Nan Hua Primary School
Primary 5 Mathematics
Term 1 Weighted Assessment 2023
Paper 1

Marks	
Section A:	/10
Section B:	/10
Total:	20

Name: _____ ( )

Class: Primary 5M ____

Date: _____

Duration: 25 min

_____
Parent's Signature

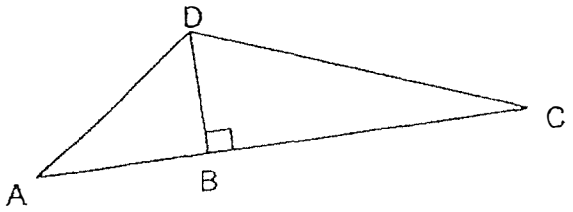
Answer all questions. The use of calculators is NOT allowed.

Section A

Questions **1** to **6** carry 1 mark each. Questions **7** to **8** carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and write your answer in the bracket provided.

(10 marks)

1 Which of the following is the base of the triangle ACD given that the height is BD?



(1) AB

(2) BC

(3) AC

(4) AD

( )

2 6 : 8 = ____ : 72

What is the missing number in the blank?

(1) 9

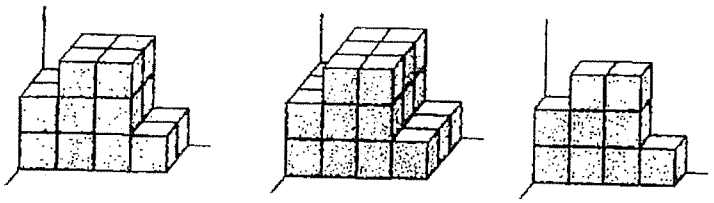
(2) 12

(3) 54

(4) 96

( )

3 John uses unit cubes to form the solids below. What is the ratio of the volume of Solid A to the volume of Solid B to the volume of Solid C?



A B C

(1) 1 : 2 : 3

(2) 2 : 3 : 1

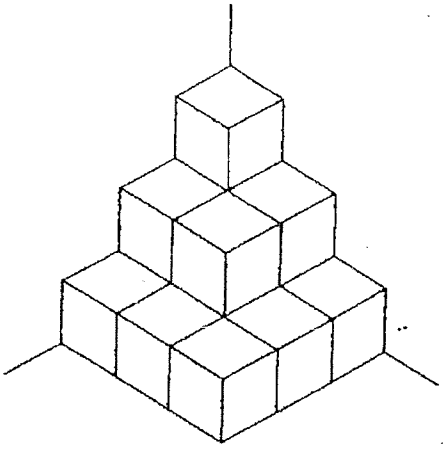
(3) 1 : 2 : 6

(4) 2 : 3 : 6

( )

4 The following solid is made up of 1-cm cubes.

What is the volume of the solid?



(1) 9 cm^3

(2) 10 cm^3

(3) 14 cm^3

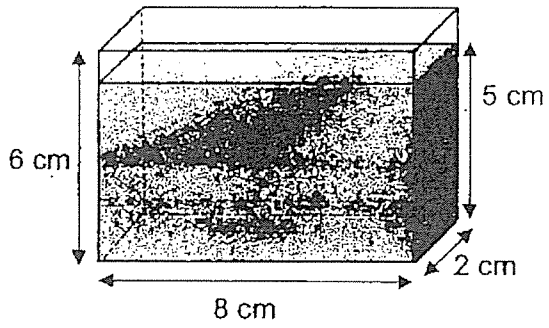
(4) 15 cm^3

( )

5 A roll of ribbon is cut into three pieces in the ratio 2 : 3 : 7. The shortest piece is 24 cm. Find the original length of the roll of ribbon.

(1) 8 cm
(2) 12 cm
(3) 96 cm
(4) 144 cm ( )

6 A rectangular container 8 cm long, 2 cm wide and 6 cm high is filled with water to a depth of 5 cm. Find the volume of water in the container.



(1) 60 cm^3
(2) 80 cm^3
(3) 96 cm^3
(4) 240 cm^3 ( )

7 The ratio of the number of Mary's stickers to the number of Nancy's stickers was 1 : 5. They have a total of 102 stickers. How many more stickers does Nancy have than Mary?

(1) 17

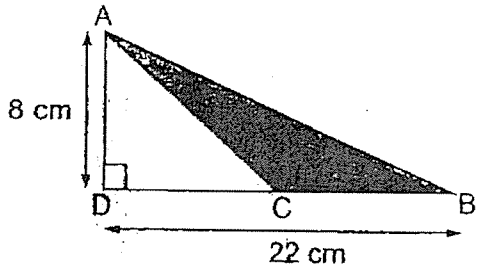
(2) 51

(3) 68

(4) 85

( )

8 In the figure below not drawn to scale, DCB is a straight line and DC = CB. What is the area of the shaded triangle?



(1) 11 cm^2

(2) 44 cm^2

(3) 88 cm^2

(4) 176 cm^2

( )

Section B

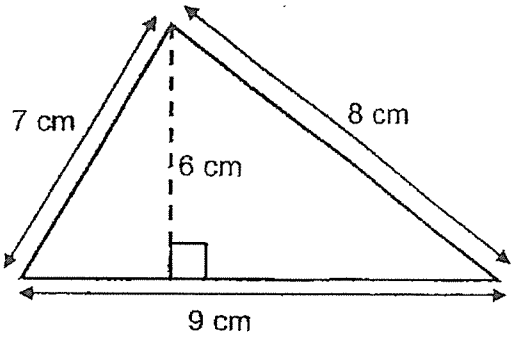
Questions 9 and 10 carry 1 mark each. Questions 11 to 14 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

9 200 people went to a carnival. 46 of them are female. What is the ratio of the number of males to the number of females in the simplest form?

Ans: _____

10 Find the area of the triangle.



Ans: _____ cm^2

11 The figure below shows Cuboid A. Draw another cuboid such that the volume is thrice that of Cuboid A on the isometric grid provided.

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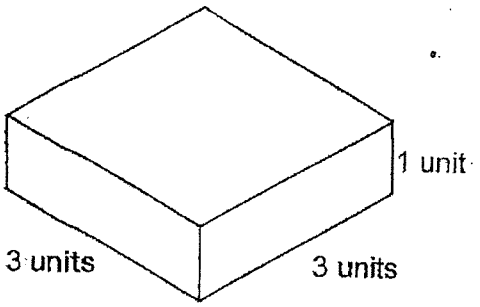
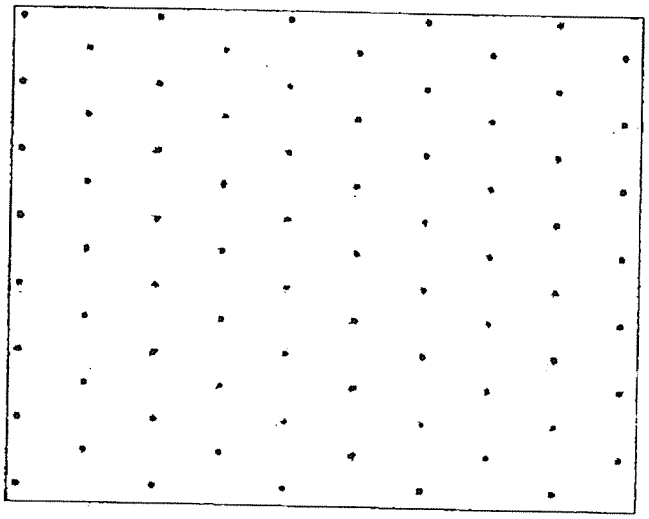
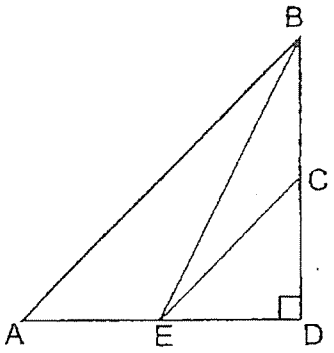


Cuboid A



12 Triangle ABD is made up of triangles ABE, BEC and CED. AE = ED and BC = CD. The area of triangle BEC is 16 cm^2.

What is the area of triangle ABD?



Ans: _____ cm^2

Do not write in this space

13 Mrs Chew had 256 nuggets and hashbrowns. The ratio of the number of nuggets to the number of hashbrowns was 3:1. She sold 130 nuggets and 22 hashbrowns. Find the ratio of the number of nuggets left to the number of hashbrowns left. Give your answer in the simplest form.

Ans: _____

14 Tank A measuring 40 cm long 20 cm wide and 30 cm high was $\frac{1}{2}$ - filled with water. How many buckets of capacity 4 ℓ are needed to fill the tank to the brim?

Do not write in this space

Ans: _____

------ End of Paper ------

Nan Hua Primary School
Primary 5 Mathematics
Term 1 Weighted Assessment 2023
Paper 2

Marks	
Total:	/15

Name: _____ ( )

Class: Primary 5M _____

Date: _____

Duration: 25 min

_____
Parent's Signature

Answer all questions. The use of an approved calculator is allowed.

For questions 1 to 4, 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. For questions which require units, give your answers in the units stated. (15 marks)

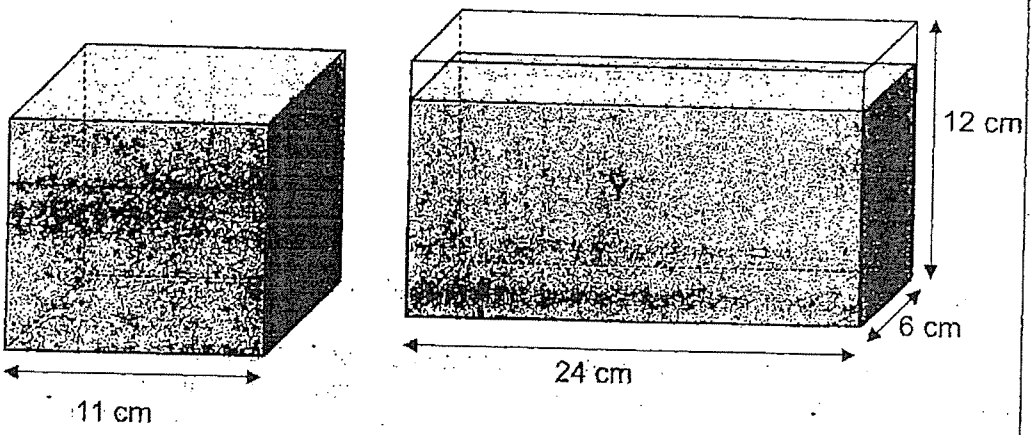
Do not write in this space

1 At a party, there were 24 adults. The number of children was twice the number of adults. There were 18 more boys than girls. Find the ratio of the number of girls to the number of boys to the number of adults in the simplest form.

Ans: _____ [3]

2 Container X is a cubical tank of edge 11 cm. It was completely filled with water. The water was then poured into Container Y. How much more water was needed to fill Container Y to the brim? Give your answer in milliliters.

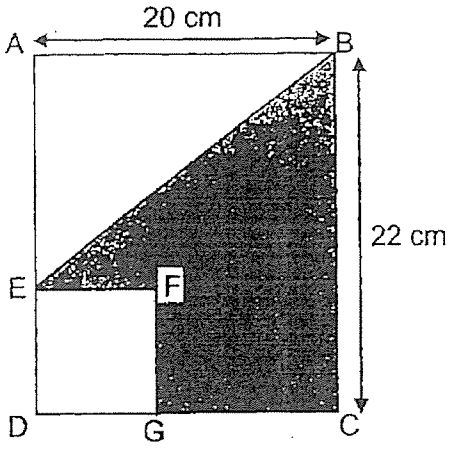
Do not write in this space



Ans: _____ [4]

3 ABCD is a rectangle and DEFG is a square with an area of 64 cm².

Find the total area of the shaded part.



Do not write in this space

Ans: _____ [4]

4 ABCD is a square with sides 14 cm and DE = EC. Triangle AFD and triangle BEF have a total area of 66 cm^2, find the area of the shaded triangle DEF.

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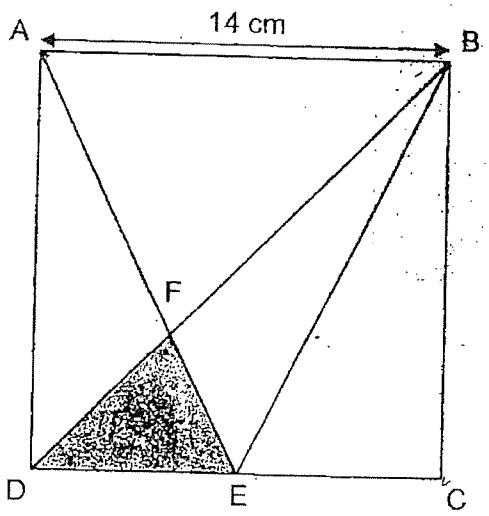

Ans: _____ [4]

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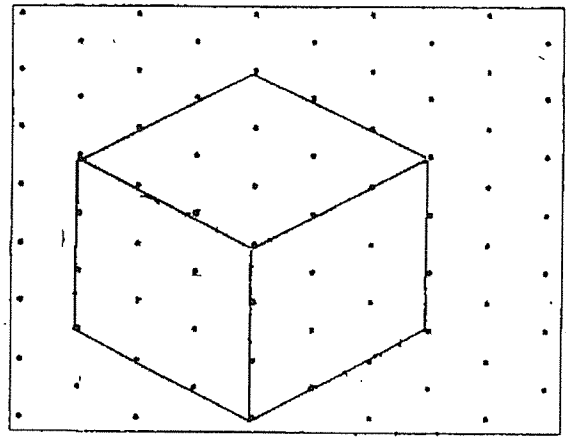
Nan Hua Primary School
Primary 5 Mathematics
Term 2 Weighted Assessment 2023

Paper 1 Section A

No.	Answer
1	(3)
2	(3)
3	(2)
4	(3)
5	(4)
6	(2)
7	(3)
8	(2)

Paper 1 Booklet B

No.	Answer	Mark	Remarks
9	200 – 46 = 154 M : F 154: 46 **77: 23**		
10	$\frac{1}{2}$ x 9 x 6 = **27**		

No.	Answer
11	
12	16 x 4 = **64**
13	256 ÷ 4 = 64 64 x 3 = 192 (nuggets at first) 192 – 130 =62 (nuggets left) 64 – 22 =42 (hashbrowns left N : H 62 : 42 **31:21**
14	(30 x 40 x 20) ÷ 2 = 12000 12000÷ 4000= **3**

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Paper 2

No.	Solution
1	24 x 2 = 48 48 – 18 =30 30÷ 2 = 15 15+18=33 G:B:A 15:33:24 **5:11:8**
2	Volume of water in X = 11 x 11 x 11 = 1331 cm^3 Volume of water in Y = 24 x 6 x 12 = 1728 cm^3 Volume of water needed to fill up Y = 1728 - 1331 = 397 cm^3 =397 ml
3	Area of rectangle = 20 x 22 =440 cm^2 Area of square = 8 x 8 = 64 cm^2 Length of square = 8 cm AE = 22 – 8 =14 cm Area of triangle ABE= $\frac{1}{2}$ x 20 x 14 =140 cm^2 Area of shaded part = 440 – 140 – 64=236 cm^2

4	Area of triangle ABE= $\frac{1}{2}$ x 14 x 14=98 cm^2 Area of triangle ABD= $\frac{1}{2}$ x 14 x 14=98 cm^2 Area of triangle ABF= (98 + 98 - 66) ÷ 2=65 cm^2 Area of triangle BCE= $\frac{1}{2}$ x 14 x 7=49 cm^2 Area of square= 14 x 14=196 cm^2 Area of shaded part=196 - 65 – 49 – 66 = 16 cm^2