



Numeracy 2025 v1.2

IA option D: Sample assessment instrument

This sample has been compiled by the QCAA to assist and support teachers in planning and developing assessment instruments for individual school settings.

Student name	sample only
Student number	sample only
Teacher	sample only
Exam date	sample only

Marking summary

Criterion	Marks allocated	Provisional marks
Numeracy	25	
Overall	25	

Conditions

Technique	Examination — short response
Topic/s	Topic 2: Workplace and employment
Time	45 minutes + 5 minutes perusal
Seen / Unseen	Unseen questions
Other	Only the QCAA formula book must be provided Notes are permitted.

Instructions

- Show all working in the space provided.
- Write all answers using black or blue pen or pencil.

Question 1 (1 mark)

Peter spends \$550 per week on work expenses. 20% of the work expense is spent on petrol.
Calculate how much money per week Peter spends on petrol.

Question 2 (1 mark)

A salon pays rent of \$350 per week, which is $\frac{1}{2}$ of the weekly income.

How much is the salon's weekly income?

Question 3 (1 mark)

A truck travels at 60 km/h.

How many hours will it take the truck to drive 240 km?

Question 4 (1 mark)

A rectangular tile is 9 cm long and 8 cm wide.
What is the area of one rectangular tile in cm^2 .

Question 5 (2 marks)

The bill for three customers is shown.

Item	Cost
Burger	\$20.45
Steak	\$40.85
Sandwich	\$17.00

- a. What is the total cost of the bill.

The three customers decide to split the bill equally.

- b. How much should each customer pay?

Question 6 (1 mark)

A shipping container is 8 m long, 3 m wide and 2.5 m high.

What is the volume of the shipping container in m^3 ?

Question 7 (1 mark)

A floor is 4.8 m wide and 12 m long.

What is the perimeter of the floor in m?

Question 8 (1 mark)

The table shows Tim's work roster for Monday and Thursday.

Day	Start time	Finish time
Monday	08:00	12:30
Thursday	14:30	19:30

What is Tim's total rostered time?

Question 9 (1 mark)

Peta lives 45 minutes from her work.

When should Peta leave home to arrive at work at 8:15 am?

Question 10 (1 mark)

The capacity of a jug is 1800 mL.

Convert the capacity to L.

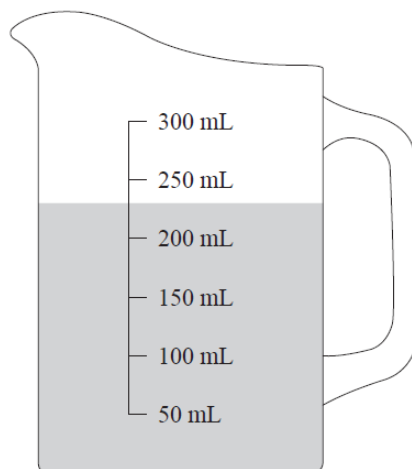
Question 11 (1 mark)

The volume of a freezer is 0.8 m^3 .

Convert the volume to cm^3 .

Question 12 (1 mark)

A chef uses a jug as shown.



Not to scale

Estimate the amount of liquid in the jug in mL

Question 13 (2 marks)

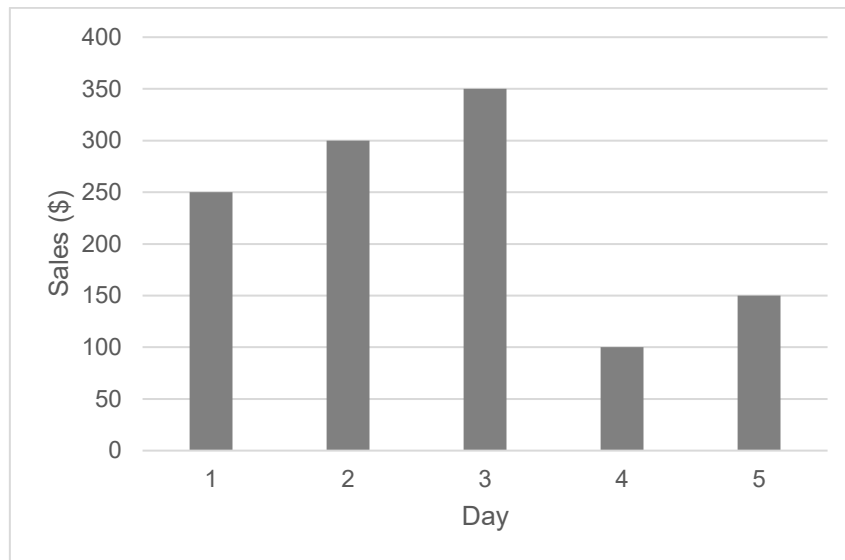
A customer has a voucher that states 'Discount of 15%'.

Their total bill is \$178.40.

What is the discount amount?

Question 15 (2 marks)

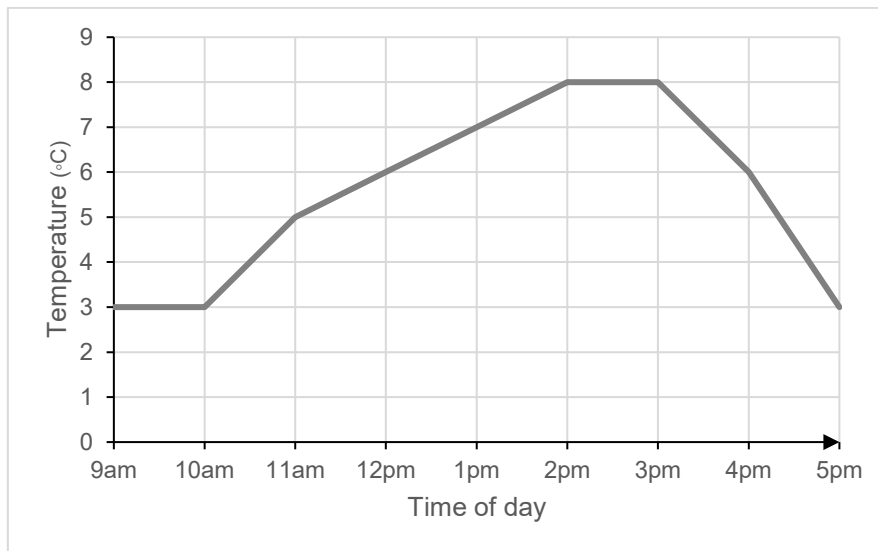
The bar graph shows the sales (\$) for 5 days.



- Which day has the highest sales?
- Calculate the total sales (\$) for the 5 days.

Question 16 (3 marks)

The line graph shows temperatures in a cold room during a day.



- What is the temperature at 2 pm?
- What is the coldest temperature shown?
- Calculate the change in temperature from 10 am to 2 pm.

Instrument specific standards (Internal assessment option D)

Numeracy	Cut-off	Grade
The student response has the following characteristics:		
<ul style="list-style-type: none"> • Identification and interpretation of comprehensive mathematical information. • Use and application of comprehensive mathematical knowledge. • Communication and representation of comprehensive mathematical knowledge. 	> 80%	A
<ul style="list-style-type: none"> • Identification and interpretation of thorough mathematical information. • Appropriate use and application of thorough mathematical knowledge. • Appropriate communication and representation of thorough mathematical knowledge. 	> 60%	B
<ul style="list-style-type: none"> • Identification and interpretation of mathematical information. • Use and application of mathematical knowledge. • Communication and representation of mathematical knowledge. 	> 40%	C
<ul style="list-style-type: none"> • Identification and interpretation of partial mathematical information. • Use and application of partial mathematical knowledge. • Communication and representation of partial mathematical knowledge. 	> 20%	D
The student response does not match any of the descriptors above.	≥ 0%	E

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