time worked?	16. A plumber award pay rate is \$40/hour. Overtime is 20% extra. How much in total is the wage for an overtime hour?
17. Write the amount seven thousand three hundred and fifty dollars in numerals.	18. Convert 45% to a decimal.	19. Find the total of 85 + 130 + 40.	20. What is 0.75 litres in cubic centimetres?

a. What is the sum of the b. How much is (eighty-seven | c. If one litre of paint covers whole numbers from 1 to plus 53) divided by two 2m², how many litres are 10? minus forty? needed to paint a 8m² square room with 2 coats? d. The heights of a team are: e. If a rabbit's heart rate f. If the probability of event 150cm, 155cm, 160cm, A occurring is 0.4 and the range averages 130robability of event B curring is 0.3, what is 165cm, 170cm and 190cm. 325 bpm (depending on What is the range of activity), then on average heights? how many bea the probability that both events A and B will occur? hour? g. A teacher buys 2.5m of Effie spends 1.5 hours ribbon, 3.75m of fabric homework on maths, 2.25 and 120cm of lace for hours on science and 0.75 meir elecproject. How many v usage by 15%, how hours on economics. How of materials did the ach money do they save many hours of homework teacher buy in total? on their monthly bill? in total? j. A bookstore sells 50 books each day. How much revenue does the bookstore generate in 15 days if each book sells for \$20? If the gross profit margin is 40% then how much is that in total?

QUICK			
1. What is 40% of \$200?	2. Calculate the mean of \$8, \$9, \$10 and \$11.	3. If 3 boxes of cereal cost \$18 in total, what is the cost for 8 boxes?	4. Find the circumference of a circle with a diameter of 20cm.
5. What is 5 minus 1.50 + 0.75?	6. A delivery takes 18 minutes each way. If the courier leaves at 3:30pm when do they arrive?	7. What is 2 minus 1.75 + 0.5?	8. What is 12.5% as a fraction?
9. What is 500 mm in metres?	10. If 8 cans of colk cost \$20 in total and will much will 5 cost	1. in thiny 25 th is.	12. If a team of 4 workers is paid \$480 for a 2-hour job, how much does each worker get per hour?
13. Convert 2.25 litres to millilitres.	A. For all dryual swary of \$85,000, what is the weekly average?	15. Multiply \$32 by 11.	16. What is the budget result of \$1,700 revenue against \$750 expenses and 2 cost amounts of \$500?
17. What is the combined weight of 20 packages each weighing 3.5 kg?	18. Divide 288 by 12.	19. Subtract 450 from one thousand five hundred and write your answer in digits.	20. What is 2.4 metres in millimetres?

a. How much is (sixty divided by five) plus twelve times three?	b. How much is 12 cans of mineral water at \$2.95 each?	c. A skater travels 10km in 35 minutes. What is their average speed in metres per second?
d. A company sells a bed for \$800 and makes a profit of 25%. What was the cost price of the bed?	e. Mork wants to save 20% of his monthly income of \$2,500. How much money does he save each month?	f. An irrigation system dispenses 200 litres of vater every 5 minutes. In at is the flow rate in itres per minute?
g. If an elephant's heart rate range averages 25-40 brm (depending on activity, then on average homany beats in an hou.	1 cure of location pan- calcas you and to make 2 tuncakes, now many cas of flour do you need?	i. In a survey of 200 people, 120 said they preferred chocolate ice cream. What % of the survey respondents preferred chocolate ice cream?
	ee on the way to work, one at now priced at \$6 each, how many sences.)	

401011			
1. How many hours are worked from 08:00 to 14:45 without breaks?	2. What is the cost to fill a 65-litre tank at \$1.95 per litre?	3. Subtract 47.5 from one hundred and write your answer in numbers.	4. What is 15% of \$800?
5. What is 15% of \$400.	6. What is 7 times 35?	7. A \$50 pair of shoes is discounted by 20%. What is the price after discount?	8. A jacket, originally priced at \$110 (GST inc.) is now \$77. What is the discount?
9. A cook is paid \$25 per hour. So how much pay for 40 hours?	10. If a car travels at 60km/h for 2 hours, how fach travelles?	11. Shi ate Silvinini 305 len 40.	12. Calculate 5 times 1/4.
13. Convert 540 minutes to hours.	4. A may (7°4''s savry is \$104,000/ year. How much does this average per week over a year.	15. Convert 6 kilograms to grams.	16. What is 800 mm in metres?
17. What is 6 times 1/3?	18. What is 3 minus 1.5 plus 1.25?	19. Convert 4.5 hours to minutes.	20. Express the amount three thousand six hundred and fifty dollars numerically.

b. 2 burgers @ \$7.50, 2 fries a. How much is forty-two c. If it takes a snail 20 @ \$4 and 2 shakes @ \$3. plus 353, minus eighteen minutes to move 4 metres, times three? Change from \$50? what is its average speed in metres/second? d. A cyclist travels at a speed e. If 5 workers can build a f. A gardener plants 30 roses, of 25 km/hour for 3 hours wall in 8 days, how many 25 tulips and 15 daisies. they add 20 more roses and 20km/hr for 30 min. days would it take for 8 workers to build the same d 10 more tulips, how How far will they travel in 3.5 hours? wall? many flowers are in the bed now? g. A recipe requires 2 cups A library has 3,000 books of sugar and 3 times as in English, 1,200 books much flour. If an additi in Italian, and 800 books or 170cm. 4 cups of milk are a od, in Arabic. If they add 500 exclude the tallest how many cups of books in each language, yer, Biggie Longshanks what will be the new total ingredients are needed in at 200cm, what is the total? average of the other 4? number of books? j. A store sells sports jerseys for \$45 each and gives a 10% once 15 jerseys are purchased. How much does the store earn from selling 30 jerseys to one team? What about for a contract for a whole league of 12 teams?

QUICK			
1. How much is earned for 45 hours of work at \$22 per hour?	2. Which is more: 12% of \$900 or 8% of \$1,500?	3. If the standard rate is \$48/hour and overtime pays an extra 30%, what is the total pay for an overtime hour?	4. Convert 600 millimetres to metres.
5. Find the median of \$45, \$55.50, \$65, \$80 and \$95.	6. How much change is needed for a purchase of \$17.35 from a \$20 note?	7. If a cyclist travels at 30km/h for 20 minutes, how far does he travel?	8. Calculate the product of 70 and \$20.
9. What is the area of a tabletop with dimensions of 2m x 1.5m?	10. Determine the sum of 6.2 + 1 3.15.	1. In de very to tes 50 mutes a 1 20 when 2000 it an ve?	12. What is the sum of 9 + 2.25 + 3.75?
13. Compute 70 + 10 x 5.	1 How my 4 is 45% of \$300?	15. How long is a trip from 13:10 to 14:05?	16. What is 15% of \$200?
17. Express 75% as a fraction.	18. What is the volume of a box with dimensions 25cm, 35cm and 45cm?	19. If a worker does a shift from 08:30 to 13:15 with no breaks, then what is the total time worked?	20. If dim sims are priced at \$2 each or 3 for \$5, then how much will 8 cost?

c. If a model train is 1/32nd a. A runner completes a 400b. Each woodworker can metre in 50 seconds. What the size of the actual build 4 chairs per day. is their average speed in How many chairs can 5 train, and the toy train is woodworkers build in 2 12 centimetres long, how metres per second? days? long is the actual train? d. If a human's heart rate e. A birthday cake is cut into f. If 50 Year 12 students 8 equal pieces. If 5 cakes range averages 60-100 average \$120 on their rmal outfits, how much bpm (resting) then on are ordered, how many pieces of cake are there in average how many beats This in total dollars? in an hour? total? g. A batch of cookies uses If Taylor Swift's 2024 0.75 cups of chocolate album, 'The Tortured Poets chips, 0.5 cups of nuts ωρs of flour, Department' sold 1.6 much sugar should and 1.25 cups of oa million units in the US on many cups of ingredie ts d use to maintain the its first day, and 600,000 in total for 2 batches? same ratio? were on vinyl, what percentage is this? j. A workshop produces 150 chairs, 100 tables, and 50 cabinets each month. If 20 chairs and 10 tables are damaged, how many items remain in good condition? If the cost of a chair was \$120 in materials and labour, and for tables this was \$150, then how much did they lose from this in \$?

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1. If a \$500 bill is split equally among 4 people, how much does each person pay?	2. How many grams are in 5 kilograms?	3. How many litres are used for 50 km at a consumption rate of 7litres/100km?	4. Calculate 15% of \$1,200.
5. What is 18 kg in grams?	6. If a cyclist rides at 15km/h for 1.5 hours, how far does he travel?	7. What amount of GST should be added to a price of \$175 (excluding GST)?	8. Calculate 50 times \$30.
9. What is budget result based on revenue of \$2,900 and expenditure of \$2,725?	10. How much total pay for 20 hour \$18/hour?	1. Whity 65 %	12. Which is a lower probability? A 2 in 5 chance, or a 9 in 10 chance?
13. What is the sum of 700 + 1,100 + 90?	4. What 50 sinus 4 x 350.	15. A hairdresser's pay rate is \$35/hour. Casuals get 25% extra. How much is earned in total?	16. What is 3 kg in grams?
17. Which is lower price? A \$60 item discounted by 20%, or a \$75 item to be discounted by 33%?	18. Calculate the income tax amount for 25% of \$2,500?	19. How much is 2 and a half hours in minutes?	20. What is the mean average of \$7, \$6, \$5 and \$6?

a. Calculate one hundred and b. Change from \$10 for 15 c. A cafe sells 150 cups of apples at \$0.45 and 3 coffee each day. How five divided by seven plus forty. oranges @ 75c? many cups of coffee does it sell in 7 days? d. A garden is divided into 4 e. A vinyl LP record plays f. If a model car is 1/24th the equal parts. If one part of at '33' revolutions per size of the actual car, and the model is 8 centimetres lig, how long is the the garden is 150 square minute. How many revolutions for a song of metres, what is the total area of the garden? 210 seconds? actual car? g. A family's weekly petrol Cletus eats a Big Mac for bill averages \$150. If the morning tea and 2 for switch to an EV and sa lunch every work day. How yellow, 90% how much wo: 0 2 x 1.25 this of black many does he eat for a they save weekly (on a mural, how much 48-week year? (Assume no fuel costs). paint is used in total? absences.) j. Each salesperson at a store sells an average of 15 pairs of shoes per day. If there are 3 salespersons, how many pairs are sold in 5 days? If the average selling price of the pairs of shoes was \$250, then how much was the total revenue?

QUICK			
1. A \$60 pairof pants is discounted by 15%. What is the price after the discount?	2. A jacket priced at \$99 (GST inc) is on sale for \$66. How much is the discount?	3. What is the sum of 14.5 + 2.5 + 2.25?	4. Calculate the area of a circle with a radius of 15cm.
5. What is 22% of \$450?	6. A manager's salary is \$76,000/year. How much does this average per week over a year.	7. If the base pay is \$32/hour and casual employees get an additional 20%, how much extra is this?	8. What is 40% as a fraction?
9. How much in total for 5 burgers each @ \$6.50?	10. If an item costs \$75 and is marked of by 90%, what is the selling of	11 Since he are in a factoriet of a	12. A trainee manager earns \$38,000 per annum; so how much per week? (52 weeks)
13. What is the total weight of 250 courier parcels each weighing 3 kg?	times \$2.30.	15. If potato cakes are priced at \$1.50 each or 3 for \$4, then how much will 10 cost?	16. If an intern earns \$29,000 per year, what is the weekly earning? (52 weeks)
17. If the regular rate is \$50/hour and overtime is 25% more, what is the total pay for an overtime hour?	18. If donuts are \$1.25 each or 5 for \$5, what is the cost of 12 doughnuts?	19. What is the perimeter of a square with a side length of 12cm?	20. What is 25% of \$275.

c. How much is \$1,000 in a. If you run 3km a day for b. How much larger in area 5 days a week, then how is a square of 24cm² weekly revenue, less \$85 many kms in 4 weeks? compared to a square of in costs/day over 7 days? 4cm²? d. A family's grocery bill is e. How many slices of cheese f. A face painter can do a \$150. If inflation forces are needed to make 64 kid's face every 5 minutes. t a fete they work non-p for 4 hours. How prices up by 4% then what simple triangle sandwiches is the new cost? (i.e. cut in 4). many faces painted? g. If you sleep 7 hours a day Jenza scored 8 points on week nights and 9 a in the 1st quarter, then night on weekends, w doubled his points in the day. If % of the week is sp are 3 salespersons, 2nd. He added 4 points sleeping? w many items are sold in the 3rd quarter and in 10 days? 2 points in the fourth quarter. How many points did he score in total? j. Muzi in Year 12, has a casual retail job, normally works 10 hours/week and is paid \$20 per hour, plus a 25% casual loading. She wants to save \$5,000 in 12 months towards a car. She spends about \$50 of her wages a week. How many weeks and hours on average, does she need to work to save this amount? (Ignore any tax amounts)

Quick (Harder)

Quick (Haraci)			
1. A square garden has a perimeter of 36 metres. What is its area?	2. 18 divided by the difference between 6 and 2, plus five.	3. If a 5 litre container has 2 litres of water, how much capacity is remaining?	4. Convert 3.5 metres plus 2.7 metres into centimetres.
5. How many total points is an Aussie Rules score of 8.19?	6. How many kilograms are there in 500 grams plus 10 times 200 grams?	7. A car travels 240 km on 30 litres of petrol. How far can it travel on 20 litres of petrol?	8. Find the sum of 3.5, 8.25, and 1.75.
9. A factory produces 500 units of a product per day. How many units will it produce in a week?	10. Calculate the sun of \$27,400, \$1875, and \$24,900, a so the subtract \$1.500.	2. It see ye reak teg 2 cups of nour for very 3 of sulvr, and you have (Youps of sugar, how outh flot vis Lided)	12. How many millimetres are there in 5.25 metres?
13. Calculate the mean of 8, 10, 12, 14, and 16.	4 by 2.	15. If 8 workers can build a wall in 16 days, how many days will it take for 6 to build the same wall?	16. Twenty times the sum of 5 and 3, minus 10.
17. Subtract \$25 from \$1000, ten times.	18. A project's duration is 10 days working 8-hour days, but is completed in 8 days due to overtime. How many extra hours did the team work?	19. If a leaking tap loses 1 litre per hour how much does it leak in a day?	20. If a company's revenue increased by 25% this year and the revenue last year was \$400,000, what is the revenue for this year?

These questions are based on the weekly pay of a local retailer. Wage rates are based on the national minimum wage for 2024/25 of \$24.10, but you can use your current year's. Then complete the table below for each worker, or a similar one using rows, or even a spreadsheet, and also calculate the total wages bill, the average weekly wage and the average hourly wage. a. Alma, 22, works 38 full-time b. Beti, 19, works 38 ordinary c. Cynth, 38, a part-timer works ordinary hours. hours at 80% of the adult rate 16 ordinary hours. d. Dok, 45 is a casual and works e. Eryk, 18, a 2nd year apprenf. Foo, 62, works overtime of 3 four 4-hour shifts with a 25% tice, gets 60% of the adult rate hours at a 50% loading, plus 38 loading. for their 38-hours. ordinary hours. g. Ghan, 24, works 8-hours on h. Hal, 71, a su Ilce, 16, a casual, gets 50% of each weekend day and gets dult rate for 8-hours on causal shif penalty loading of a 25% for ay (plus the Sunday and Saturday and 50% for Sunday. e casual loading). j. Manager Jakx is paid at 509 ate and works 38 ordinary hours Monday to Friday, with day (50% loading) Employee Ghan Ordinary hrs x Pay rate Loading Total Overtime hrs x Pay rate Loading Total Saturday hrs x Pay rate 8 x \$24.10 Loading 25% Total \$241 Sunday hrs x Pay rate 8 x \$24.10 Loading 50% Total \$289.20 Total wages \$530.20

Average wage per week \$

Total wages bill

Average wage per hour \$

Quick (Harder)

Quick (Harder)			
1. Divide 132 by 12 by 3.	2. Add \$100 to \$1,000, twenty times.	3. Find the product of 7 times 2 and then multiply by 3	4. A car travels at 90 kilometres per hour. How far does it travel in 3 hours each trip for 3 days?
5. Multiply 12 by 13 and then times by 3.	6. A machine can produce 500 units in 8 hours. How many units can it produce in 20 hours?	7. Find the difference between 300 and 150, and subtract 50.	8. Calculate 500 minus 150 and then subtract 50.
9. The population of a town is currently 25,000 and is growing at a rate of 10% per year. What will the population be in 2 years?	10. A train travels at an average speed of km/h for 2 hours for then at 120km, which next 3 hours. What it the too at 150m 2:	S. A comouny's textoring and Ans 20% of its replaced in the revenue is \$1.00,000, what is the profit making in a Nars?	12 A swimming pool holds 50,000 litres of water. If it's filled evenly in 10 hours, how many litres of water are added per hour?
13. What is the square root of 25?	What is esum of 1,130, 750, 2,500 and 450?	15. Multiple 6 by 10 by 3 by 20.	16. Solve for x in this equation. x = 25 * 50
17. Subtract 8.7 from 20, and then add 4.6.	18. If a cricket batter has made 200 runs and their average is 40, then how many innings have they batted in (exclude not-outs)?	19. Calculate the surface area of a cylinder with a radius of 5 cm and a height of 12 cm.	20. A car travels at an average of 60 km/h for the 1st half of a trip and 80 km/h for the 2nd half. If the total trip takes 2 hours, what is the total distance?

In Australia, the CPI (Consumer Price Index) that is used to calculate inflation is divided into 11 major groups, which are used to categorise and measure changes in the prices of goods and services that Australian households typically purchase. In 2024 these groups, and their relative weightings are:

Food & non-alcoholic beverages: 17.15%

• Alcohol and tobacco: 6.98%

• Clothing and footwear: 3.40%

• Housing: 21.74%

• Furnishings, household equipment &

services: 8.43%

Health: 6.43%

• Transport: 11.42%

Communication: 2.14%

Recreation and culture: 12.55%

Education: 4.34%

• Insurance and financial services: 5.43%

- a. Estimate and/or find out how much these relative percentages might be for your household.
- b. Create a properly-labelled bar graph to compare the CPI percentages with those for your household. Compare your comparisons with other class members.



Quick (Harder)

Quick (Haraer)			
1. How much is 4 ³ ?	2. If a rectangle has an area of 72 square metres and a length of 12 metres, what is its width?	3. Calculate 144 divided by 12, and then divide by 3.	4. Add 15.5, 7, and 3.2. Then subtract 4.1.
5. Divide 100 by 5, and then divide by 2.	6. The sum of three consecutive integers is 72. What are the integers?	7. Find the total of 425, 300, 150, and 75.	8. Add \$25 to \$100, twenty-five times.
9. A pizza restaurant offers a 15% discount on large pizzas, which are normally \$20 each. If Mary buys 3 large pizzas, how much does she save?	10. A car rental company charger per day plus \$0.22. To km driven. If s	11. The taxes Jennica hours opaint on coat of Ance, Note Long will at the heavo paint 3 fence with 3 taxits?	12. A delivery truck can carry 1,000 kg of goods. If it is loaded with 250 kilograms of goods, what fraction of its capacity is filled?
13. A tank can be filled by pipe A in 6 hours and by pipe B in 4 hours. If both pipes are opened together, how long will it take to fill the tank?	What is Yuare root of 1.5?	15. 3 workers stay back 2 hours every day for a week. If they normally work 8 hours a day, how many extra hours do they work in total?	16. How much is 2 ³ ?
17. Subtract 200 from 800 and then subtract 100.	18. Multiply 6 by 3 and then multiply by 4.	19. Subtract \$12,500 from \$40,000, then add \$22,700, and subtract \$9,800.	20. A recipe calls for 250 ml of milk to make 5 servings. How many millilitres are needed for each serving?

Research and calculate the following for these journeys. Add 2 more of your own.			
distance	departure time (including local arrival time		
	ravel to departure		
	etc.)		
a. Home to Hobart	b. Home to Gold Coast		
	d.		
	.0.0		
c. Home to Bali	d. Fisme o Paris		
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	12 6 AX		
	() 10 19		
	12-51-40		
0	160		
076	T' V		
e.	f.		

Quick (Harder)

Gorck (Haraci)			
1. Which is wider a screen resolution: 1024 x 768 pixels or 1920 x 1080 pixels?	2. A company sells 1,200 units of a product per month at \$5 each. How much revenue is earned in a year?	3. Solve for x in this equation. 100 = 2x + 50	4. If 5 painters can paint a room in 4 hours, how many painters are needed to paint the same room in 2 hours?
5. Subtract \$11,000 from \$50,000, then add \$28,500, and subtract \$7,200.	6. Find the quotient of 210 divided by 7, and then divide by 5.	7. An employee earns \$20/ hour but \$30/ hour for overtime. If they work 10 hours of overtime in a week, how much extra money did they earn?	8. Which is a larger ratio 16:9 or 4:3, and what are the fractions?
9. Calculate 3 times 4 and then multiply by 5.	10. If a cricket bowle has conceded 64 and their average 11, then how man, rickets have they a ke 2	11. The Many to the policy is an Archie Tycon of L2.16?	12. Calculate the total amount after adding \$25,000, \$15,500, \$30,200, and \$18,300.
13. Solve for x in this equation. 30 = x + 20	Subtract from 400 and then subtract 80 twice.	15. What is the total of the consecutive whole numbers from 1 to 15?	16. The product of 7 and 3, minus five times 1.5.
17. Subtract \$20 from \$10,000, fifty times.	18. What is the sum of 280, 150, 180, and -90?	19. Add 12.3, 9, and 2.5. Then subtract 6.8.	20. Multiply 10 by 5 and then multiply by \$2.50.

Lanny, 18, is about to start an apprenticeship as a carpenter. His boss will pay him at 60% of the adult pay rate of \$30. He is buying a used manual ute from a dealer for \$15K. He will need to borrow \$10k to help fund this. The ute has a RWC, has 6 months rego, and is mechanically sound. Lanny estimates he will average 80km a day for work and TAFE (trade school). Estimate, research and calculate the following amounts. a. Which ute can he get? Why should he choose this? What is the fuel economy? b. Loan duration, interest rate & repayments. c. Rego and insurance. ean aintenance and repair costs. d. Fuel costs. f. Other vehicle costs g. Calculate Lanny's total commitment per week, h. What proportion of his wages will be spent on per fortnight, and per year. his vehicle (ignore his personal use for this)? Is There any funding or support to help Lanny?

Quick (Harder)

Quick (Harder)			
1. How many degrees is two complete revolutions?	2. A cyclist covers 80 km in 4 hours. What is the average speed in kilometres per hour?	3. If a person jogs at a speed of 12 km/hour over 2 hours, with two 10-minute breaks, how many kilometres have they traveled?	4. If an F1 does a lap time of 180 seconds as a warm up and then does another in 162 seconds, how much faster is this in percent?
5. Divide 10,000 by 50 by 10 by 2.	6. If you have 500 grams of flour and you need 5 equal portions, how many grams are in each portion?	7. If Ralph can prepare 4 cakes in an hour, how many cakes can he prepare in 5 hours?	8. What is the sum of 125, 75, 150, and 200?
9. Divide 81 by 9, and then divide by 3.	10. A rope is 12.8 metres long. If it is a control into 4 equal reacts. how long is as a piece in metric.	2 Price d by Synus the pursued two	12. A sum of money is divided among A, B in the ratio 3:5 If a receives \$300, what is the total amount?
13. Add \$14,600, \$19,200 and \$17,800, then subtract \$8,500.	Lints is an Aussie Rules score of 10.10?	15. 15 minus the product of 4 and 2, plus 28.	16. What is the total of the consecutive numbers from 1 to 10?
17. If a cricket bowler has conceded 88 runs and their average is 44, then how many wickets have they taken?	18. Solve for x in this equation. (y = 10) x = 2y + 80	19. A cafe sells 300 coffees daily at \$5 each. How much revenue is earned in a trading week of 6 days?	20. What is the perimeter of a right-triangled water feature with sides measuring 9 cm and 12 cm?

Meal Planner				
Complete this planner for your 'go-to' meal for that you would make for a dinner for 4.				
scription:		Serving Size:		
Ingredients:	Quantities:	Price per qty:	Total Price:	
Main:				
Support:				
		4.		
		X		
Cooking Equipment:	L Ang	is. C		
	15:			
Description Characteristics Ch	4			
Preparation Steps:		15		
	-C			
	0,70	•		
Q.Y.T.	1 P			
Cooking Steps:	Time:			
•				
Other Information/Special Requirements:		nformation per serve		
	kJ Fat			
	Carbs			
	Protein			
Total: Time - Prep Total: Time - Cooking	Total: Cost - Ir	ngredients Total: Co	st - Per serve	