Assessment Schedule – Term 2, Week 1, 2025

Numeracy: Apply mathematics and statistics in a range of everyday situations (32406)

Assessment Criteria

Outcome 1	Outcome 2	Outcome 3
Formulate mathematical and statistical approaches to solving problems in a range of everyday situations.	Use mathematics and statistics to meet the numeracy demands of a range of everyday situations.	Explain mathematical and statistical responses to situations.

Evidence

Question	Correct response / Judgment	Outcome			Scoring response	Validation		Mark A or H
ONE		1	2	3		**Type**	**Max characters**	
(a)	Must take a position of agree / disagree and support their decision with a correct calculation involving multiplication or division. The calculation can be inferred by the presence of 30,240. 3 weeks x 7 days x 24 hours x 60 minutes = 30,240 minutes. Agree: 30,240 minutes is close to 30,000. Disagree: 30,240 minutes is *NOT* 30,000.			✓				H
(b)	29 º to 31 º range.	✓			29 30 31	Numeric	5	A
(c)	C. (0–100 m).	✓			ChoiceC	Multichoice		A
(d)	0.216 m^3 *(unit not required)*.		✓		0.216 .216	*Num w dec	8	A
(e)	12.6 kg *(unit not required)*.		✓		12.6 12.60	Num w dec	5	A
(f)	80 L *(unit not required)*.		✓		80 80.0	Num w dec	5	A

**Numeric with decimal*

Question	Correct response / Judgement	Outcome			Scoring response	Validation		Mark A or H
TWO		1	2	3		**Type**	**Max characters**	
(a)	Must take a position of agree or disagree. Must include numeric measurements from the size table. Disagree – Jack's arm length of 91 cm is at the lower end of the 'X-Large' category for sleeve length. Jack's chest measurement of 110 cm is at the upper end of the 'Large' category. Jack should choose X-Large as the sleeve length will be fine and the chest will be a bit loose. Agree – even though his arm measurement is in the X-Large category (91 to 93 cm), he would be better to get a 'Large' jacket as his chest measurement is in the large category (106 to 111 cm) and Jack may prefer a tighter fit (to keep him warmer). Disagree – even though his chest measurement of 110 cm is in the 'Large' category, he could get an 'X-Large' jacket because his arm length of 91 cm is in the 'X-Large' range, that way he doesn't have short sleeves. *Or similar answer which includes measurements.*			✓				H
(b)	$141.75		✓		141.75	Num w dec	7	A
(c)	(iii) −6 ºC – −1 ºC		✓		ChoiceC (iii)	Multichoice		A
(d)	Yes / it is true / agree. Must show comparison between either two or three jackets, for all three attributes (FQ, weight and cost). The blue jacket has the highest FQ of 800 yet is the lowest weight of 450 g and the highest price of $439. The red jacket is the opposite – lowest FQ of 400 yet is the heaviest at 620 g and the lowest price of $179. *Need to have all three numbers for at least two jackets to make the comparison.*			✓				H
(e)	17.9 ºC (15.1 – −2.8) *(unit not required*).		✓		17.9 17.90	Num w dec	5	A
(f)	Agree. Must note the seasonal trend with reference to either: A **visual** feature of the graph, e.g., a peak / high in the cooler months and a trough/low in the warmer months.			✓				H

	An **argument** based on month and sales association, e.g., in June and July, the monthly sales of jackets is over 60, but in December and January, the monthly sale of jackets is below 40. Agree, there is a repeating pattern where more jackets are sold in the colder months as the line is highest in those months, while the smallest number of jackets are sold in warmer months as the line is lowest then. Yes, around 70 jackets were sold in June and 60 in July. In February, sales are less than 20 jackets.							

Question	Correct response / Judgment	Outcome			Scoring response	Validation		Mark A or H
THREE		1	2	3		**Type**	**Max characters**	
(a)	States a supermarket and a specific time, e.g., 1 p.m., or a time period, e.g., 1 p.m. to 3 p.m. (Must be between 12 p.m. – 3 p.m.). Student may select either option by stating bars are higher at these times, indicating more customers: Supersave 12 p.m. to 2 p.m. because the bars are higher meaning more people; or Pricemart 1 p.m. as this is the highest bar (infers most people).			✓				H
(b)	$2.25 (0.685 x $3.29).		✓		2.25	Num w dec	7	A
(c)	24 cm *(unit not required*). Working: 192 − 144 = 48 / 2 = 24.		✓		24	Num w dec	6	A
(d)	Must take a position that the 1 kg block is cheapest per 100 g. Shows clear evidence of correct calculations with rates which might include cost per 100 g. Calculation can be inferred if they give the correct prices for 100 g. Example: 1 kg block is $13.79, so 100 g is $1.379 (or $1.38). 500 g is $8.19, so 100 g is $1.638 (or $1.64). 250 g block is $6.19, so 100 g is $2.476 (or $2.48). The larger the block of cheese, the better value it is per unit weight of 100 g. May compare each by doubling the price of the 500 g block and quadrupling the price of the 250 g block. Example: 250 g is $6.19, so x4 gives $24.76. 500 g is $8.19, so x2 gives $16.38. 1 kg is cheapest at $13.79.			✓				H
(e)	(iii)	✓			ChoiceC (iii)	Multichoice		A
(f)	56 / 56.25 / 57 feeds. Working: 900 ÷ 16 = 56.25 feeds.		✓		56 56.25 57	Num w dec	11	A

Question	Correct response / Judgment	Outcome			Scoring response	Validation		Mark A or H
FOUR		1	2	3		**Type**	**Max characters**	
(a)	(iii)	✓			ChoiceC (iii)	Multichoice		A
(b)	(i) Eyes; (v) Noses. *Two correct, with no incorrect guesses.*	✓			ChoiceA (i) ChoiceE (v)	Multichoice		A
(c)	19 hours. (988 / 52).		✓		19	Numeric	2	A
(d)	25%	✓			25	Numeric	4	A
(e)	Disagree. Must compare decimals within the argument. May use informal rules for ordering decimals, such as distance of non-zero digits from the decimal point. Amazon gives the third highest payment after Tidal and Apple Music. Tidal gives the highest payment at 0.013. 0.013 (or 1.3 cents) which is higher than 0.00402 (0.40 cents).			✓				H
(f)	(i) and (iv). *Two correct, with no incorrect guesses.*		✓		ChoiceA (i) ChoiceD (iv)	Multichoice		A

Question	Correct response / Judgment	Outcome			Scoring response	Validation		Mark A or H
FIVE		1	2	3				
(a)	2.8		✓		2.8 2.80	Num w dec	4	A
(b)	6.4 kg *(unit not required*).		✓		6.4 6.40	Num w dec	4	A
(c)	E	✓			ChoiceE	Multichoice		A
(d)	250 m. Accept 245 m to 255 m.		✓		245–255	Numeric	4	A
(e)	Agree. Must state (approximate) percentages from the bar graph. Percentages can be from the three individual foods or are added (combined). In spring and summer, squid (about 34%), octopus (about 18%), and anchovy (about 40%) make up a combined (approx.) 92% of the food that fur seals eat. Eel, mackerel, and hoki make up less than 10% of food eaten by fur seals in spring and summer.			✓				H
(f)	100 km to 120 km *(unit not required*).	✓			100–120	Numeric	4	A