



**NAN HUA PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
PRIMARY 5**

**MATHEMATICS
PAPER 1
(BOOKLET A)**

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
6. The use of calculators is **NOT** allowed.

Name : _____ ()

Class : 5 _____

Parent's Signature : _____

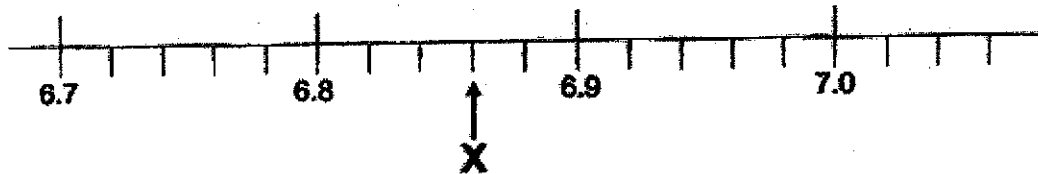
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet (OAS). (20 marks)

1. Arrange the following fractions from the smallest to the largest:

$$\frac{3}{2}, \frac{6}{5}, \frac{1}{7}$$

- | | Smallest | | Largest | |
|-----|-----------------|--|-----------------|---------------|
| (1) | $\frac{3}{2}$, | | $\frac{1}{7}$, | $\frac{6}{5}$ |
| (2) | $\frac{3}{2}$, | | $\frac{6}{5}$, | $\frac{1}{7}$ |
| (3) | $\frac{6}{5}$, | | $\frac{1}{7}$, | $\frac{3}{2}$ |
| (4) | $\frac{1}{7}$, | | $\frac{6}{5}$, | $\frac{3}{2}$ |
- ()

2. Part of a scale is shown below. What is the value of the reading at X?



- (1) 6.83
 (2) 6.86
 (3) 6.88
 (4) 7.10
- ()

3. Find the value of $40 + 4 \times (8 - 6)$.

- (1) 5
 (2) 20
 (3) 36
 (4) 74
- ()

4. The diagram shows a calculator.
Which of the following could be the mass of this calculator?



- (1) 1 g
(2) 10 g
(3) 100 g
(4) 1000 g

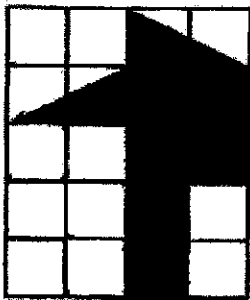
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5. In a school, the ratio of the number of boys to the number of girls is 5 : 9. What is the ratio of the number of girls to the total number of children in the school?

- (1) 5 : 9
(2) 5 : 14
(3) 9 : 5
(4) 9 : 14

()

6. A picture is drawn on a square grid.

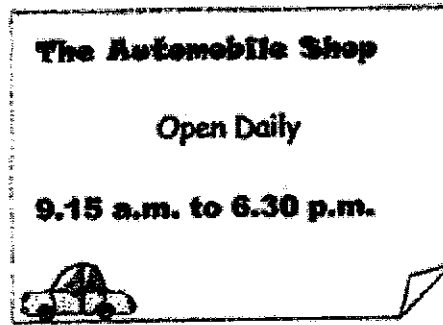


What percentage of the square grid is shaded?

- (1) 8%
(2) 16%
(3) 40%
(4) 60%

()

7. The opening hours of a shop are shown below. How long does the shop open each day?



- (1) 3 h 15 min
(2) 3 h 45 min
(3) 9 h 15 min
(4) 9 h 45 min

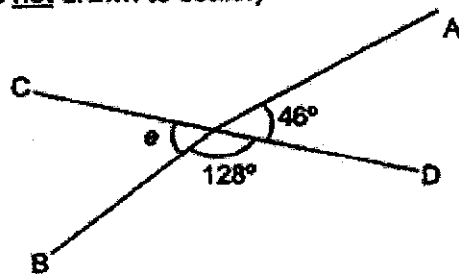
()

8. Express $\frac{3}{8}$ as a decimal.

- (1) 0.125
(2) 0.375
(3) 0.625
(4) 0.875

()

9. In the figure below, CD is a straight line. Find $\angle e$.
(The figure is not drawn to scale.)



- (1) 46°
(2) 52°
(3) 58°
(4) 134°

()

10.

Electric scooter for Rent

| | |
|--------------------------------------|------|
| First hour : | \$12 |
| Every additional $\frac{1}{2}$ hour: | \$4 |



Miss Lim rented a scooter for 3 hours. How much did she pay?

- (1) \$16
- (2) \$20
- (3) \$24
- (4) \$28

()

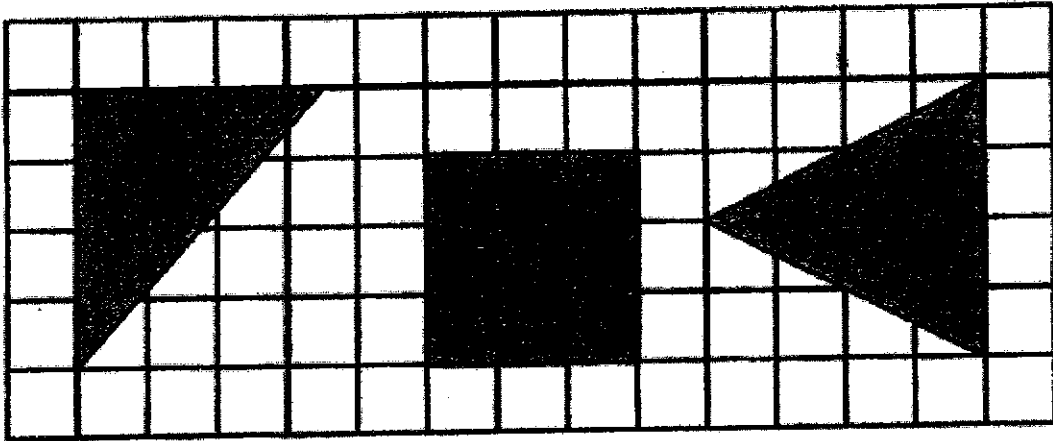
11. Highlighters are only sold in packets of 6. Each packet is sold at \$9.
Mrs Tan has \$50. How many highlighters can she buy at most?



- (1) 30
- (2) 33
- (3) 35
- (4) 36

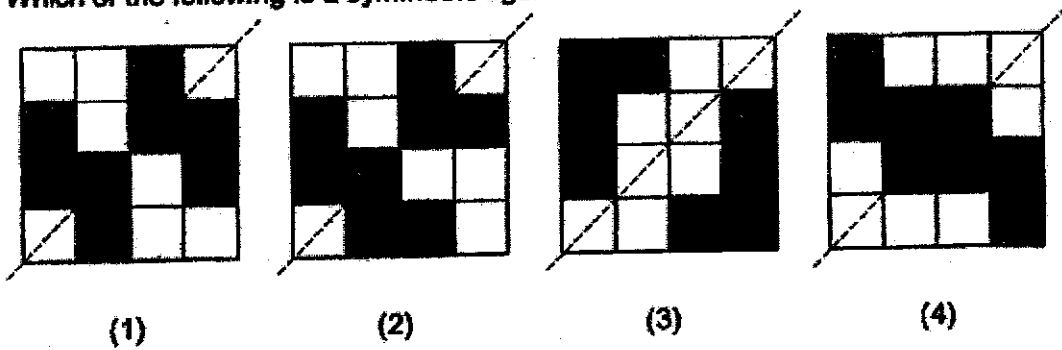
()

12. In the square grid below, A is a right-angled triangle, B is a square and C is another triangle. Arrange A, B and C from the largest to the smallest area.



- | | <u>Largest</u> | | <u>Smallest</u> | |
|-----|----------------|----|-----------------|-----|
| (1) | A, | B, | C | |
| (2) | A, | C, | B | |
| (3) | B, | C, | A | |
| (4) | C, | A, | B | () |

13. Each figure below is made up of 16 squares. 8 squares in each figure are shaded. Which of the following is a symmetric figure?



()

14. The table below shows the number of students in a Primary 5 class. Some of the information is missing.

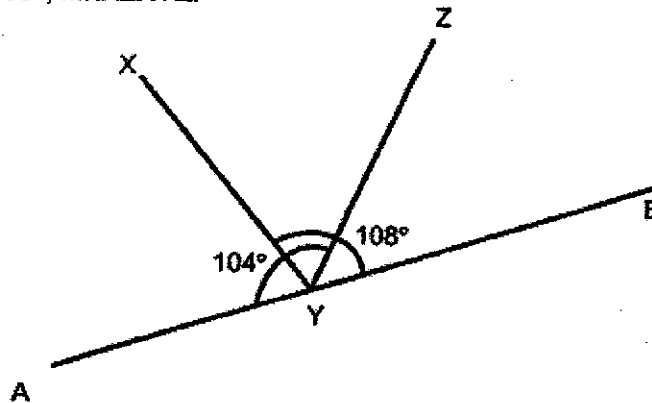
| | With CCA | Without CCA | Total |
|-------|----------|-------------|-------|
| Boys | 10 | 6 | 16 |
| Girls | 15 | 5 | 20 |
| Total | 25 | 11 | 36 |

Based on the given information, what is the ratio of the number of girls without CCA to the number of boys without CCA in the Primary 5 class?

- (1) 5 : 6
 (2) 6 : 5
 (3) 5 : 11
 (4) 6 : 11

()

15. In the figure below, AYB is a straight line. Given that $\angle AYZ = 104^\circ$ and $\angle XYB = 108^\circ$, find $\angle XYZ$.



- (1) 76°
 (2) 72°
 (3) 32°
 (4) 4°

()



**NAN HUA PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
PRIMARY 5**

**MATHEMATICS
PAPER 1
(BOOKLET B)**

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of calculators is **NOT** allowed.

Marks Obtained

| | | | |
|----------------|------------------|--|--------------|
| Paper 1 | Booklet A | | / 45 |
| | Booklet B | | |
| Paper 2 | | | / 55 |
| Total | | | / 100 |

Name : _____ ()

Class : 5 _____

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

Do not write in this space

16. Express 1005 grams in kilograms.

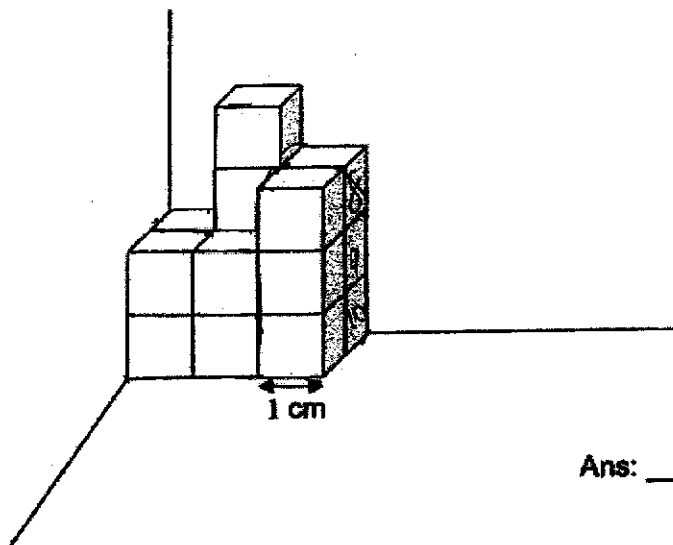
Ans: _____ kg

17. What is the missing number in the box?

$$\frac{8}{12} = \frac{\square}{9}$$

Ans: _____

18. The solid figure below is made up of unit cubes. What is the volume of the solid figure?



Ans: _____ unit cubes

| | |
|-----------------|------------|
| Subtotal | / 3 |
|-----------------|------------|

19. Find the value of 2.3×200 .

Do not write
in this space

Ans: _____

20. The table below shows Caili's scores for 4 games she played.

| Game | 1 | 2 | 3 | 4 |
|-------|---|---|---|----|
| Score | 5 | 0 | 9 | 10 |

Find the average score for the 4 games she played.

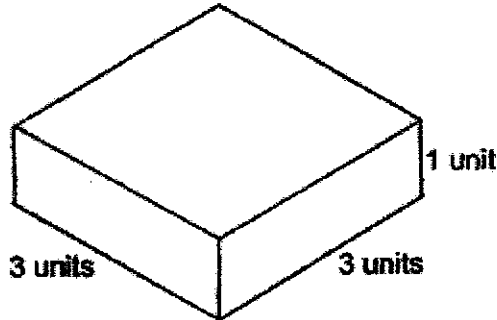
Ans: _____

| | |
|-----------------|-----------|
| Subtotal | 12 |
|-----------------|-----------|

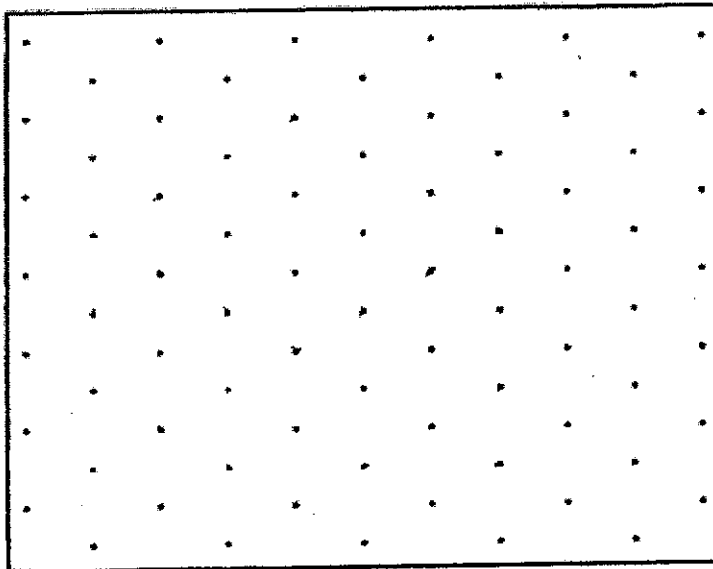
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)


Do not write in this space

21. The figure below shows Cuboid A. Draw a cuboid with a volume twice that of Cuboid A on the isometric grid provided.



Cuboid A



22. Sally bought a roll of stickers with pictures as shown in the following sequence. The roll of stickers has 249 stickers. How many of her stickers have the picture of an apple, ?



Ans: _____

| | |
|----------|----|
| Subtotal | 14 |
|----------|----|

23. (a) Find the value of $\frac{3}{4} - \frac{2}{5}$.

Give your answer in the simplest form.

- (b) Find the value of $\frac{9}{10} \times \frac{2}{3}$.

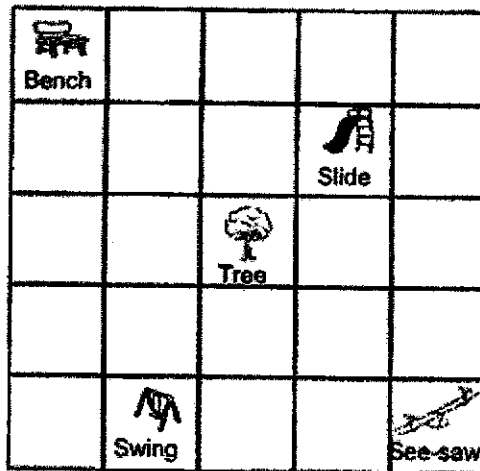
Give your answer in the simplest form.

Do not write
in this space

Ans: (a) _____

(b) _____

24. The square grid below shows the plan of a playground in a school.



- (a) Which object is North-East of the Tree?
- (b) Which direction is the Swing from the See-saw?

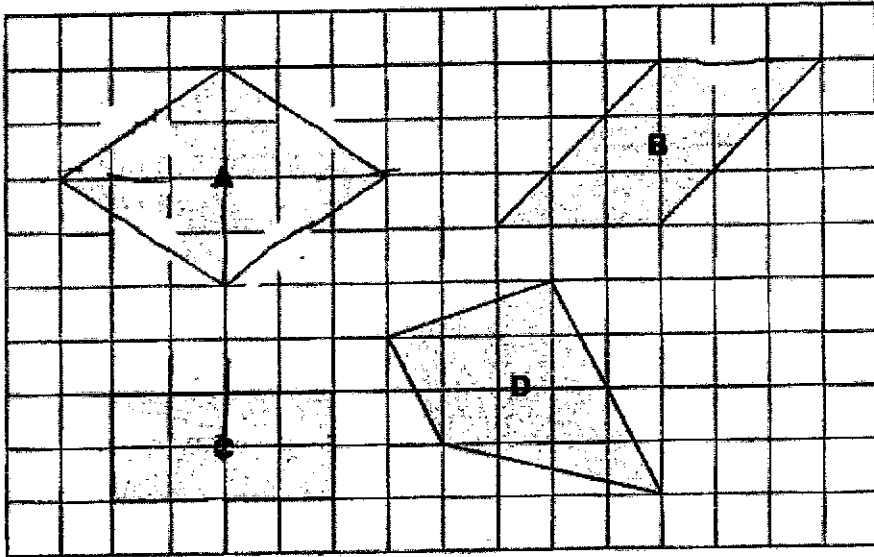
Ans: (a) _____

(b) _____

| | | |
|----------|---|----|
| Subtotal | 4 | 14 |
|----------|---|----|

25. Four figures, A, B, C and D are drawn on a square grid.

Do not write
in this space



Which 2 figures have more than one line of symmetry?

Ans: Figures _____ & _____

26. (a) Express 5% as a decimal.

(b) Express 12 minutes as a percentage of 1 hour.

Ans: (a) _____

(b) _____ %

| | |
|-----------------|------------|
| Subtotal | / 4 |
|-----------------|------------|

27. Faith saved \$240 last month. Her mother decided to give her \$2 for every \$10 she saved. How much did Faith's mother give her?

Do not write in this space

Ans: \$ _____

28. The table below shows the rate of parking charges in a carpark.

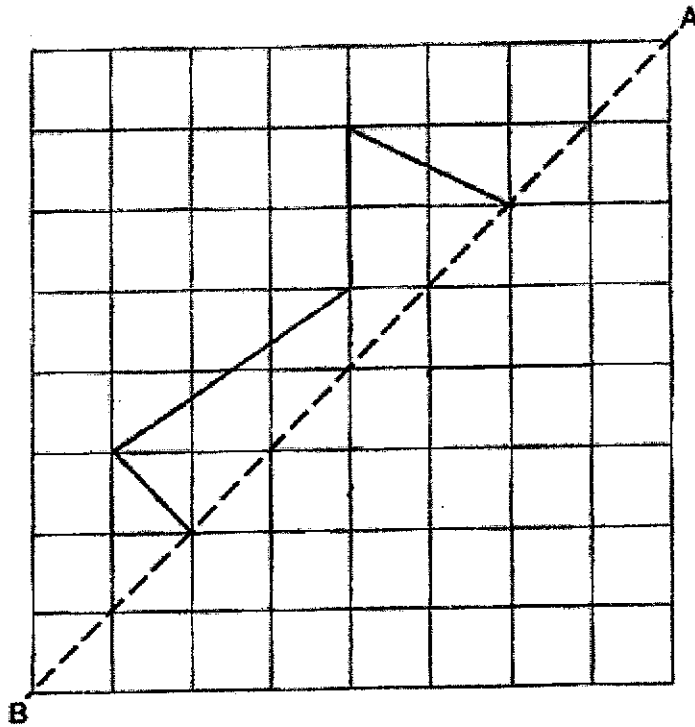
| Parking Charges | |
|---|--------|
| First hour | \$1.30 |
| Every subsequent 30 minutes or part thereof | \$0.80 |

Daniel parked his car in the carpark from 3 p.m. to 5.20 p.m.
How much did he pay?

Ans: \$ _____

| | |
|-----------------|------------|
| Subtotal | / 4 |
|-----------------|------------|

29. Complete the figure below such that line AB is the line of symmetry.



Do not write
in this space

30. Some teachers and students from Glory Childcare Centre went on a field trip. There were 12 teachers in each group of 20 students. There were 48 more students than teachers. How many students went on the field trip?

Ans: _____

— End of Paper 1 —

| | |
|-----------------|-----------|
| Subtotal | 14 |
|-----------------|-----------|



**NAN HUA PRIMARY SCHOOL
END-OF-YEAR EXAMINATION
PRIMARY 5**

**MATHEMATICS
Paper 2**

Total Time for Paper 2: 1 hour 30 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of an approved calculator is expected, where appropriate.

Marks Obtained

| Total | Max Mark |
|-------|----------|
| | 55 |

Name : _____ ()

Class : 5 _____

Parent's Signature : _____

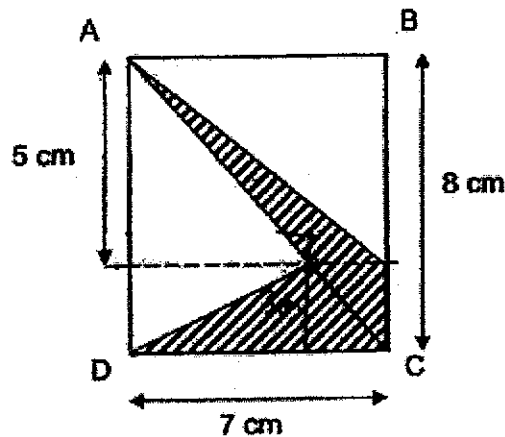
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write
in this space

1. In an aquarium, there were 1080 goldfish and guppies. The ratio of the number of guppies to the number of goldfish was 5 : 4. How many goldfish were left after 30 goldfish were sold?

Ans: _____

2. ABCD is a rectangle. Find the area of the shaded part.



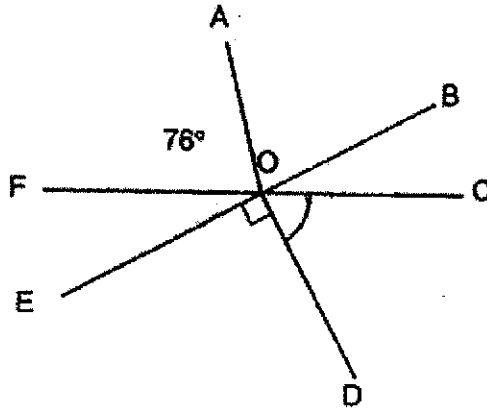
Ans: _____ cm²

Subtotal

14

3. In the figure below, not drawn to scale, BE and CF are straight lines. $\angle AOF = \angle AOB$. Find $\angle COD$.

Do not write in this space



Ans: _____ °

4. Glenda bought some flowers for her teachers on Teachers' Day. If she gave each teacher 4 flowers, there were 3 flowers left over. If she gave each teacher 6 flowers, she would be short of 1 flower. What was the smallest possible number of flowers that Glenda had?

Ans: _____

| | |
|----------|----|
| Subtotal | /4 |
|----------|----|

5. Mr Faizal cycles $7\frac{2}{5}$ km at a nearby park connector every weekend. His wife cycles 4 km less than him. What is the total distance that both of them cover together?

Do not write
in this space

Ans: _____ km

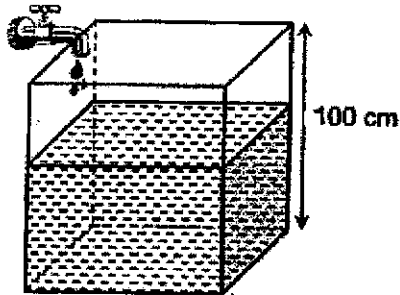
| | |
|----------|-----|
| Subtotal | / 2 |
|----------|-----|

For questions 6 to 17, 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. (45 marks)

Do not write
in this space

6. The figure below shows a cubical tank which is $\frac{3}{5}$ -filled with water.

- (a) What is the volume of water needed to fill up the tank to the brim?
 (b) Water is added to the tank at a rate of 4 litres per minute. At this rate, how long will it take to fill the tank completely?



Ans: (a) _____ [2]

(b) _____ [1]

Subtotal

/ 3

7. The usual price of a toaster was \$260. During a sale, a discount of 10% was given.

- (a) How much was the discounted price?
 (b) Mr Tan bought the toaster during the sale. However, he also had to pay a GST of 7% on the discounted price. How much did he pay for the toaster?

Do not write
in this space

Ans: (a) _____ [1]

(b) _____ [2]

8. The table below shows the charges for water usage.

| Volume of water | Charge |
|-------------------------|---------------------------|
| First 40 m ³ | \$1.17 per m ³ |
| Above 40 m ³ | \$1.40 per m ³ |

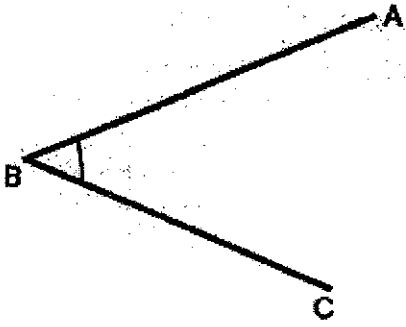
Mrs Lee's family used 68 m³ of water in September. How much did her family pay for the water used?

Ans: _____ [3]

| | |
|----------|-----|
| Subtotal | / 6 |
|----------|-----|

9. (a) In the space below, AB and BC are straight lines. Measure $\angle ABC$.

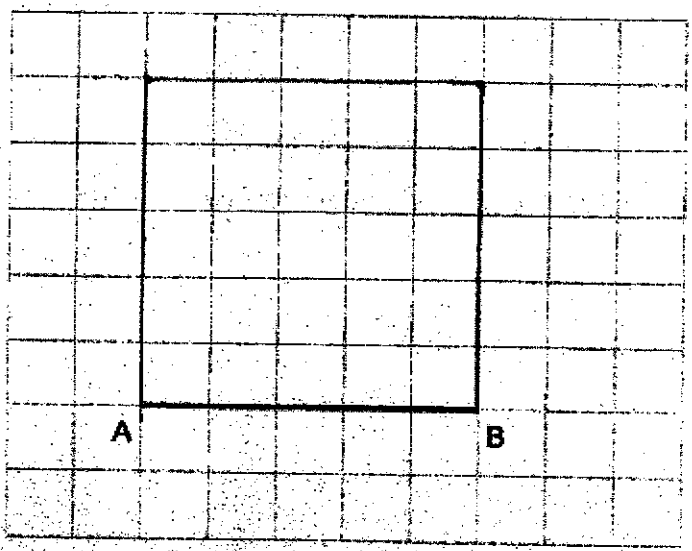
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Ans: (a) _____ [1]

(b) On the square grid below, AB is a straight line. Draw a square ABCD.

[2]



| | |
|----------|----|
| Subtotal | 13 |
|----------|----|

10. The average mass of 3 children, Xavier, Jeremy and Zen, is 54 kg. Xavier is 60 kg. Jeremy and Zen are of the same mass. How heavy is Zen?

Do not write
in this space

Ans: _____ [3]

11. Alex had twice as many marbles as Benjamin at first. Alex then gave away 33 marbles to another friend. Alex now has 16 more marbles than Benjamin.

- (a) How many marbles does Alex have now?
(b) How many marbles did Alex and Benjamin have at first?

Ans: (a) _____ [2]

(b) _____ [2]

| | |
|-----------------|-----------|
| Subtotal | 17 |
|-----------------|-----------|

12. Jimmy started saving part of his pocket money by putting 2 coins in a money box every day. Each coin was either a 20¢ or 50¢ coin. His mother also put in a \$1 coin in the box every 7 days. The total value of the coins after 98 days was \$82.30.

- (a) How many coins were there altogether?
- (b) How many of the coins were 50¢ coins?

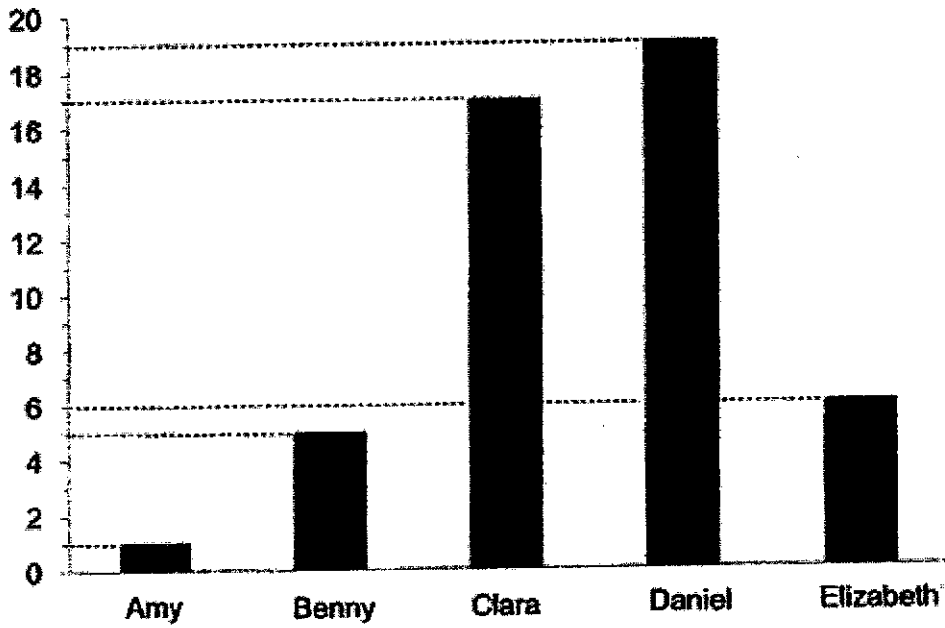
Do not write
in this space

Ans: (a) _____ [2]

(b) _____ [2]

13. The graph below shows the number of stickers bought by 5 children.

Do not write
in this space



- (a) What is the total number of stickers bought by the 5 children?
- (b) What percentage of all the stickers are bought by Elizabeth?

Ans: (a) _____ [2]

(b) _____ [2]

14. Auntie Lucy baked 128 pies and some cookies.
She gave away $\frac{3}{8}$ of her pies and $\frac{2}{7}$ of her cookies. She had 155 cookies left.

Do not write
in this space

- (a) How many pies did she give away?
- (b) How many cookies did she give away?

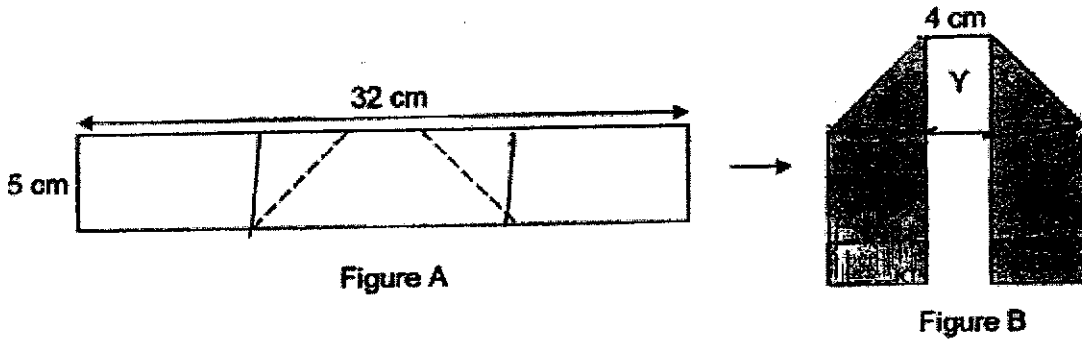
Ans: (a) _____ [2]

(b) _____ [2]



15. Figure A shows a rectangular piece of paper 32 cm by 5 cm which is coloured on one side. It is folded along the dotted line to form Figure B.
- (a) Find the area of the rectangular piece of paper.
- (b) Find the total area of X, Y and Z in Figure B.

Do not write in this space



Ans: (a) _____ [1]

(b) _____ [3]



16. The first four figures of a pattern are shown below.

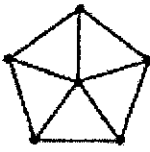


Figure 1

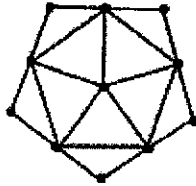


Figure 2

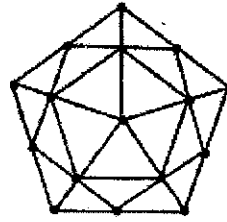


Figure 3

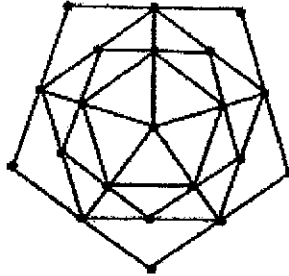


Figure 4

...

The table shows the number of dots and the number of non-overlapping triangles for each figure.

| Figure number | Number of dots | Number of non-overlapping triangles |
|---------------|----------------|-------------------------------------|
| 1 | 6 | 5 |
| 2 | 11 | 10 |
| 3 | 16 | 20 |
| 4 | 21 | 25 |
| 5 | (i) _____ | (ii) _____ |

- (a) Fill in the table for Figure 5.
 (b) What is the number of dots in Figure 10?
 (c) In which Figure number will there be 106 dots?

Ans: (a) (i) _____ [1]

(ii) _____ [1]

(b) _____ [1]

(c) _____ [2]

Do not write
in this space



17. There were 38 pupils in a class. Each of them contributed \$10 towards a charity drive. The form teacher contributed \$70.

$\frac{2}{5}$ of the total amount contributed was spent on buying food items.

$\frac{1}{9}$ of the remainder was spent on stationery.

After spending some money on toiletries, there was \$93 left.

- (a) What was the total amount contributed?
(b) How much was spent on toiletries?

Do not write
in this space

Ans: (a) _____ [2]

(b) _____ [3]



— End of Paper 2 —

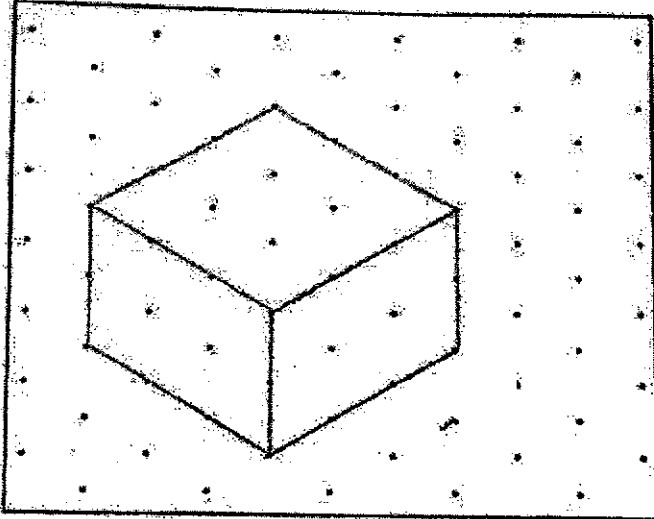
SCHOOL : NAN HUA PRIMARY SCHOOL
 LEVEL : PRIMARY 5
 SUBJECT : MATH
 TERM : EOY

PAPER 1 BOOKLET A

| | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|-----|
| Q 1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 |
| 4 | 2 | 2 | 3 | 4 | 3 | 3 | 2 | 2 | 4 |

| | | | | |
|------|-----|-----|-----|-----|
| Q 11 | Q12 | Q13 | Q14 | Q15 |
| 1 | 3 | 2 | 1 | 3 |

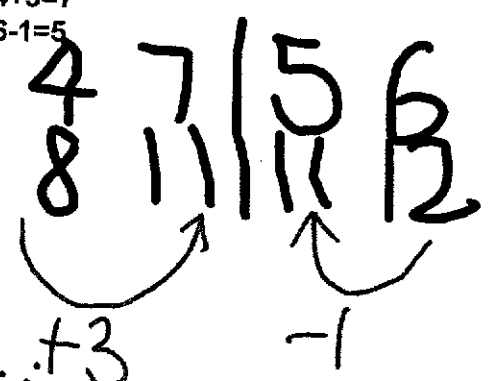
PAPER 1 BOOKLET B

| | |
|------|--|
| Q16) | 1.005kg |
| Q17) | 6 |
| Q18) | 16 |
| Q19) | 460 |
| Q20) | 6 |
| Q21) |  |
| Q22) | $249 \div 5 = 49R4$ |

| | |
|------|--|
| | $49+1=50$ Ans:50 |
| Q23) | a) $7/20$ b) $3/5$ |
| Q24) | a) Slide b) West |
| Q25) | A&C |
| Q26) | a) 0.05 b) 20% |
| Q27) | $240 \div 10 = 24$ $24 \times 2 = 48$ Ans: \$48 |
| Q28) | $0.8 \times 2 = 1.6$ $1.3 + 1.6 = 2.9$ $2.9 + 0.8 = 3.7$ Ans: \$3.70 |
| Q29) | |
| Q30) | $20 - 12 = 8$ $48 \div 8 = 6$ $6 \times 20 = 120$ Ans: 120 students |

PAPER 2

| | |
|-----|--|
| Q1) | guppies:goldfish 5:4 Total $\rightarrow 9u$ $1u \rightarrow 1080 \div 9 = 120$ $4u \rightarrow 120 \times 4 = 480$ $480 - 30 = 450$ Ans: 450 goldfish |
| Q2) | $8 - 5 = 3$ $1/2 \times 3 \times 3 = 10.5$ $1/2 \times 3 \times 3 = 10.5$ $10.5 \times 2 = 21$ Ans: 21cm |

| | |
|-----|---|
| Q3) | $76+76=152$ $180-152=28$ $152+28+28+90=298$ $360-298=62$ Ans: 62° |
| Q4) | $4+3=7$ $6-1=5$  Ans: 11 |
| Q5) | $7\frac{2}{5} - 4 = 3\frac{2}{5}$ $7\frac{2}{5} + 3\frac{2}{5} = 10\frac{4}{5}$ Ans: $10\frac{4}{5}$ km |
| Q6) | <p>a)</p> $1 - \frac{3}{5} = \frac{2}{5}$ $100 \times \frac{2}{5} = 40$ $100 \times 100 \times 40 = 400000$ 400000m³ of water is needed to fill up the tank. <p>b)</p> $400000 \div 4000 = 100$ It will take 100 minutes for the tank to be filled completely. |
| Q7) | <p>a)</p> $100\% \rightarrow 260$ $10\% \rightarrow 260 \div 10$ $= 26$ $260 - 26 = 234$ The discounted price was \$234. <p>b)</p> $100\% \rightarrow 234$ $7\% \rightarrow 234 \div 100 \times 7$ $= 16.38$ $234 + 16.38 = 250.38$ |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|----|----|----|----|---|---|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|---|
| | He paid \$250.38 for the toaster. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q8) | $66 - 40 = 26$ $1.17 \times 40 = 46.80$ $1.4 \times 26 = 36.40$ $46.80 + 36.40 = \$83.20$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q9) | <p>a) 45°</p> <p>b)</p> <table border="1" style="margin-left: 20px;"> <tr> <td>D</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>B</td> </tr> </table> | D | | | | | | | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | A | | | | | | | B |
| D | | | | | | | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A | | | | | | | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q10) | $54 \times 3 = 162$ $162 - 60 = 102$ $102 \div 2 = 51$ Zen is 51kg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q11) | <table border="1" style="margin-left: 20px;"> <tr> <td>A</td> <td></td> <td>16</td> <td>33</td> </tr> <tr> <td>B</td> <td></td> <td></td> <td></td> </tr> </table> <p>a) $33 + 16 = 49$ $49 + 16 = 65$ Alex has 49 marbles.</p> <p>b) $49 \times 3 = 147$ They have 147 marbles at first.</p> | A | | 16 | 33 | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | | 16 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q12) | <p>a)</p> $\text{No. of 1 dollar coins} = 98 \div 7$ $= 14$ $\text{No. of 20¢ and 50¢} = 98 \times 2$ $= 196$ $196 + 14 = 210.$ There were 210 coins. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | <p>b)</p> <p>Value of 20¢ and 50¢ = $82.30 - 14$ = 68.30</p> <table border="1"> <thead> <tr> <th>20¢</th> <th>Cost</th> <th>50¢</th> <th>Cost</th> <th>Total</th> <th>✓/X</th> </tr> </thead> <tbody> <tr> <td>98</td> <td>98×0.20 = 19.6</td> <td>98</td> <td>98×0.50 = 49</td> <td>$19.6 + 49$ = 68.60</td> <td>X</td> </tr> <tr> <td>99</td> <td>99×0.20 = 19.8</td> <td>97</td> <td>99×0.50 = 48.5</td> <td>$19.8 + 48.5$ = 68.30</td> <td>✓</td> </tr> </tbody> </table> <p>97 of the coins were 50¢ coins.</p> | 20¢ | Cost | 50¢ | Cost | Total | ✓/X | 98 | 98×0.20 = 19.6 | 98 | 98×0.50 = 49 | $19.6 + 49$ = 68.60 | X | 99 | 99×0.20 = 19.8 | 97 | 99×0.50 = 48.5 | $19.8 + 48.5$ = 68.30 | ✓ |
|------|---|-----|----------------------------|--------------------------|------|-------|-----|----|----------------------------|----|--------------------------|------------------------|---|----|----------------------------|----|----------------------------|--------------------------|---|
| 20¢ | Cost | 50¢ | Cost | Total | ✓/X | | | | | | | | | | | | | | |
| 98 | 98×0.20 = 19.6 | 98 | 98×0.50 = 49 | $19.6 + 49$ = 68.60 | X | | | | | | | | | | | | | | |
| 99 | 99×0.20 = 19.8 | 97 | 99×0.50 = 48.5 | $19.8 + 48.5$ = 68.30 | ✓ | | | | | | | | | | | | | | |
| Q13) | <p>a)</p> <p>$1 + 5 + 17 + 19 + 6 = 48$ The total number is 48.</p> <p>b)</p> <p>$100\% \rightarrow 48$ $1\% \rightarrow 48 \div 100$ = 0.48 $6 \div 0.48 = 12.5\%$ 12.5% are bought by Elizabeth.</p> | | | | | | | | | | | | | | | | | | |
| Q14) | <p>a)</p> <p>$8U \rightarrow 128$ $1U \rightarrow 128 \div 8$ = 16 $3U \rightarrow 16 \times 3$ = 48 She gave away 48 pies.</p> <p>b)</p> <p>$5U \rightarrow 155$ $1U \rightarrow 155 \div 5$ = 31 $2U \rightarrow 31 \times 2$ = 62 She gave away 62 cookies.</p> | | | | | | | | | | | | | | | | | | |
| Q15) | <p>a)</p> <p>$32 \times 5 = 160$ The area is 160cm^2</p> <p>b)</p> <p>$32 - 4 = 28$ $9 \times 5 = 45$ $45 \times 2 = 90$ $\frac{1}{2} \times 5 \times 5 = 12.5$</p> | | | | | | | | | | | | | | | | | | |

| | |
|------|--|
| | $12.5 \times 2 = 25$ $25 + 90 = 115$ $4 \times 5 = 20$ $20 + 115 = 135$ The total area is 135cm^2 . |
| Q16) | a) i) $21 + 5 = 26$ ii) $25 + 10 = 35$ b) $10 - 1 = 9$ $9 \times 5 = 45$ $45 + 6 = 51$ c) $106 - 6 = 100$ $100 \div 5 = 20$ $20 + 1 = 21$ |
| Q17) | a) $38 \times 10 = 380$ $380 + 70 = \$450$ b) <div style="text-align: center; margin: 10px 0;"> </div> $180 + 30 = 210$ $450 - 210 = 240$ $240 - 93 = \$147$ |