

NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION 2022 PRIMARY 6

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.
- 6. The use of calculators is **NOT** allowed.

| Name : | | . (|) |
|-----------------------|----------------------|-----|---|
| Class : 6 | | | |
| Date : 24 August 2022 | Parent's Signature : | | |

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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. (20 marks)

| 1 | Round | 56 | 354 | to | the | nearest | 1000. |
|---|-------|----|-----|----|-----|---------|-------|
|---|-------|----|-----|----|-----|---------|-------|

- (1) 56 000
- (2) 56 300
- (3) 56 400
- (4) 57 000

2 In 18.624, which digit is in the tenths place?

- (1) 1
- (2) 2
- (3) 6
- (4) 8

3 Arrange the following numbers from the smallest to the largest.

| | | 7 | 7.3 | 7.03 | |
|-----|----------|---|------|------|---------|
| | Smallest | | | | Largest |
| (1) | 7 | 3 | 7.03 | , | 7.3 |
| (2) | 7.3 | 3 | 7 | , | 7.03 |
| (3) | 7.3 | 1 | 7.03 | 1 | 7 |
| (4) | 7.03 | , | 7.3 | 3 | 7 |

| | | • |
|---|---------|---|
| 4 | Expr | ess $\frac{1}{8}$ as a decimal. |
| | (1) | 0.125 |
| | (2) | 1.25 |
| | (3) | 12.5 |
| | (4) | 125 |
| | | |
| 5 | India | marathon, there are 40 Malay participants, 70 Chinese participants and 30 n participants. What is the ratio of the number of Malay participants to the number of Chinese and Indian participants? |
| | (1) | 2:5 |
| | (2) | 2:7 |
| | (3) | 4:3 |
| | (4) | 4:7 |
| | | |
| 6 | John is | s thinking of a number. 40% of the number is 36. What is the number? |
| | (1) | 9 |
| | (2) | 18 |
| | (3) | 54 |

(4)

90

7 Aini spent \$40 in school in January. In February, she spent \$32 in school. Find the percentage decrease in her spending.

- (1) 8%
- (2) 20 %
- (3) 25 %
- (4) 72 %

8 Simplify 9 + 5d - 3d + 4.

- (1) 5 + 2d
- (2) 5 + 8d
- (3) 13 + 2d
- (4) 13 + 8d

9 Which of the following is the most likely mass of a calculator shown below?

- (1) 5 g
- (2) 15 g
- (3) 150 g
- (4) 1500 g



- 10 Which of the following is the same as 8050 cm?
 - (1) 8 m 5 cm
 - (2) 8 m 50 cm
 - (3) 80 m 5 cm
 - (4) 80 m 50 cm
- 11 Below are the operating hours of ABC Dental Clinic.

ABC Dental Clinic

Opens Monday to Friday Closed on weekends

8.30 a.m. to 12.30 p.m.

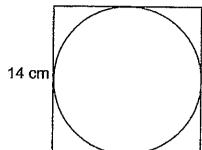
2.30 p.m. to 4.30 p.m.

7 p.m. to 9.15 p.m.

How long is the clinic open on Wednesday?

- (1) 9 h 15 min
- (2) 8 h 15 min
- (3) 7 h 15 min
- (4) 6 h 15 min

The figure shows a circle inside a square of side 14 cm. 12 Find the area and perimeter of the circle. Take $\pi = \frac{22}{7}$.



154 cm²

<u>Area</u>

- <u>Perimeter</u> 44 cm
- 154 cm² (2)

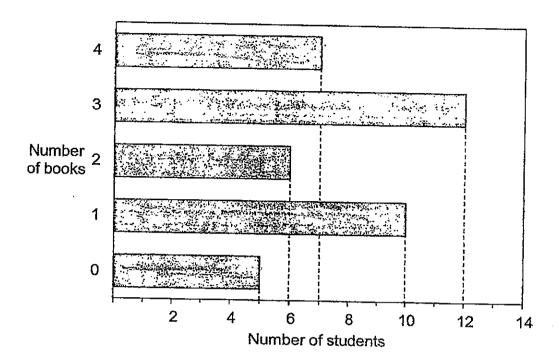
(1)

- 22 cm
- 44 cm² (3)
- 154 cm
- (4) 22 cm²
- 154 cm
- Mrs Lim had $\frac{2}{5}\ell$ of syrup. She mixed the syrup with $\frac{9}{10}\ell$ of water to make fruit punch. The fruit punch was poured into bottles, each containing $\frac{1}{5}$ ℓ . How much fruit punch was left?
 - $(1) \qquad \frac{1}{10} \; \ell$

ģs į

- (2) $\frac{1}{2} \ell$
- $(3) \qquad \frac{3}{10} \, \ell$
- $(4) \qquad \frac{11}{10} \ell$

14 The graph below shows the number of books that the students in Class 6A read in a week.



Find the total number of books read by students who read more than 2 books.

- (1) 19
- (2) 25
- (3) 64
- (4) 76

ERRATA

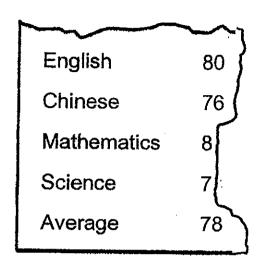
| Name : | | (|) |
|-----------|------------|---|---|
| | BLANK PAGE | · | · |
| Class : 6 | | | |

Replace Page 7 Question 13 with the following question

- Mrs Lim had $\frac{1}{10} \ell$ of syrup. She mixed the syrup with $\frac{4}{5} \ell$ of water to make fruit punch. The fruit punch was poured into bottles, each containing $\frac{1}{5} \ell$. How much fruit punch was left?
 - $(1) \qquad \frac{1}{10} \ \ell$
 - (2) $\frac{1}{2}$ {
 - $(3) \qquad \frac{7}{10} \ \ell$
 - $(4) \qquad \frac{4}{5} \, \ell$

Halim's result slip was accidentally torn. His average mark for 4 subjects is 78.

Part of his Mathematics and Science marks are missing. What is the greatest possible difference between Halim's Mathematics and Science mark?



- (1) 19
- (2) 16
- (3) 10
- (4) 4



NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION 2022 PRIMARY 6

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 | 7 40 |
| Paper 2 | | / 55 |
| Total | | / / 100 |

| Name : | | (|) |
|------------------------------|---------------------|---|---|
| Class : 6 | | | |
| Date : <u>24 August 2022</u> | Parent's Signature: | | |

This booklet consists of 12 printed pages and 2 blank pages.

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| | estions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. r questions which require units, give your answers in the units stated. (5 marks) | Do not write in this space |
|----|--|----------------------------|
| 16 | Measure and write down the size of ∠ABC. | |
| | A C | |
| | Ans : ° | |
| 17 | The volume of the cuboid is 96 cm ³ . The area of the shaded face is 8 cm ² . Find the height of the cuboid. | |
| | ? cm | |

18 Figure A and B are nets of solids.

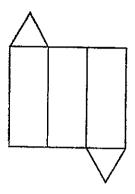
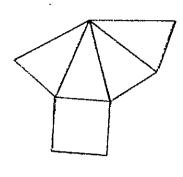


Figure A



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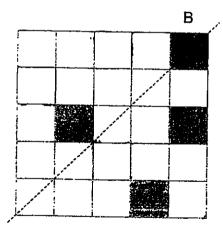
Figure B

Circle the words that describe the figures above.

Figure A is a net of a (prism / pyramid).

Figure B is a net of a (prism / pyramid)

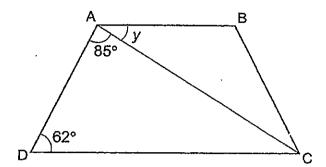
19 There are 4 shaded squares in the figure. Shade 3 more squares to form a symmetric figure with AB as the line of symmetry.



Α

20 ABCD is a trapezium with AB parallel to DC. Find $\angle y$.

Do not write in this space



Ans: _____

| | | 6 | | |
|---|-----|--|--|--|
| Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For question which require units, give your answers in the units stated. (20 marks) | | | | |
| 21 | (a) | Find the value of $\frac{2}{7} \div 4$. | | |
| | | Give your answer in fraction in the simplest form. | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | Ans : (a) | | |
| | (b) | Find the value of 2 ÷ 9. Give your answer correct to 1 decimal place. | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Ans:(b)_

22 (a) Which fraction is smaller?

| 4 | 2 |
|---|---|
| | _ |
| 9 | 3 |
| | |
| | |

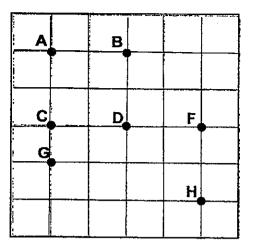
Do not write in this space

Ans : (a)

(b) Arrange $\frac{5}{9}$, $\frac{2}{3}$, $\frac{9}{8}$ in decreasing order.

Ans: (b) _____, ____,

23 The square grid shows the positions of points A, B, C, D, E, F, G and H.



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(a) In which direction is point A from point D?

| Ans | : | (a) | |
|-----|---|-----|--|
| | | | |

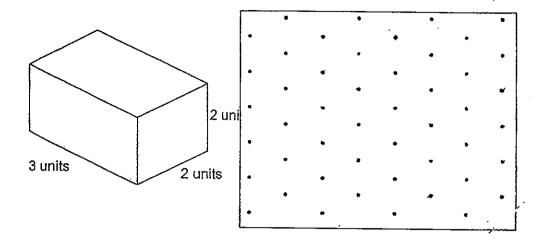
(b) Winnie is at point B facing East at first. She turns 135° clockwise. Which point is she facing after the turn?

Ans: (b) _____

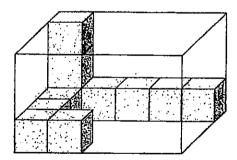
| 24 | A box contains red, green, blue and black markers. $\frac{3}{8}$ of the markers are red. $\frac{3}{10}$ of the remaining markers are green. The number of blue and black markers are equal. What fraction of the markers in the box are blue? | Do not write in this space |
|--------|---|----------------------------|
| | Ans : | |
| 25 | John is <i>t</i> years old. His mother is 25 years older than him. | |
| | (a) How old is John's mother? Express your answer in terms of t. | |
| 2 1 | | |
| | Ans : (a) years old | |
| | (b) What is their total age when <i>t</i> = 10? | |
| | | |
| | | |
| | Ans : (b) years old | |
| | | |

| 26 · | Draw the following cuboid on the isometric grid. |
|-------------|--|
| | · |
| | |

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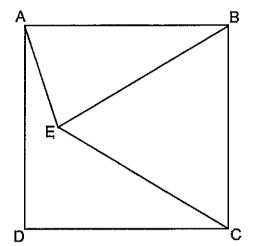
27 The figure shows a rectangular glass box filled with unit cubes. How many more unit cubes are needed to fill the box completely?



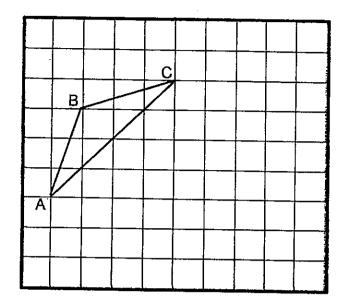
Ans : ____

28 In the figure, ABCD is a square. BCE is an equilateral triangle. Find ∠AEB.

Do not write in this space



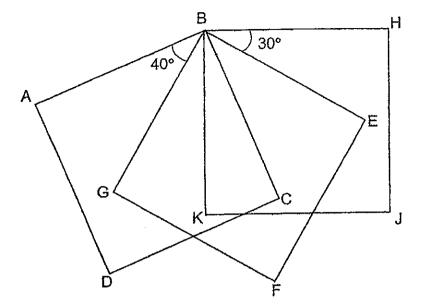
Ans : _____



- (a) Using triangle ABC, draw rhombus ABCD.
- (b) Draw a triangle ACE such that area of ABC is $\frac{1}{3}$ of the area of ACE. Triangle ACE must not overlap with triangle ABC.

30 The figure below is made up of 3 identical squares, ABCD, BEFG and BHJK.
∠ABG = 40° and ∠HBE = 30°. Find BIKÆNK PAGE

Do not write in this space



ť.

Ans: ______°

End of Paper



NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION 2022 PRIMARY 6

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 allowed.

Marks Obtained

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

| ivaine : | | (|) |
|----------|----------------|----------------------|---|
| Class : | 6 | | |
| Date: | 24 August 2022 | Parent's Signature : | |

This booklet consists of 16 printed pages and 2 blank page.

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

(10 marks)

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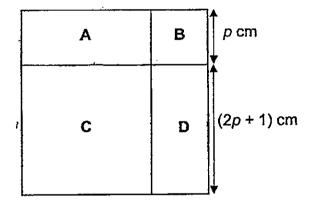
1 The mass of a watermelon is 4.82 kg. The mass of a pineapple is 2.65 kg lighter than the mass of the watermelon.

What is the total mass of the two fruits?

| ۱ns: | kg \ | ı | |
|---------|------|----|--|
| /III/2- | | lì | |

The figure shows a square divided into two rectangles A and D and two squares B and C. The perimeter of rectangle A is 14 cm.

Find the value of p.



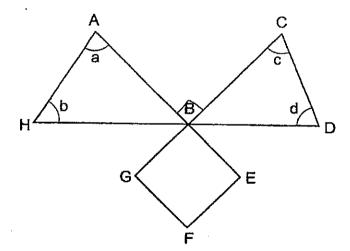
| Ans: | р | = | cm |
|------|---|---|--------|
| | | | |

Mrs Lee had a sum of money to spend. She spent $\frac{1}{2}$ of her money plus \$2 on a notebook. Next, she spent $\frac{1}{4}$ of her remaining money on a drink and she was left with \$9. How much money did she have at first?

Do not write in this space

| Ans: \$ | |
|---------|---|
| | · · · · · · · · · · · · · · · · · · · |

The figure below is made of a square BEFG and 2 triangles ABH and CBD. ABE, HBD and GBC are straight lines.
Find the value of ∠ a + ∠ b + ∠ c + ∠ d.



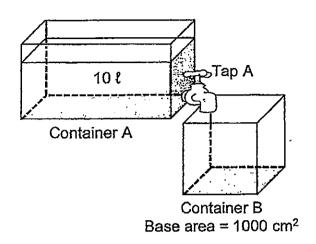
| Ans: | 0 | . |
|------|---|---|

15 The figure below shows 2 containers, A and B.

Container A contains 10 & of water.

Container B has a base area of 1000 cm² and was empty at first.

Do not write in this space



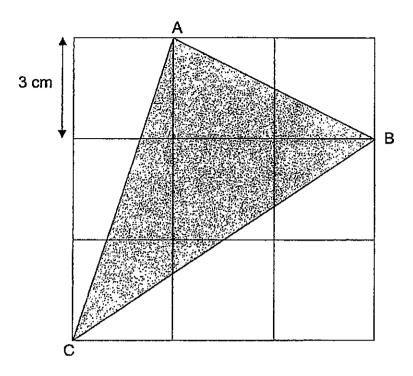
When Tap A is turned on, the height of water in container B increases by 2 cm per minute. What is the volume of the water left in container A after Tap A is turned on for 2 minutes?

Ans:

| 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) | | | | |
|---|---|-------|--|--|
| 6 | Muffins are sold in boxes of 6, 8 and 15. John bought 12 boxes of 6 muffins and | - | | |
| | some boxes of 8 and 15 muffins. He bought a total of 188 muffins. How many | | | |
| | boxes of 15 muffins did John buy? | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Ans:[3] | | | |
| 7 | A red T-shirt is sold at a 15% discount and a blue T-shirt at a 30% discount. Both shirts have the same price before the discount. The discounted price of the red T-shirt is \$6 more than the discounted price of the blue T-shirt. What is the price | | | |
| | of a red T-shirt before the discount? | | | |
| | | | | |
| | | | | |
| | | | | |
| ŕ | | | | |
| | | | | |
| | Ans:[3] | | | |

8 The figure below is made up of 9 squares of sides 3 cm. Triangle ABC is shaded.

Do not write in this space



(a) Find the area of unshaded part.

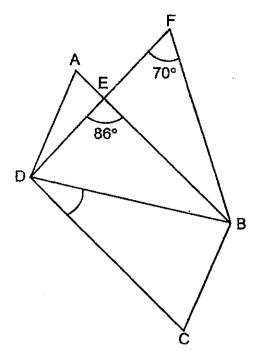
Ans: (a) _____ [2]

(b) Find the area of shaded part.

Ans: (b) ______ (1)

In the figure below, ABCD is a parallelogram and DBF is an isosceles triangle with FD = FB. ∠DFB = 70° and ∠DEB= 86°. Find ∠BDC.

Do not write in this space



Ans: _____ [3]

| | 9 | |
|----|--|----------------------------|
| 10 | The ratio of the number of apples to the number of pears in a supermarket was | Do not write in this space |
| | 5:6. $\frac{1}{4}$ of the apples and 171 pears were rotten. The rotten apples and pears | |
| | were thrown away. In the end, there was an equal number of apples and pears left. How many apples were there at first? | |
| | | |
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| | | |

Ans:

[4]

11 James bought key chains and trading cards at the prices shown below.

Do not write in this space

| | A section of the sect |
|---------------------------|--|
| Key Chain ′ 4 for \$17 | Trading Card 3 for \$8 |

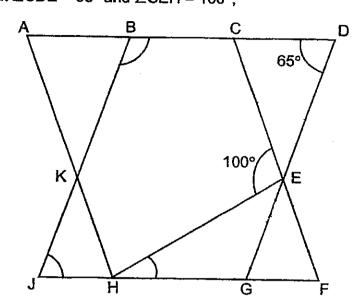
He bought an equal number of keychains and trading cards. He spent \$76 more on keychains than trading cards. How many key chains did he buy?

Ans; ____[3]

| Town A and B are 400 km apart. Alex left Town A for Town B travelling at a constant speed of 65 km/h. At the same time, Ben left Town B for Town A, travelling at a constant speed of 85 km/h. Both of them took the same route. How long did they take to pass each other? Leave your answers in hours and minutes. | in this space |
|--|---------------|
| | |
| | |
| | |
| | |
| Ans: [3] | |
| | |

In the figure below, ACFH and BDGJ are identical parallelograms.
 EFH is a triangle. ABCD and JHGF are straight lines.
 Given that ∠CDE = 65° and ∠CEH = 100°,

Do not write in this space



(a) Find ∠BJH.

Ans: (a) _____[1]

(b) Find ∠DBJ.

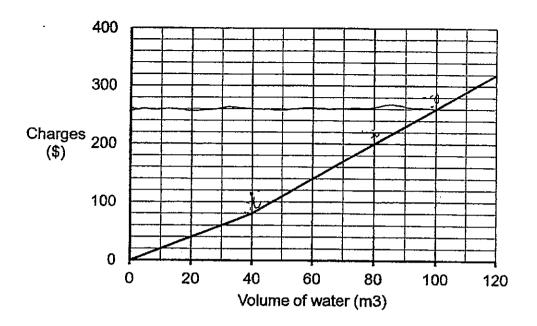
Ans: (b) _____[1]

(c) Find ∠EHF.

Ans: (c) _____ [2]

14 The graph shows the charges for water usage.

Do not write in this space



(a) Find the charges when 40 m³ of water is used.

| Ans: (a) | | [1 |] | |
|----------|--|----|---|--|
|----------|--|----|---|--|

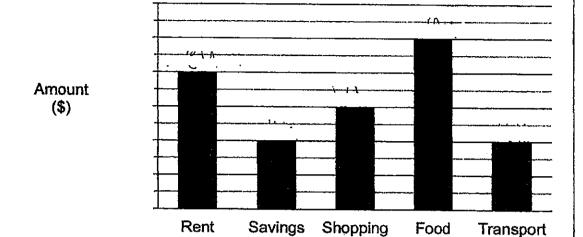
(b) The Lee family paid \$260 for the volume of water used in July. What was the volume of water used?

(c) How much is the charge for every cubic metre of water after 40 m³?

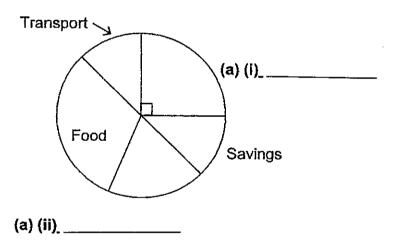
Ans: (c) _____[2]

The bar graph below represent how Bryan used his money in September. The amount of money is not shown on the scale in the bar graph below.

Do not write in this space



How Bryan used his money in Septempher is also represented in the pie chart below.



(a) Label the pie chart by writing 'Shopping' and 'Rent' in the blanks above. [1m]

| (b) | Each of the statements below is either true, false or impossible to tell |
|-----|---|
| | from the information given. For each statement, put a tick ($\sqrt{\ }$) to indicate your answer. |
| | |

Do not write in this space

| Statement | True | False | Not possible to tell |
|---|------|-------|----------------------|
| The amount spent on rent is twice the amount spent on transport. | | | |
| The ratio of the amount spent on shopping to the amount spent on food is 3:4. | | - | |

[2]

(c) What fraction of his money did he spend on shopping?

| Ans: | (c) | | [2 |
|------|-----|--|----|
|------|-----|--|----|

| 16 | | | sed white and go | grey colo | oured pa | apers to | form fi | gures t | hat follo | w a | Do not write in this space |
|----|-----------------|--------|--|-----------|-----------|----------|--|----------|-----------|-------------|----------------------------|
| | | | | | | | | | | | |
| | Figu | re 1 | Figure 2 | Fi | igure 3 | | | Figure | 4 | | |
| | The ta four fig | jures. | ow shows the nu | | white a | nd grey | coloured | d papers | s for the | first | |
| | |] | Figure Number | | 1 | 2 | 3 | 4 | 5 | | |
| | | | of white coloured | | 1 | 3 | 6 | 10 | | | |
| | Nı | | of grey coloured | | 0 | 1 | 3 | 6 | | | |
| | | Tota | al number of pap | er | 1 | 4 | 9 | 16 | | | |
| | (b) | | many white ar ether? | nd grey | coloure | d paper | rs are t | here in | Figure | 20 | |
| | (c) | | are in the pattern is the Figure Nu | | tal of 14 | 44 white | (b) _ | ey ¢olou | red pape | [1] ers. | |
| | | | | | | | (c) <u>, </u> | | ; | [1] | |

17 Figure A and B are made up of identical quarter circles.

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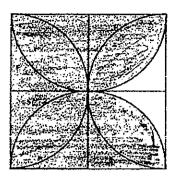


Figure A

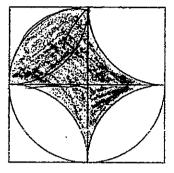


Figure B

The perimeter of the shaded part of Figure A is 140 cm more than the perimeter of the unshaded part of A.

Find the area of the total shaded part in Figure B. Take $\pi = \frac{22}{7}$.

| \ns: | [5] |
|------|-----|
| | F-7 |



NAN HUA PRIMARY SCHOOL PRELIMINARY EXAMINATION 2022 MATHEMATICS PRIMARY 6



Paper 1

| 1) | 1 | 6) | 4 | 11) | 2 |
|----|---|-----|---|-----|---|
| 2) | 3 | 7) | 2 | 12) | 1 |
| 3) | 1 | 8) | 3 | 13) | 1 |
| 4) | 1 | 9) | 3 | 14) | 3 |
| 5) | 1 | 10) | 4 | 15) | 2 |

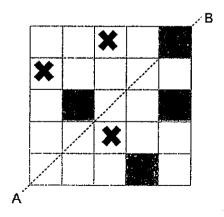
Section B (20 marks)

Questions 16 to 20 carry 1 mark each.

Questions 21 to 30 carry 2 marks each.

(For Q21 to Q30,1 mark will be awarded for the final method mark even if the answer is wrong. A2 will be awarded for the correct answers as some pupils might do the questions mentally.)

| 16) | 127 ± 1° |
|-----|--------------------------------------|
| 17) | 12 |
| 18) | Figure A → prism Figure → pyramid |
| 19) | Refer to picture |
| 20) | 33 |



Note: Q21 to 30 carry 2 marks each



b) 0.2



b)
$$\frac{9}{8}$$
, $\frac{2}{3}$, $\frac{5}{9}$

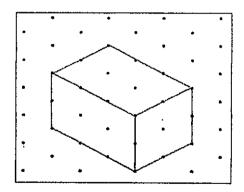
- 23. a) North-West
 - b) C

24. $\frac{7}{10} \times \frac{5}{8} = \frac{7}{16}$ (blue and black)

$$\frac{7}{16} \div 2 = \frac{7}{32}$$

- 25. a) (t + 25) years old or (25 + t) years old
 - b) 45 years

26.



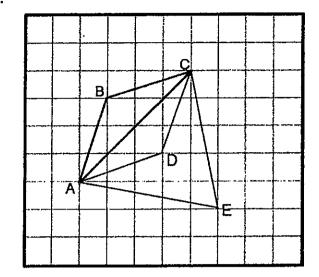
27. $5 \times 4 \times 3 = 60$ 60 - 11 = 49

28.
$$90^{\circ} - 60^{\circ} = 30^{\circ}$$

 $180^{\circ} - 30^{\circ} = 150^{\circ}$
 $150^{\circ} \div 2 = 75^{\circ}$



29.





$$\angle$$
KBC = 90° - 40° - 30° = 20°

9858 53866 A DOLLAR STORY

Paper 2

| | | 1915644 |
|-------------|--|---------|
| 1. | 4.82 - 2.65 = 2.17 | 20 197 |
| <u></u> | 4.82 + 2.17 = 6.99 | |
| 2. | 2p + 1 + 2p + 1 + p + p = 6p + 2 | |
| | 6p + 2 = 14 | |
| | $p = (14-2) \div 6$ | |
| | = 2 | |
| 3. | $9 \div 3 = 3$ | |
| . | $2 + 3 \times 4 = 14$ | |
| | $14 \times 2 = 28$ | |
| | | |
| 4. | 180° + 180° = 360° (sum of 2 triangles) | |
| | 360° - 90° = 270° | |
| 5. | $2 \times 2 \times 1 = 4$ | |
| 0. | 10-4=62 | |
| 6. | $12 \times 6 = 72 \qquad \qquad 60 \div 1 \times = 4$ | |
| | 188 – 72 = 116 | |
| | Using guess and check method, | |
| | | |
| | 6 muffins 8 muffins 15 muffins total | |
| | 12 x 6 = 72 | İ |
| | · | |
| 7. | 85% – 70% = 15% | |
| ••, | 15% → \$6 | |
| | 5% → \$2 | |
| | $100\% \rightarrow $2 \times 20 = 40 | |
| | | |
| 8. | a) $(\frac{1}{2} \times 3 \times 9) + (\frac{1}{2} \times 3 \times 6) + (\frac{1}{2} \times 6 \times 9) = 49.5 \text{ cm}^2$ | |
| | | |
| | b) $9 \times 9 = 81$ | |
| | $81 - 49.5 = 31.5 \text{ cm}^2$ | |
| 9. | $\angle FDB = (180^{\circ} - 70^{\circ}) \div 2$ | |
| | = 55° | |
| • | ∠BDC = ∠EBD = 180° – 55° – 86° | |
| | = 39° | |
| | | |

| • | A: P = 5: 6 = 20: 24 | 1 22 |
|---------|---|-------------|
| 10. | A: $P = 5:6$ = 20: 24 | 985782 |
| | $RA = 20 \times \frac{1}{4} = 5$ RP = 24 - 15 = 9 | |
| | 9 units = 171 1 unit = 19 20 units = 19 x 20 = 380 | |
| 11. | 1 set of 12 keychains → \$17 × 3 = \$51 1 set of 12 trading cards → \$8 × 4 = \$32 Difference of 1 set = \$51 - \$32 = \$19 \$76 ÷ \$19 = 4 4 × 12 = 48 | |
| 12. | 65 + 85 = 150 | |
| | 400 ÷ 150 | |
| | $=2\frac{2}{3}$ h = 2h 40 min | |
| 13. (a) | ∠BJH = 65° | |
| (b) | ∠DBJ = 180° – 65° = 115° | |
| (c) | ∠EHF = 100° – 65° = 35° | |
| 14. (a) | \$90 \$80 | |
| (b) | 100 m ³ | |
| (c) | M1 for identifying the correct corresponding x and y value | |
| | (200 – 140) / (80 – 60) = \$3 | |

| 45 (-1) | | - \(\text{\ti}}\\ \text{\tex{\tex |
|----------|--|--|
| 15. (ai) | Rent | 858 |
| (aii) | Shopping · | 9868 8586 1000 1000 1000 1000 1000 1000 1000 100 |
| (bi) | true | 8/61 2648 |
| (bii) | false | |
| (c) | $\frac{6}{32} = \frac{3}{16}$ | |
| 16. (a) | (i) 15 (ii) 10 (ii) 25 | |
| (b) | $(20 \times 20) = 400$ | |
| (c) | 38 × 38 = 1444 (3 ኔ) | |
| 17. | 4r = 140 $35 \times 35 = 1225$ $\frac{1}{4} \times \frac{22}{7} \times 35 \times 35 = 962.5$ 1225 - 962.5 = 265.5 $35 \times 35 + 962.5 = 1750 \text{ cm}^2$ | |