Numeracy skills checklist

(self-evaluation)

Numeracy Co-requisite Assessment (CAA)

(Updated for Term 3, 2025)

Using this checklist

This checklist is designed as a preparation tool to give students an idea of which areas/skills tested in the Numeracy CAA they need more practice with. For each skill/competency assessed in the Numeracy CAA, a past exam question has been given.

Students should:

- 1. Try each question (with the solution covered up).
- 2. Check the model answer.
- 3. Tick the box in the right column to indicate how they did.

After this, the student should target their practice towards the particular topics/skills which they struggled with in this checklist (this can be done in consultation with their tutor or teacher).

Calculators are permitted in the test, so students should have full use of one when practicing.

Good luck!

> the team at Trajectory Education

About the Numeracy CAA

The Numeracy CAA is one of the 3 CAAs sat by Year 10 or Year 11 students (the others being the Reading and the Writing CAAs). It requires students to master the <u>Mathematics and Statistics</u> content ideas at Level 4 of the New Zealand Curriculum.

To gain an NCEA qualification at any level, students need to obtain 20 co-requisite credits. The usual way to achieve this is by passing the Numeracy, Reading, and Writing CAAs.



We help high school students in Christchurch take charge of their own learning, through 1:1 tutoring. Get in touch for a free first lesson.

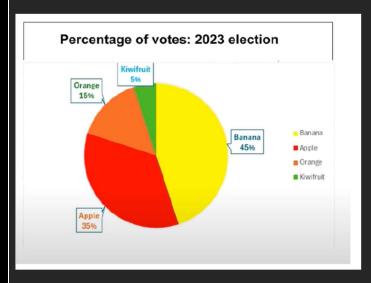
			How	am I do	ing?
Competency	Past exam question	Solution	Not well	Need a bit more practice	Great!
	Topic #1: Number				
Find fractions of amounts	Here is a graph of cupcake sales at a school for <i>Treat Week</i> . In total, 240 cupcakes were sold.	1/3 of 240 cupcakes = 1/3 x 240 = 80			
	Number of cupcakes sold by flavour 90 90 80 79 40 40 29 10 Chocolate Red Velvet Carrot Cake Peanut Butter Lemon Banana Flavour Is the following statement true? About one third of sales were chocolate-flavoured cupcakes. Source: Numeracy CAA past exam, Term 2 2023	80 is approximately 79, so the statement is true.			
Form percentages	Here is the price of a pair of jeans at the op shop. These jeans are priced at \$120 when new. What percentage of the new price for jeans, is the op shop price? Source: Numeracy CAA past exam, Term 3 2024	= (24/120) x 100 = 20 %			

Find percentages of amounts

EXAMPLE 1:

There are 120 seats in parliament. The Apple Party receives 35% of votes, so they get 35% of the seats in parliament. That's 42 seats.

How many seats do the Orange Party get?



Source: Numeracy CAA past exam, Term 4 2023. Image: Courtesy of 'Infinity Plus One' on YouTube

EXAMPLE 2:

Deena is learning to drive. A one-hour driving lesson costs \$80.

If Deena takes five lessons, there is a 30% discount.

How much do five driving lessons cost, with the discount?

Source: Numeracy CAA past exam, Term 4 2024

EXAMPLE 1:

15% of 120 = 0.15 x 120 = **18 seats**

EXAMPLE 2:

 $$80 \times 5 = $400.$

30% of \$400 = 0.30 x 400 = \$120 discount

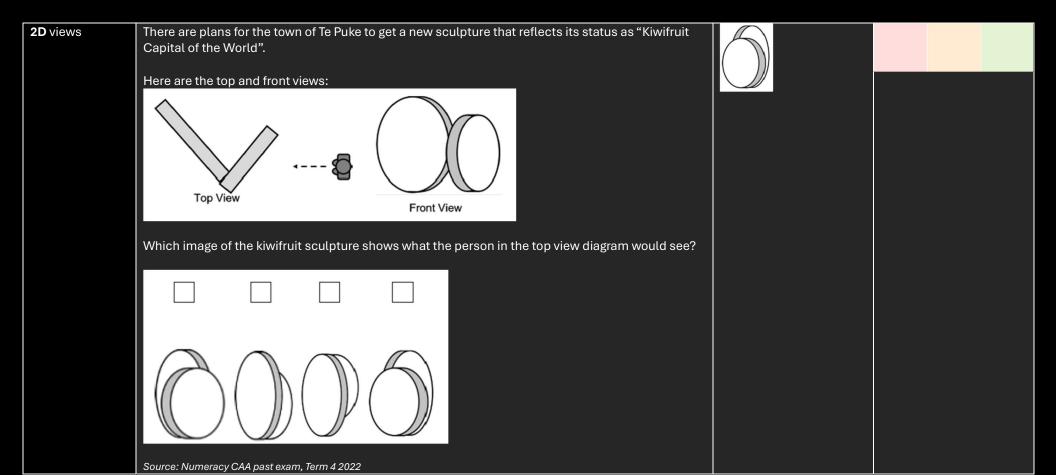
Final price = \$400 - \$120 = **\$280**

Convert between	EYAMDI E 1.						EVAMDLE 1:		
decimals,	EXAMPLE 1:						EXAMPLE 1:		
fractions and percentages	Only one in every 100 bat	by turtles survive to beco	me adults.				1/100 = 0.01		
percentages	What is the decimal of the probability of a 1 in 100 chance?								
	Source: Numeracy CAA past exam, Term 4 2024								
	EXAMPLE 2:					EXAMPLE 2:			
	Deena drives out of Chris to Dunedin.	tchurch on her way to D	unedin. She	will pass thro	ough Oamarı	u on her way	When she's at Oamaru, 247km out of 360km of her		
	She sees this road sign, j	ust out of Christchurch					journey will have been completed.		
	1						247/360 = 0.6861		
	Ashburton	87					Out of all the possibilities: i) 5/10 = 0.05 ii) 6/10 = 0.06		
							iii) 7/10 = 0.07		
	Timaru	164					iv) 8/10 = 0.08		
	Oamaru	247					v) 9/10 = 0.08		
	Dunedin	360					0.07 is the closest to		
	Duncum	500					0.6861, so the answer is		
							iii) 7/10		
	When Deena reaches Oa i) 5/10	maru, about what fraction	on of her jour	ney will she I	have comple	eted?			
	i) 5/10 ii) 6/10								
	iii) 7/10								
	iv) 8/10								
	v) 9/10								
	Source: Numeracy CAA past ex	am, Term 3 2024 (adapted)							
Working with decimals	Here are the players in a	basketball team. Their h				0:	Tania and Kendra		
	Nia Ani 1.57 m 1.6 m	Kendra Sue 1.94 m 1.7 m	Mere 1.78 m	Lucy 1.8 m	Tania 1.61 m	Sina 2.01 m			
	Which two players need t								
	and								
7	Source: Numeracy CAA past ex	am, Term 4 2023 (adapted)							

Morkingwith	Awa wanta ta aat a arab tran yaing bait	2/0 is squal to 150g	
Working with fractions	Awa wants to set a crab trap using bait.	3/8 is equal to 150g. Therefore 1/8 is equal to 50g	
iractions	Aug's love (grandfather) recommends using a beit mixture that is 2/0 equid and the rest is shields	_	
	Awa's koro (grandfather) recommends using a bait mixture that is 3/8 squid and the rest is chicken.	(150 / 3).	
	If Awa has 150g of squid, how many grams of chicken does Awa need?	If 2/9 is equid the other E/9	
	ii Awa nas 150g of Squid, now many grams of chicken does Awa need?	If 3/8 is squid, the other 5/8 must be chicken.	
		illust be chicken.	
		Since 1/8 is equal to 50g, 5/8	
	Source: Numeracy CAA past exam, Term 4 2024	will be 50g x 5 = 250g	
		chicken	
Increasing/	In 2023, the SPCA hopes to increase the amount of \$47,307 raised in 2022 by 5%.	5% of \$47,307 = 0.05 x	
decreasing by a	111 2020, the of Orthopes to mercuse the amount of \$47,007 taloca in 2022 by \$7%.	\$47,307 = \$2,365.35	
percentage	What is the total amount the SPCA hope to fundraise in 2023?	φ47,007 φ2,000.00	
porociitago	That is the total amount the or of those to fandance in 2020.	\$47,307 + \$2,365.35 =	
		\$49,672.35	
	Source: Numeracy CAA past exam, Term 2 2023		
Use equivalent	Awa has a boat with a small two-stroke motor. The fuel for the motor is petrol mixed with oil in a	Set the problem up like	
ratios	ratio of 50:1.	50 : 1	
		10,000 ml : ?	
	If Awa has 10 litres of petrol, how much oil, in millilitres , should he add?		
		To find 'scale factor'	
	Saverage Number of CAA mark even. Tarre 2,0004	10,000/50 = 200	
	Source: Numeracy CAA past exam, Term 3 2024	4 000 000 1	
Ob	7:	1 x 200 = 200ml	
Share quantities in ratios	Zion makes 84 candles using the ratio: five Manuka Smoke candles to every two Leather candles	= 84 / (5 + 2) = 12	
III Ialios	(5:2).	Therefore each 'part' of the	
		ratio represents 12 candles.	
		ratio represents 12 canates.	
		12 x 5 = 60 Manuka Smoke	
		candles	
		dilates	
	MANUKA MANUKA MANUKA MANUKA SMOKE SMOKE LEATHER LEATHER		
	SMOKE SMOKE SMOKE SMOKE SMOKE SMOKE LEATHER LEATHER SOLITION CONTINUE CAROLIS STATES CAROLIS SMOKE SMOKE LEATHER LEATHER SOLITION CAROLIS SMOKE SMOKE SMOKE SMOKE SMOKE SMOKE LEATHER LEATHER SOLITION CAROLIS SMOKE		
	How many Manuka Smoke candles does he make?		
	Source: Numeracy CAA past exam, Term 4 2024		

Forming and	EXAMPLE 1:				EXAMPLE 1	
using rates						
	Here is Cindy's water bill for one month.				\$35.96 / 24.8 = \$1.45 per	
					cubic metre	
		Wai Mā Services				
	Amount used (m³)	Rate (\$/m³)	Charge (\$)			
	24.8	?	\$35.96			
	How much does Cindy p	pay for each cubic metre	of water used?			
	Source: Numeracy CAA past e.	xam, Term 2 2024				
					EXAMPLE 2	
	EXAMPLE 2:				\$7.00 / 1000 = \$0.007 per 1	
					gram	
	Taro costs \$7.00 per kilo	gram. What is the cost c	of a taro that weighs 510	grams?		
	a) \$2.83				\$0.007 x 510 = \$3.57	
	b) \$3.57				Students may also find the	
	c) \$4.28				correct answer by identifying	
	d) \$5.10				that 510 grams is approx.	
	Source: Numeracy CAA past e.	evem 2021 (nilet evem)			half of 1 kg, and \$3.57 is	
					approx. half of \$7.	
Comparing rates	At the supermarket, Alor	ma finds two different br	ands of white chocolate	buttons.	Blanco: \$1.40 / 100 grams = \$0.014 per gram	
	Blanco buttons cost \$1.4	40 for 100 grams.			ψυ.υ 14 pei giain	
		3			Wit: \$3.60 / 290 grams =	
	Wit Buttons cost \$3.60 fo	or 290 grams.			\$0.0124 per gram	
	Which is the best buy for	r Aloma – Blanco Button	s or Wit Buttons? Explai	n your answer using the	Wit buttons are cheaper,	
	price information above.		o or vite Buttorio. Exptai	in your anower doing the	so Aloma should buy them	
					(assuming she needs that	
	Source: Numeracy CAA past e.	xam, Term 2 2022			much).	

Topic #2: Shape i. No Understand ii. Yes reflectional and rotational symmetry i. Does this design have **reflectional** (mirror) symmetry? (Yes/No) ii. Does this design have **rotational** (turn) symmetry? (Yes/No) Source: Numeracy CAA past exam, Term 4 2024 (adapted), using a different image Nets Zion needs to make a box to hold one candle. The box will look like this: iv) Which net matches the box shown above? (i) ((ii) (iii) (iv) Source: Numeracy CAA past exam, Term 4 2024



Topic #3: Location and Navigation

Navigation Port Moresby is Papua New Guinea's capital city. It is marked on the map in purple. iv. North-west SOLOMON NEW AUSTRALIA In what direction is the flight path from New Zealand to Port Moresby? North ii. West iii. North-east iv. North-west

Source: Numeracy CAA past exam, Term 2 2022 (adapted)

Using **scales** on This map shows the route taken on a journey from Auckland to Hawai'i. iv. 9,000 km plans/maps Hawai'i Tahiti Tonga • Cook Islands Auckland Aotearoa 0 1,000 2,000 3,000 km New Zealand Using the scale on the map, which of the following estimates is closest to the total distance of the trip? 5,000 km ii. 7,000 km 9,000 km 11,000 km 13,000 km

Source: Numeracy CAA past exam, Term 3 2024. Image: Courtesy of 'Infinity Plus One' on YouTube

Topic #4: Measurement

	-		
Metric units - distance	Mia is shaving her hair to raise money for charity. She is 1.73 metres tall.	89cm = 0.89m (89cm / 100)	
	The distance from her hair to the ground is 89 centimetres.	1.73m – 0.89m = 0.84 metres	
	What is the length of Mia's hair in metres?		
	Source: Numeracy CAA past exam, Term 4 2023. Image: Courtesy of 'Infinity Plus One' on YouTube		
Metric units - weight	A large moa weighed about 230 kilograms.	3,300 grams = 3.3 kg (3,300 / 1,000).	
	A large kiwi weights about 3,300 grams.		
	About how many times heavier was a moa than a kiwi?	230 kg / 3.3 kg = 69.70 times heavier	
	Source: Numeracy CAA past exam, Term 2 2023		
Metric units –	A large jar holds 20 glasses of water.	250ml x 20 = 5,000 ml	
volume/ capacity	A glass holds 250 ml of water.	5,000 ml = 5 litres (5,000	
	How many litres of water does the jar hold?	/ 1,000)	
	Source: Numeracy CAA past exam, Term 2 2024		

		Each notch is about 12 liters (48 / 4).	this.	ge on her car looks like	a fuel station, the gau	When Deena stops at a	Reading scales/gauges
	· ·	utors (407 4).				7 - 2 - 10 H 155 -	Soutes/Eduges
		The needle is at 2 and a					
	, atoro.	bo about 20 iitoro.					
	litres	48 – 28 = 20 litres					
	his is an	Tip: Since this is an					
		'about' question, we					
		aren't required to find an					
	-				7)		
		L would have been					
	s correct.	accepted as correct.					
					STEEL VIOL	mental collections	
						Doona knows that the	
				es when it is full.	fuel tank holds 48 litre	Deena knows that the	
			10				
	s and 5	Fiii = 3 hours and 5		eed to buy to fill the tan	of fuel does Deena ne	About how many litres	Performing time
	s and 5	Fiji = 3 hours and 5 minutes.	k? red to flight times to Fiji and	eed to buy to fill the tan	of fuel does Deena no n Auckland airport. Ol	About how many litres	Performing time calculations
		minutes.		eed to buy to fill the tan ioli claims that compar	of fuel does Deena no n Auckland airport. Ol a takes the longest.	About how many litres Three flights leave fron Niue, the flight to Tong	
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	which could bliters. litres his is an stion, we red to find an er. Any ween 18 – 23 we been	bit notches, which could be about 28 liters. 48 – 28 = 20 litres Tip: Since this is an 'about' question, we aren't required to find an exact answer. Any answer between 18 – 23 L would have been			F	Doons knows that the	

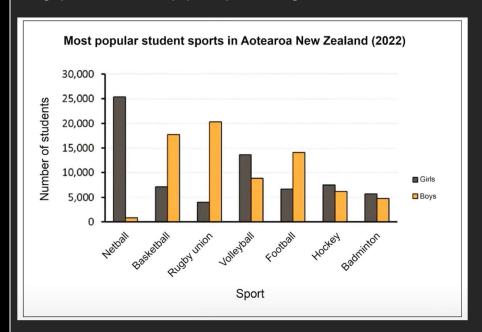
Working with timelines	This year it is 2023. Māori arrived in Aotearoa New Zealand around the year 1250.	(iii)	
timotinos	That is almost 800 years ago.	Tip: The best way to do	
		these is to find the	
		'halfway' point, and then estimate from there. The	
	0 (i) (ii) (iii) (iv) (v) 2023	halfway point for this	
	0 (1) (11) (11) (1V) 2023	timeline would be	
		between 0 and 2023, which is about 1000. (iii)	
	Select the answer that marks where 1250 would be on the timeline.	is chosen because it's a	
	Sauran Numaran CAA mast sugar Tarra 40000	little above 1000.	
Reading	Source: Numeracy CAA past exam, Term 4 2023 This chart shows the time required to progress from a learner to a restricted licence to a full	September 2023 (18	
charts/timetabl	licence.	months following).	
es			
	Learners Minimum 6 months Restricted Minimum 18 months Full		
	Restricted Minimum 12 months Full after Advanced Driving Course		
	Driving course		
	Pita passes her Learner Licence Test of the road code during March 2022, and then takes an		
	Advanced Driving Course. What is the earliest month and year she will be able to get her full		
	licence?		
	Source: Numeracy CAA past exam, Term 4 2022		
Perimeter/Area	Here is a diagram of a basketball court that measures 15 metres in width and 28 metres in length.	15 x 28 = 420 square	
		metres.	
	What is the area of the basketball court in square metres?		

Volume	Zion makes candles that are the sha	ape of rectangular prisms.	Option 1 = 8 x 4.5 x 4.5 =	
			162cm ³	
	To keep costs down, the candles car	nnot be too big.	Option 2 = 7.5 x 4 x 5 =	
			150cm ³	
	Option 1	Option 2	1000111	
	8 cm 4.5 cm Zion says that both options have a version say the version say that both options have a version say that both	7.5 cm 7.5 cm olume of 150cm³ or less. sing measurements from both options above.	No, Zion is not right. Only Option 2 has a volume of 150cm ³ or below.	
	Source: Numeracy CAA past exam, Term 4 20			
Understand	Lilly cuts pizzas so that each pizza h		Small pizza = 90	
angles			degrees (360 / 4)	
	Calculate the angle that is marked o	on each pizza.		
			Medium pizza = 60	
	angle	angle	degrees (360 / 6) Large pizza = 45 degrees (360 / 8)	
	Small pizza Medium pi	zza Large pizza		
	Source: Numeracy CAA past exam, Term 2 20	023		

Topic #5: Statistics and Data

Interpreting frequency tables/graphs, bar graphs and histograms

This graph shows the most popular sports among students in Aotearoa New Zealand in 2022.



What was the approximate total number of boys and girls playing basketball in 2022?

Source: Numeracy CAA past exam, Term 4 2023. Image: Courtesy of 'Infinity Plus One' on YouTube

Using the graph, approx. 18,000 boys and 7,000 girls played basketball.

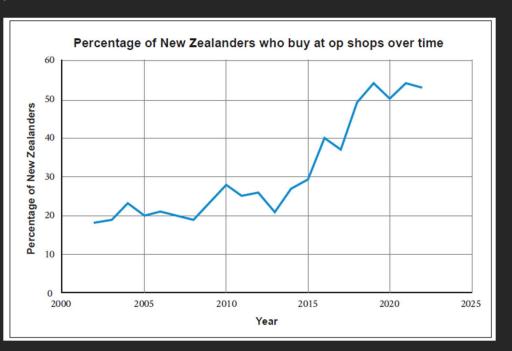
18,000 + 7,000 = **25,000**.

Tip: Since this question asks for an 'approximate' answer, we aren't required to find an exact answer. Any answer between 23,000 and 27,000 would have been accepted as correct.

Interpreting pie This pie chart shows Te Puke residents' responses in relation to a proposed new kiwifruit sculpture. Yes, the claim is justified. graphs 40% of people were How pleased are you about the design of the kiwifruit slices sculpture? 'happy' and 16% were very unhappy 'very happy' with the design, which together makes up 56% who were very happy Unhappy at least 'happy' (over half). not sure 32% Is the following claim justified? "Over half of people in the sample of Te Puke residents were pleased with the design." Explain your answer using the information provided. Source: Numeracy CAA past exam, Term 4 2022 Interpreting dot Mia is shaving her hair to raise money for charity. The amounts donated by plots school students are The graph shows the amounts given by Mia's donors. lower than the amounts donated by adults. Amounts given by Mia's donors The median amount donated by adults is School student about \$20, and the Adult median amount donated by school students is about \$15. 0 \$40 \$0 \$20 \$60 \$80 TIP: Comparing the medians is only one way to get full marks for this question. You How are the amounts donated by school students different from the amounts donated by adults? could also compare other Use numbers from the graph to support your answer. figures on the graph (e.g. min, max, clusters). Source: Numeracy CAA past exam, Term 2 2024

Interpreting time series graphs

A TV presenter claims the percentage of New Zealanders buying at op shows has tripled in the 20 years from 2002 to 2022.



Approx 18% in 2002, according to the graph.

Approx 53% in 2022, according to the graph.

18% x 3 = 54%, therefore the TV presenter is not quite right because it is not quite 54% in 2022.

TIP: The alternative conclusion can also be reached, depending what numbers are picked.

Is the TV presenter right?

Use information from the graph to say why you agree, or disagree, with their claim.

Source: Numeracy CAA past exam, Term 4 2024

Finding probabilities Here are 14 New Zealand birds: Rock Wren Kakapo Yellow-eyed Penguin Kereru Kea Kokako Bar-tailed Godwit Fairy Tern Yellowhead New Zealand Falcon Pukeko Kakariki Kiwi Saddleback One bird will be chosen randomly.	Topic #6: Probability					
What is the probability that the chosen bird has a name starting with K ? Use a percentage, decimal, or fraction. Source: Numeracy CAA past exam, Term 2 2023	Here are 14 New Zealand birds: Rock Wren Kakapo Yellow-eyed Penguin Kereru Kea Kokako Bar-tailed Godwit Fairy Tern Yellowhead New Zealand Falcon Rakariki Kiwi Saddleback One bird will be chosen randomly. What is the probability that the chosen bird has a name starting with K?	or 0.43 [= 6 / 14] or				

Sequences of	EXAMPLE 1:	EXAMPLE 1:
events		
	In a coin toss, Sarah usually picks "heads". But the last three tosses have all come up "tails".	Either choice is
		acceptable. It doesn't
	Should Sarah choose "heads" or "tails" for the fourth toss, or is either choice acceptable?	matter what has
		happened in the past,
	Explain your answer using ideas about probability.	there is still a 50%
		chance that Sarah
	Source: Numeracy CAA past exam, Term 2 2024	guesses the coin's
		outcome correctly.
	EXAMPLE 2:	EXAMPLE 2:
	Lucy plays basketball.	If Lucy takes 2 shots,
		there are 4 equally
	Including all games she has played, her average success rate for free throws is 50%.	possible outcomes:
		1. Score, Score
	Lucy is taking two free throws, one after the other. She is very confident that one of her shots will	2. Score, Miss
	go in.	3. Miss, Score
		4. Miss, Miss
	Do you think she is right? Explain your answer using ideas about chance.	Lucy scores in 3 out of 4
		of these outcomes,
	Source: Numeracy CAA past exam, Term 4 2023	which is 75% (3 / 4 x
		100). Therefore, she is
		right.

That's it!

How did you do? Looking for some 1:1 help? Get in touch for a free first lesson.