Assessment Schedule – Term 2, Week 2, 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 40,320. 4 weeks x 7 days x 24 hours x 60 minutes = 40,320 minutes. Agree: 40,320 is close to 40,000. Disagree: 40,320 is *NOT* 40,000.			✓				H
(b)	29 º to 31 º range.	✓			29 30 31	Numeric	5	A
(c)	C. (0 to 200 m).	✓			ChoiceC	Multichoice		A
(d)	0.42 m^3 *(unit not required)*.		✓		0.42 .42	*Num w dec	8	A
(e)	9 kg *(unit not required)*.		✓		9.0 9	Num w dec	5	A
(f)	60 L *(unit not required)*.		✓		60 60.0	Num w dec	5	A

**Numeric with decimal*

Question	Correct response / Judgment	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. Agree – Jack's arm length of 88 cm is the upper measurement of the 'Medium' category (86 to 88). Jack's chest measurement of 110 cm is at the upper end of the 'Large' category (106 to 111). Jack should choose 'Large' even though the sleeve length will be a little long, the chest measurement will fit. Disagree – because his arm measurement of 88 cm is in the medium category (86 to 88), he should get a medium-sized jacket. *Or similar answer which includes measurements.*			✓				H
(b)	$125.30		✓		125.30 125.3	Num w dec	7	A
(c)	(iv) −20 ºC – −6 ºC		✓		ChoiceD (iv)	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)	19.6 ºC (13.4 – −6.2) *(unit not required*).		✓		19.60 19.6	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. 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 the highest in those months, while the smallest number of jackets are sold in late warmer months as the line is the lowest in those months.			✓				H

	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)	$2.50 (0.76 x $3.29).		✓		2.5 2.50	Num w dec	7	A
(c)	24 cm *(unit not required)*. Working: 1.92 − 1.44 = 48 / 2 = 24.		✓		24	Num w dec	6	A
(d)	No, the 500 g block is not the best value. 1 kg block is $13.79. A 500 g block should be half that price but is $8.19 (should be $6.90 if half of 13.79). The 250 g block should be one quarter of the price but is $6.19 (should be $3.45). The larger the block of cheese, the better value it is per unit weight. Can compare two or three, as long as $ and g is compared. 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). *Or similar answer using $ values and weight.*			✓				H
(e)	(ii)	✓			ChoiceB (ii)	Multichoice		A
(f)	62 / 62.5 / 63. Calculation: 900 g (total in container) ÷ 14.4 g = 62.5.		✓		62 62.5 63	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)	(ii)	✓			ChoiceB (ii)	Multichoice		A
(b)	(i) Eyes; (v) Noses. *Two correct, with no incorrect guesses.*	✓			ChoiceA (i) ChoiceE (v)	Multichoice		A
(c)	17 hours per week. (884 / 52) *(units not required*).		✓		17	Numeric	2	A
(d)	35%	✓			35	Numeric	4	A
(e)	Agree. Must compare decimals within the argument. May use informal rules for ordering decimals, such as distance of non-zero digits from the decimal point. Tidal is the only platform that has a positive number in the 0.0 grouping. Tidal gives the highest payment at 0.013. 0.013 (or 1.3 cents) 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		**Type**	**Max characters**	
(a)	**3.5** times longer.		✓		3.5 3.0	Num w dec	4	A
(b)	**5.92** or 5.9 kg *(unit not required).*		✓		5.9 5.92	Num w dec	4	A
(c)	A	✓			ChoiceA	Multichoice		A
(d)	145 to 155 metres below sea level *(unit not required).*		✓		145–155	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 autumn and winter, squid (about 17%), mackerel (about 24%), and hoki (about 31%) make up a combined (approx.) 70% of the food that fur seals eat. Octopus, anchovy, pilchard, and eel make up less than 30% of food eaten by fur seals in autumn and winter.			✓				H
(f)	85 km to 105 km *(unit not required).*	✓			85–105	Numeric	4	A