Nanyang Primary School
Primary 5
Mathematics
Term 2 Weighted Assessment

Name: _____ (   )

Class: Primary 5 (   )

Date: _____   Parent's Signature: _____

Marks:
/20

Duration: 40 minutes

The use of an approved calculator is allowed.

Please sign and return the paper the next day. Any queries should be raised at the same time when returning paper.

Questions **1** to **2** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.   (4 marks)

1   Find the area of the shaded triangle.
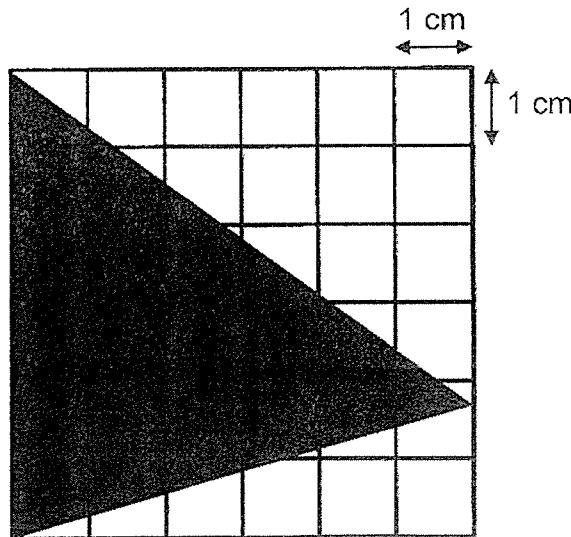
Ans: _____ cm^2

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2   In the figure below, ABCD is a rectangle.   AGB, BEC and DFC are straight lines.   DF = FC and BE = EC.   Find the total area of the shaded parts.
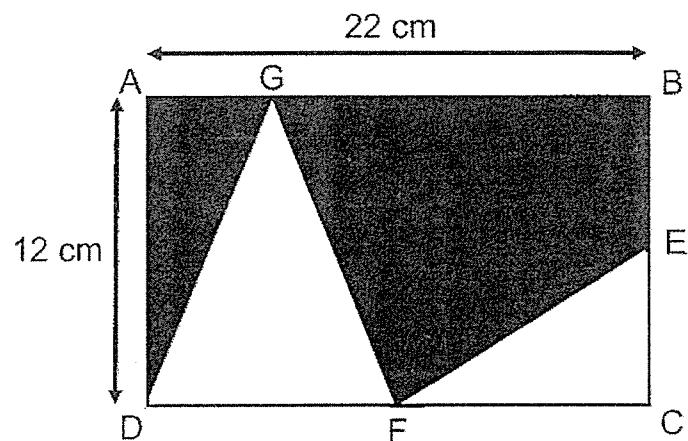
Ans: _____ cm²

For questions **3** to **6**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (16 marks)

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3 The figure below shows a solid made up of 1-m cubes.

Top View

Front View   Side View
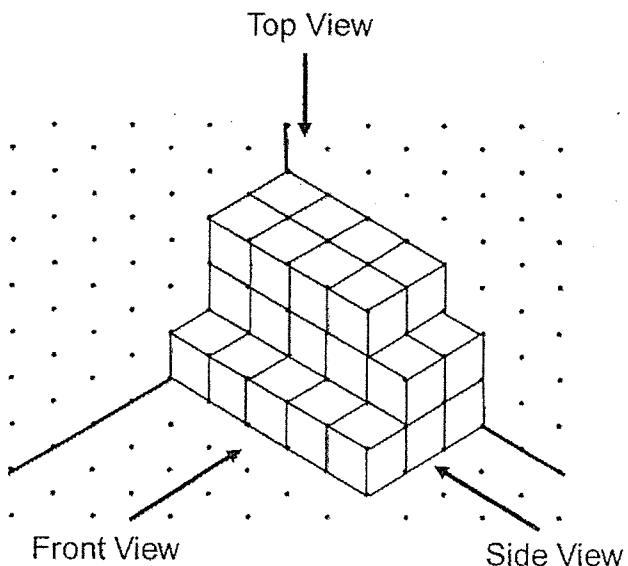
(a) Find the volume of the solid.

Ans: (a) _____ [1]

(b) Draw the front view and the side view of the solid on the grids below.

Front View   Side View

[2]

3
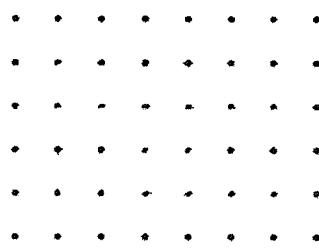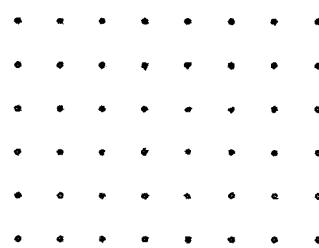
4   Sam, Abu and Ravi went jogging. They jogged 6100 m in total. Sam
     jogged 0.447 km more than Abu. Ravi jogged 0.8 km less than Sam.

   (a)   Express the total distance they jogged in kilometres.

                                          Ans: (a) _____ [1]

     (b)   How far did Ravi jog?

                                          Ans: (b) _____ [3]

4

5   A rectangular tank, measuring 40 cm by 20 cm by 12 cm, contained 2400 ml of water.
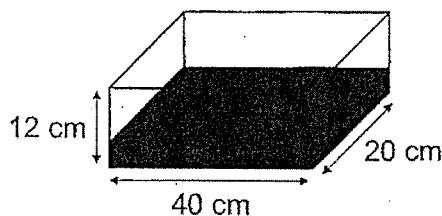
   (a)   What was the volume of the tank?

                                        Ans: (a) _____ [1]

   (b)   A cubical container was filled with water to the brim. Some of the water from the cubical container was poured into the tank until the tank was $\frac{3}{4}$ full. There were 1032 ml of water left in the cubical container.
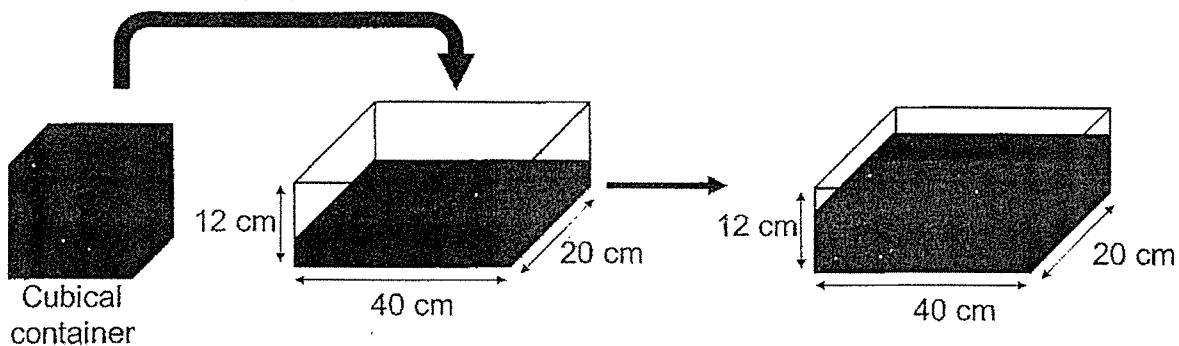
Cubical
container

       What was the capacity of the cubical container?
       Give your answer in ℓ.

                                        Ans: (b) _____ [3]

6　　The table below shows the charges for sending parcels.

Mass of parcel	Charge	
Up to 3 kg	$10	
Up to 5 kg	$18	
Up to 10 kg	$35	
More than 10 kg and up to 30 kg	First 10 kg	$35
	Every additional kilogram or less	$4.50

(a) Nancy sent two parcels with the mass of 4.6 kg and 12.5 kg. How much did she pay altogether?

Ans: (a) _____ [2]
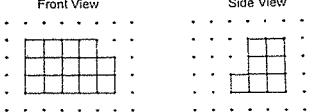
(b) Mrs Siva wants to send 35 kg of rice to her shop. As she cannot send any parcel with mass above 30 kg, she decides to pack them into 2 smaller parcels. What is the least possible amount of money she must pay to send her rice?

Ans: (b) _____ [3]

End of Paper

ANSWER KEY

YEAR   :   2024
LEVEL   :   PRIMARY 5
SCHOOL   :   NANYANG
SUBJECT   :   MATHEMATICS
TERM   :   WA 2

Q1	$\frac{1}{2}$ x 6 x 6 = 18	Q2	Area of △ DGF = $\frac{1}{2}$ x 11 x 12 $\\$ =66cm^2 $\\$ Area of △ EFC = $\frac{1}{2}$ x 6 x 11 =33cm^2 $\\$ Area of △ BCD = 22 x 12 = 264 cm^2 $\\$ **Total area of shaded parts** $\\$ 264 − 66 − 33 = 165cm^2
Q3	a) **33m^2** b)	Q4	a) 6100m = (6100 ÷ 1000)km $\\$ =6.1km b) 6.1 + 0.447 + 0.8 = 7.347 $\\$ 7.347 ÷ 3 = 2.449 $\\$ 2.449 − 0.8 = 1.649km
Q5	a) 12 x 40 x 20 = 9600cm^3 b) $\frac{3}{4}$ x 9600 = 7200 $\\$ 7200 − 2400 = 4800 $\\$ 4800 + 1032 = 5832 $\\$ 5832ml = (5832÷1000)ℓ $\\$ =5.832 ℓ	Q6	a) 4.6kg parcel → \$18 paid $\\$ 12.5kg parcel $\\$ → up to 10kg : \$35 $\\$ → remaining (12.5-10=2.5) $\\$ \$4.50 X 3 = \$13.50 $\\$ 18 + 35 + 13.50 = \$66.50 b) First 10kg : \$35 $\\$ Next 15kg : 15x4.50= 67.50 $\\$ Total = 35 + 67.5 =102.5 $\\$ Total for 35kg parcel $\\$ =102.5 + 35 = \$137.50

END