



**Adult Education and Training (AET)
Site-Based Assessment
Portfolio of Evidence**

Mathematical Literacy: NQF Level 1
Total: 50 marks
Duration: 3 hours
Task 4: Test

Learner Information

Name : _____
Surname : _____
**Identity/
Passport Number** : _____
Employee Number : _____
Company : _____
Centre : _____
Date : _____

Declaration

I declare that this portfolio of evidence is my own work: _____

Signature



INSTRUCTIONS

1. Answer **ALL** the questions in the space provided.
2. Write in blue or black pen only.
3. Calculators may be used but ALL calculations must be shown.
4. Round off your answers to TWO decimal places, unless otherwise stated.
5. Write your answer in the simplest form.
6. Learners are to complete the Test under strict exam conditions as a form of preparation for the final/summative examinations.



Question 1

Circle the letter of the correct answer for Questions 1.1 and 1.2.

1.1 $3^2 \times 3^3 =$

A 3^6

B 3^5

C 9^6

D 9^5

(1)

1.2 Convert 2,17 to a common fraction.

A $2\frac{17}{10}$

B $21\frac{7}{10}$

C $2\frac{17}{100}$

D $\frac{217}{100}$

(1)

1.3 Arrange the following numbers in ascending order: 43%; $\frac{13}{20}$; 4,29; 0,429

(1)

1.4 Calculate: $\sqrt{\frac{27}{6}} \times \sqrt{50}$. Show working.

(3)



1.5 Determine the value of: $600 - (1 - 4)^3$. Show working.

(3)

1.6 Calculate the following and show your working.

(a) $1\frac{4}{5} \div 3$

(3)

(b) 110% of 10

(1)

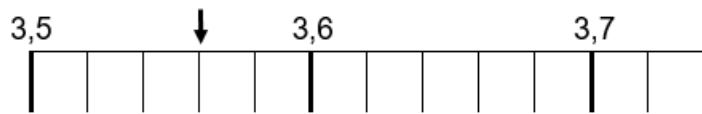
1.7 Fill in the missing number:

(a) $3\,654\,000 - \underline{\hspace{2cm}} = \text{three and a half million}$

(1)



(b) What decimal fraction is indicated by the arrow?



(1)

(c) 8 months is (**less than** or **greater than**) 300 000 minutes.

(1)

(d) $\frac{3}{5}$ of _____ = 150

(1)

(e) Write in simplest form: $180 : 40 =$ _____ : _____

(1)

1.8 Share 360 in the ratio 5 : 4. Show working.

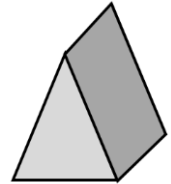
(2)

[20 marks]

Question 2

2.1 Sipho has some solid metal objects. Refer to the diagrams and answer the questions.

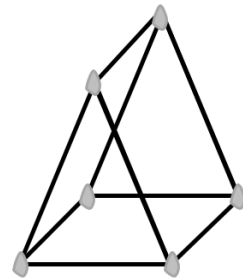
(a) Name the solid shown in the diagram.



(1)

(b) Sipho makes a model of the solid, as shown. He uses match-sticks and puts them together with small pieces of clay, as shown.

How many pieces of clay does he need for this model?

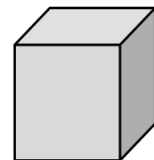


(1)

(c) Sipho wants to make a model of the solid shown.

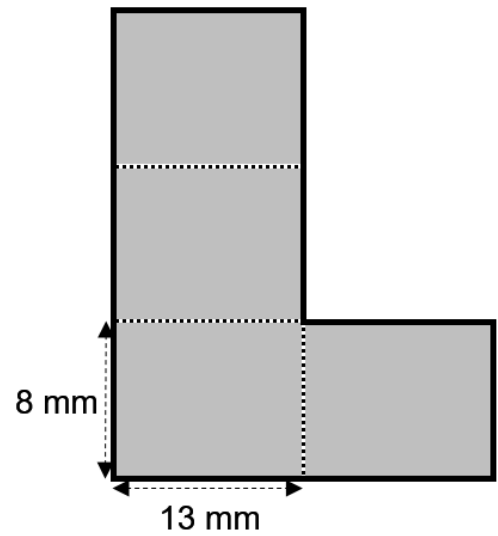
How many lumps of clay will he need?

He will need _____ lumps of clay



(1)

- 2.2 The shape in the diagram is made up of four rectangles.



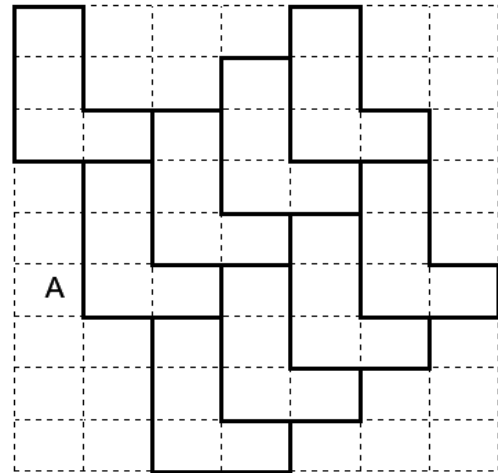
- (a) Determine the perimeter of the shape. Show working.

(2)

- (b) Determine the area of the shape. Show working.

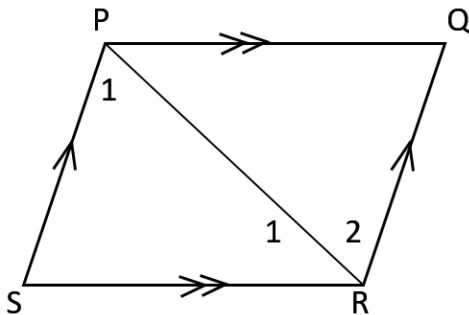
(3)

- (c) Draw one shape at A to continue the repeating pattern.



(2)

- 2.3 The perimeter of PQRS is 14,8 cm and length PS = 2,4 cm.



- (a) Name the quadrilateral PQRS. _____

(1)

- (b) What type of angle is \hat{P}_1 ? Circle the correct answer.

- A Reflex
- B Obtuse
- C Acute

(1)

(c) Circle the angle which is equal to \hat{P}_1 in the list below.

A \hat{Q}

B \hat{R}_1

C \hat{R}_2

(1)

(d) Which side is equal to PS? _____

(1)

(e) Determine the length of PQ. Show working.

(4)

[18 marks]

Question 3

3.1 Andile travels from his home to work, a distance of 22,5 km. He leaves home at 06:50. At what time does he get to work, if he travels at a speed of 75 km/h?

Show all your calculations.



(3)

- 3.2 Andile's map shows 22,5 km as a length of 45 mm. The distance from his work to the city centre is 60 mm on the map. What is the actual distance from his work to the city centre?

(2)

[5 marks]

Question 4

- 4.1 Wandile opens a special savings account for her son's medical expenses. Family and friends make deposits to help her.

The deposits made are: R600; R1 200; R50; R3 000; R1 300; R920.

- (a) Determine the mean deposit.

(2)

- (b) If the total deposited amount is invested at an interest rate of 6% per year, what is the final amount at the end of 3 years?

(2)

[4 marks]



Question 5

- 5.1 Refer to the stem and leaf chart showing the body mass in kg of a group of 25 people.

Male	Tens	Female
3 2	10	2 4
7 2	9	0 1
7	8	3 6 9
6 3	7	1 4
8 6 5 2	6	3 3 8
	5	8 9

- (a) How many males have a mass of over 80 kg?

(1)

- (b) If a person from the group is selected at random, what is the probability that it will be a female of mass between 60 kg and 80 kg?

(2)

[3 marks]

GRAND TOTAL: 50 MARKS

END OF TEST



Total for Task 4: 50 Marks

	Question	Maximum Mark	Learner's Mark	Moderated Mark
Task 4	Question 1	20		
	Question 2	18		
	Question 3	5		
	Question 4	4		
	Question 5	3		
	Total: Task 4	50		

