

INSTRUCTIONS

1. This test consists of **3 QUESTIONS**.
2. Adhere to the numbering used in this test.
3. Answer **ALL** the questions in the space provided.
4. Write in blue or black pen only.
5. Calculators may be used but ALL calculations must be shown.
6. Round off your answers to TWO decimal places, unless otherwise stated.
7. Write your answer in the simplest form.
8. 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, 1.2, and 1.3.

1.1 $2^4 \times 2 =$

A 2^4

B 2^5

C 4^4

D 4^5

(1)

1.2 Determine the mode of the following set of numbers:

1 2 2 3 7 9

A 2

B 3

C 6

D 8

(1)

1.3 2 years is approximately how many hours?

A 2 000

B 20 000

C 200 000

D 2 000 000

(1)

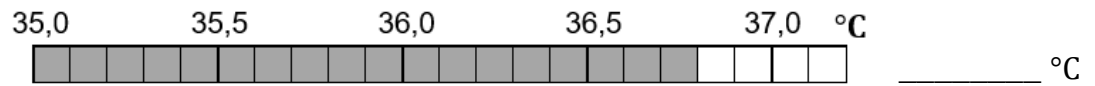


1.4 Determine the median of the following numbers. Show working.

16 5 10 18 13 23 1 7 32 6

(3)

1.5 Look at the shaded part of the scale. What temperature is indicated? Fill in the correct answer in degrees Celsius.



(1)

1.6 Arrange the following numbers in descending order (from biggest to smallest):

5,19; 51,9%; $5\frac{1}{9}$; 0,5189

(1)

1.7 40% of _____ = 240. Show working.

(2)

1.8 Write $\frac{5}{8}$ as a decimal fraction.

(1)

1.9 Write in words: 20 350 016

(1)

- 1.10 Sihle mixes red and yellow paint in the ratio of 3 parts red to 4 parts yellow to make orange paint. If she mixes 21 litres of paint, how many litres of red paint does she use? Show working.
-
-
-

(3)

Total marks for Question 1

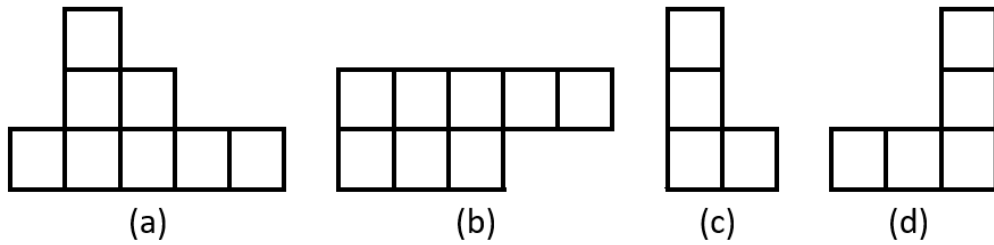
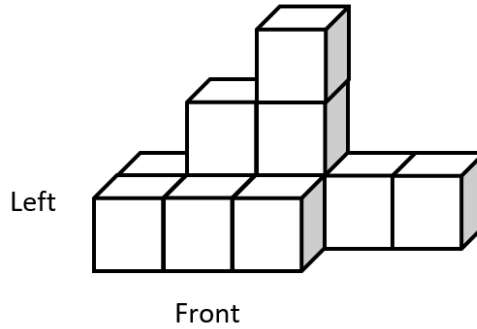
[15 marks]



Question 2

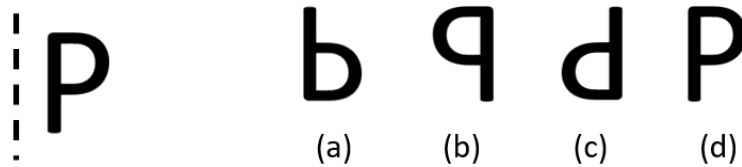
Circle the letter of the correct answer for Questions 2.1, 2.2, and 2.3.

2.1 Which diagram represents the view from the left?



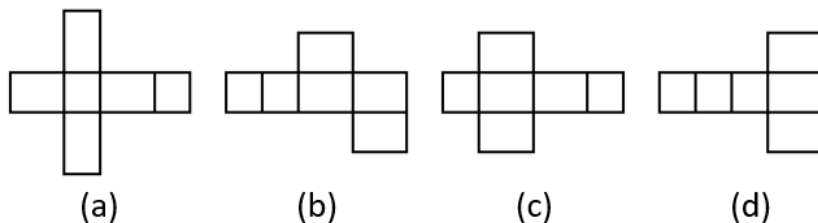
(1)

2.2 Which shape is the reflection of the letter P across the dotted line?



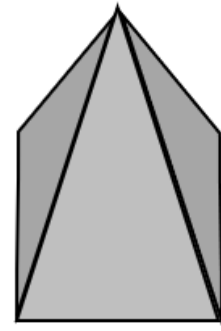
(1)

2.3 Which shape will give you a rectangular box if you cut it out and fold along the lines?



(1)

2.4 The base of the solid shown is a square. Refer to the diagram and answer the questions.



(a) Name the solid.

(1)

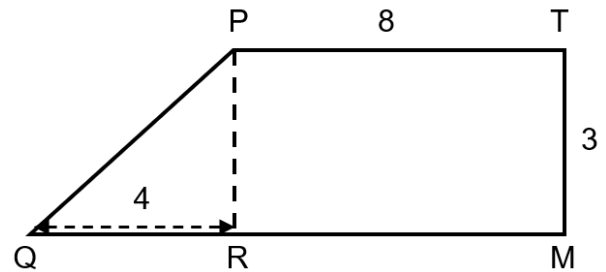
(b) How many vertices (corners) does the solid have?

(1)

(c) How many edges does the solid have?

(1)

2.5 PRMT is a rectangle with length 8 units and width 3 units. QRM is a straight line, and $QR = 4$ units.



(a) What type of triangle is PQR? Refer to the angles.

(1)

(b) Give the length of RM.

(1)

(c) Name the quadrilateral PQMT.

(1)

(d) Provide calculations to explain why $PQ = 5$ units. Give a reason.

(4)

(e) Determine the perimeter of PQMT. Show working.

(2)

(f) Determine the area of PQMT. Show working.

Formula: Area of triangle = $\frac{1}{2}bh$

(3)

Total marks for Question 2

[18 marks]



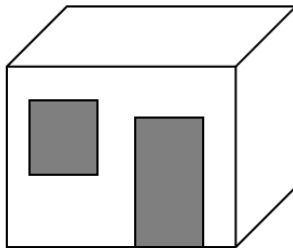
Question 3

A classroom is 12m long, 8m wide and 6m from the floor to the ceiling.

3.1 Determine the volume of the classroom. Show your working.

(2)

3.2 The diagram shows a three dimensional view of the classroom. The front wall has a door and one window.
Draw a sketch of the *front* view of the classroom. You do not have to draw to scale.



Front view:

(2)

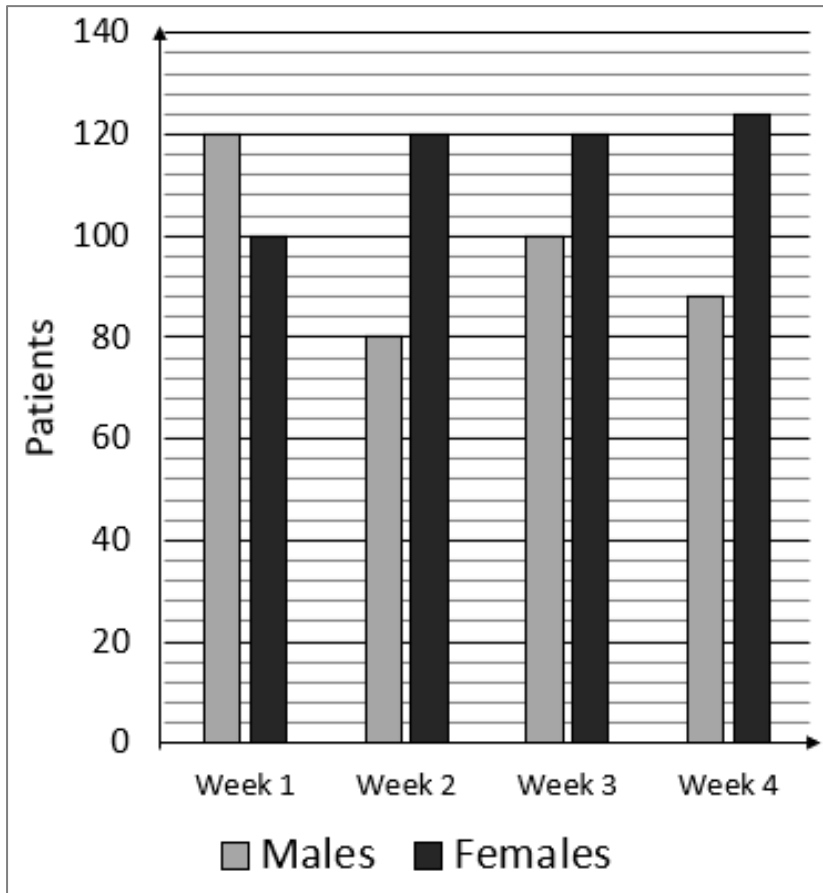
3.3 The front wall is to be painted. The door is 1 m by 2 m and the window is a square with side 1 m. Determine the total area of *wall* to be painted.

(5)

Total marks for Question 3**[9 marks]**

Question 4

The double bar chart shows the numbers of males and females vaccinated at a particular vaccination centre over four weeks.



4.1 Provide a suitable title for the bar chart. Write your answer in the space below.

(1)

4.2 In which week were the **lowest** number of females vaccinated?

(1)

4.3 How many males were vaccinated in the first two weeks? Show working.

(2)

- 4.4 How many more females than males were vaccinated in the fourth week?
Show working.

(2)

- 4.5 A patient's record is selected at random from the second week. What is the probability that the patient is a woman? Show working.

(2)

Total marks for Question 4

[8 marks]



GRAND TOTAL: 50 MARKS**Total for Task 4: 50 Marks**

Task	Activity	Maximum Mark	Learner's Mark	Moderated Mark
Task 4	Question 1	15		
	Question 2	18		
	Question 3	9		
	Question 4	8		
	Total: Task 4	50		

