TAO NAN SCHOOL 道南学校

SINCERITY & PERSEVERANCE

2024 PRIMARY 5 END-OF-YEAR EXAMINATION

Name: _____ ( ) Date: 22 October 2024

Class: Primary 5 ( ) Time: 8.00 a.m. – 9.00 a.m.

Parent's Signature: _____ Marks: _____ / 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS
PAPER 1
(BOOKLET A)

20

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
6. The use of calculators is **NOT** allowed.

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)

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1. Which of the following is six million, thirty-five thousand and twenty in numerals?

   (1) 6 035 020

   (2) 6 035 200

   (3) 6 350 020

   (4) 6 350 200

2. Find the value of $8.16 \div 40$

   (1) 0.204

   (2) 0.240

   (3) 2.04

   (4) 2.40

3. Which of the following is equal to $6\frac{2}{7}$?

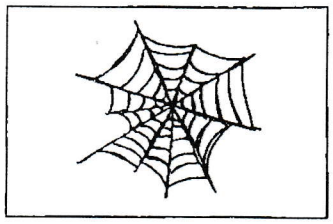
   (1) $\frac{12}{7}$

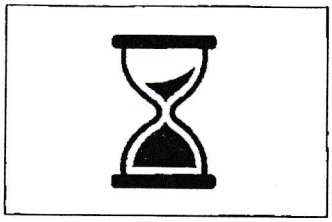
   (2) $\frac{16}{7}$

   (3) $\frac{44}{7}$

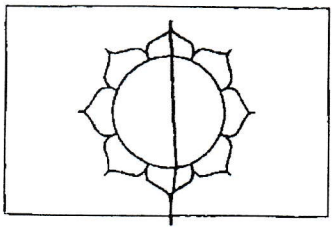
   (4) $\frac{48}{7}$

4. Which of the following is symmetrical?

(1) 

(2) 

(3) 

(4) 

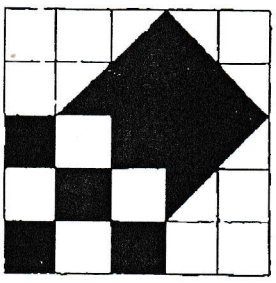
5. The figure is divided into 25 equal squares.
What percentage of the figure is shaded?

(1) 11%

(2) 25%

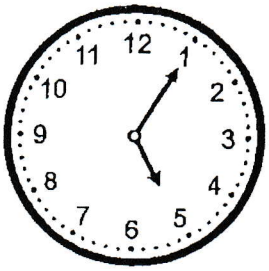
(3) 44%

(4) 56%



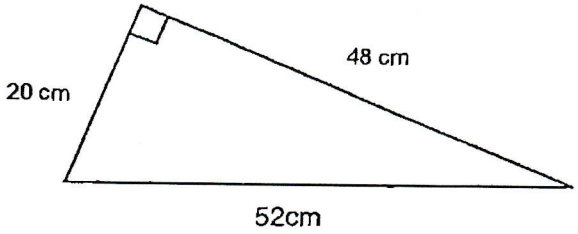
6. What is 25 minutes before the time shown on the clock?

(1) 16 30
(2) 16 40
(3) 17 30
(4) 17 40



7. The figure shows a right-angled triangle.
Find the area of the triangle.

(1) 480 cm^2
(2) 520 cm^2
(3) 960 cm^2
(4) 1248 cm^2

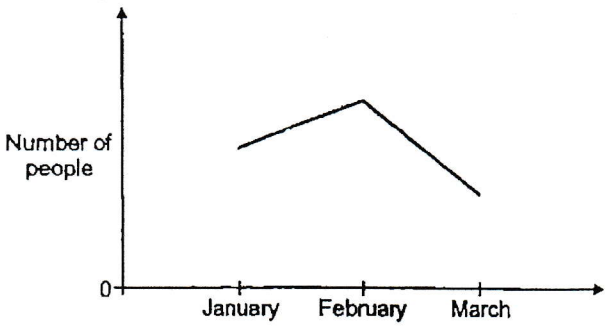


8. Betty used $\frac{3}{8}$ of her flour to bake a cake and $\frac{1}{5}$ of the remaining flour to bake cookies. What fraction of her flour did she use to bake cookies?

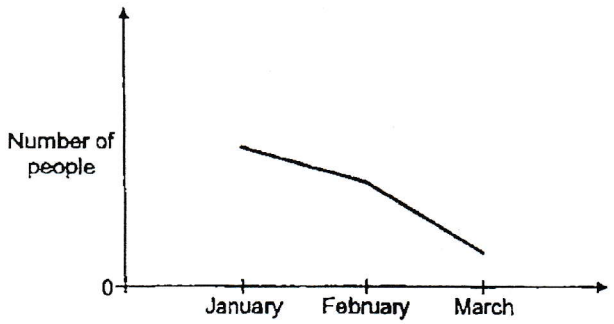
(1) $\frac{1}{5}$
(2) $\frac{1}{8}$
(3) $\frac{4}{5}$
(4) $\frac{5}{8}$

9. The number of people visiting the funfair decreased by 30 from January to February and increased by 60 from February to March. Which graph shows the number of people at the funfair from January to March?

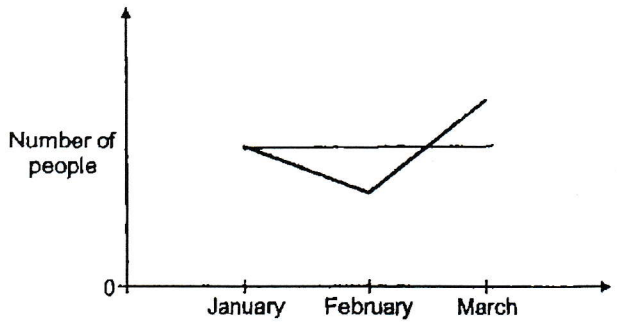
(1)



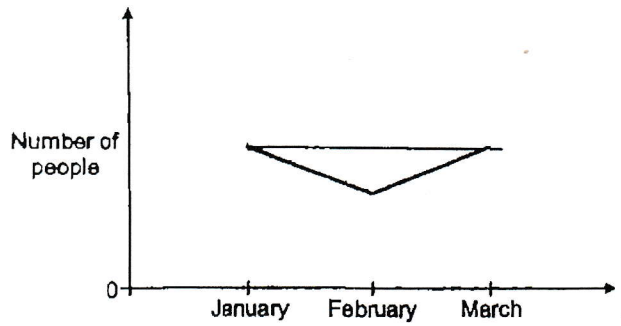
(2)



(3)



(4)



10. Ahmad had $200. He spent $60 on a bag and saved the rest of the money. What percentage of his money did Ahmad save?

(1) 70%
(2) 60%
(3) 30%
(4) 40%

11. What is the value of $80 - (15 + 25) \div 5 + 15$?

(1) 87
(2) 85
(3) 33
(4) 23

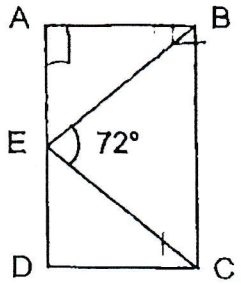
12. Which decimal is greater than 1.07 but smaller 1.15?

(1)
(2)
(3)
(4)

13. Aminah, Ban Leong and Colin share some stickers in the ratio 1 : 6 : 2. The biggest share is 54 stickers. What is Colin's share?

(1) 6
(2) 9
(3) 12
(4) 18

14. ABCD is a rectangle and BE = CE. Find ∠ABE.



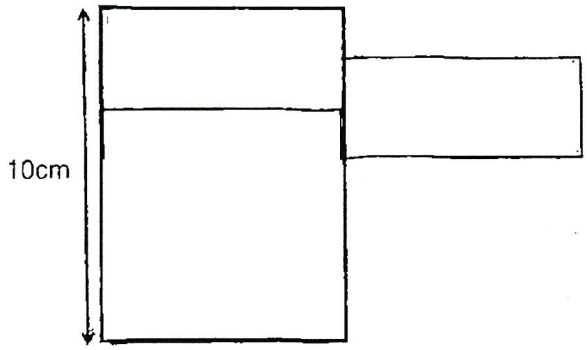
(1) 18°

(2) 36°

(3) 45°

(4) 54°

15. The figure is made up of a square and two identical rectangles. The area of the square is 36 cm². Find the perimeter of the figure.



(1) 44 cm

(2) 48 cm

(3) 56 cm

(4) 66 cm

End of Booklet A

2024 PRIMARY 5 END-OF-YEAR EXAMINATION

Name: _____ ( ) Date: 22 October 2024

Class: Primary 5 ( ) Time: 8.00 a.m. – 9.00 a.m.

Parent's Signature: _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS
PAPER 1
(BOOKLET B)

25

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
6. The use of calculators is **NOT** allowed.
7. Do not use correction fluid/tape.
8. Do not use highlighters on any part of your answers.

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)

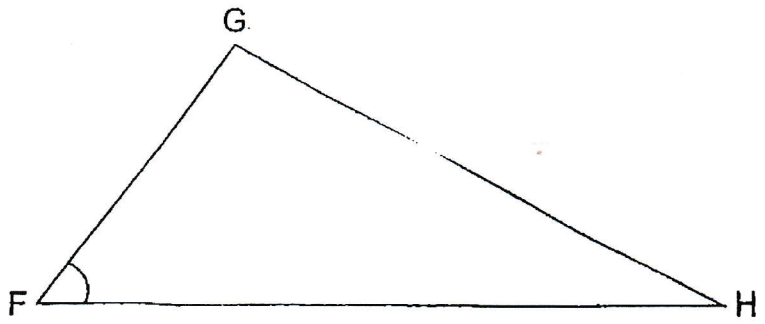
16. Find the value of $23 \div 9$.
Express your answer as a mixed number in the simplest form.

Ans: _____

17. How many minutes are there in $1\frac{3}{5}$ h?

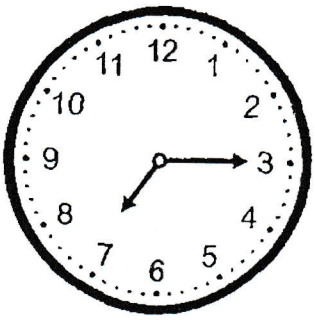
Ans: _____ min

18. Measure and write down the size of $\angle GFH$.

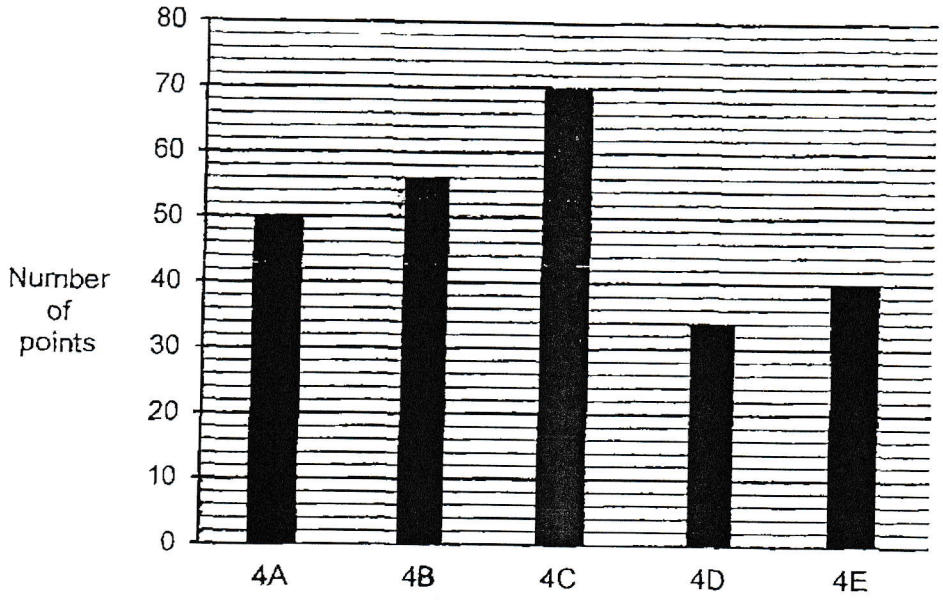


Ans: _____ °

19. Draw the minute hand after it makes a $\frac{1}{4}$ - turn clockwise.



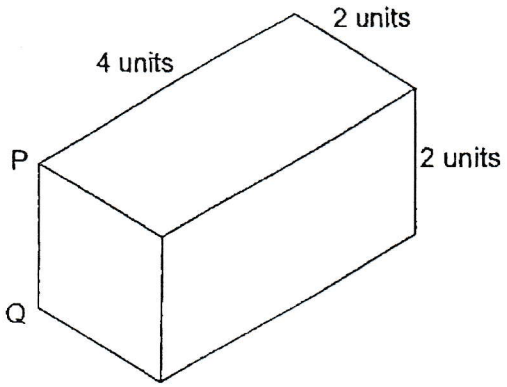
20. The graph shows the points scored by 5 classes during Sports Day.
How many points did Class 4B score?

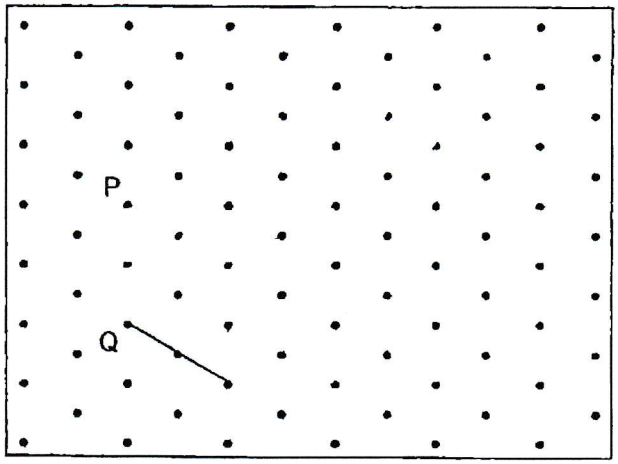


Ans: _____

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

21. Draw the following cuboid on the isometric grid provided.
PQ has been drawn for you.

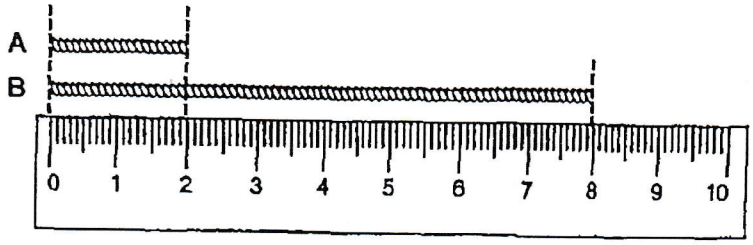




22. 6000 ml of paint was poured into 5 containers equally.
How many litres of paint were there in one container?
Express your answer as a decimal.

Ans: _____ ℓ

23. Find the ratio of the length of String A to the length of String B.
Give your answer in the simplest form.



Ans: _____

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24. The table shows the time taken by 5 swimmers to complete a race.

Swimmer	Time (s)
A	14.2
B	15.0
C	13.9
D	13.7
E	14.3

Who was first in the race?

Ans: _____

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25. Dora folds 12 paper cranes in 10 minutes.
At this rate, how many paper cranes can Dora fold in 15 minutes?

Ans: _____

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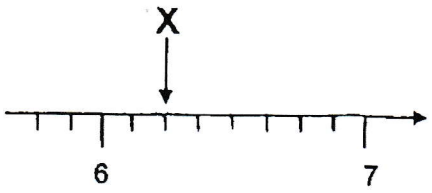
26. In the number line, what is the value represented by X?
Round your answer to 1 decimal place.



Ans: _____

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27. There are 140 students in the hall. 75% of the students are boys.
How many girls are there?

Ans: _____

---

28. Jane had some water in her bottle. After she drank half the amount, she added in another $\frac{4}{5}$ ℓ. There were $1\frac{1}{3}$ ℓ of water left in the bottle.
How many litres of water were there in the bottle at first?
Express your answer as a mixed number in the simplest from.

Ans: _____ ℓ

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29. There were 30 lampposts along a road.
The lampposts were at the same distance apart.
The distance between the first and third lamppost was 90 m.
What was the distance between the first and the last lamppost?

Ans: _____ m

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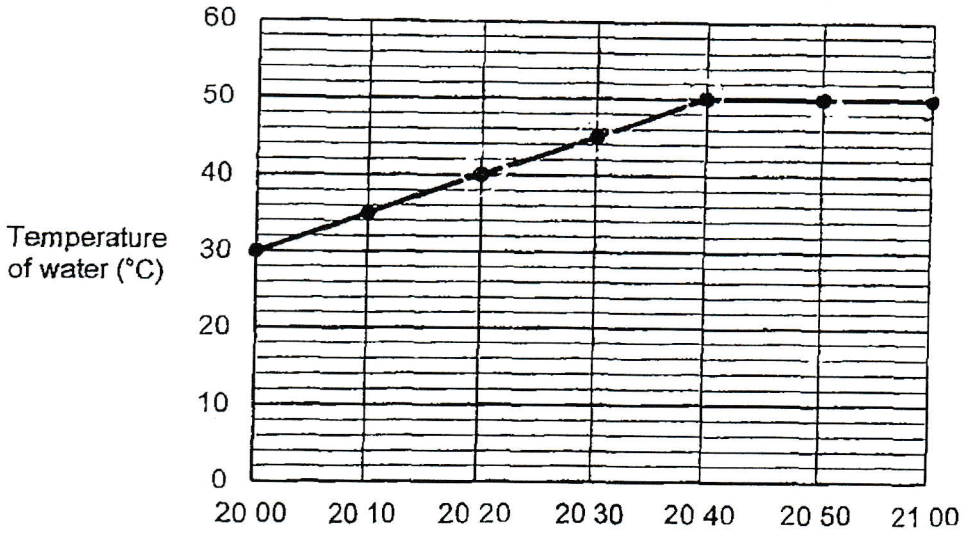
30. The line graph shows the temperature of water in a tank from 20 00 to 21 00.



For how many minutes was the temperature of the water 40°C and above?

Ans: _____ min

End of Booklet B

End of Paper 1

2024 PRIMARY 5 END-OF-YEAR EXAMINATION

Name: _____ ( ) Date: 22 October 2024

Class: Primary 5 ( ) Time: 10.30 a.m. – 12 noon

Parent's Signature: _____

MATHEMATICS

PAPER 2

55

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
6. The use of an approved calculator is allowed.
7. Do not use correction fluid/tape.
8. Do not use highlighters on any part of your answers.

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

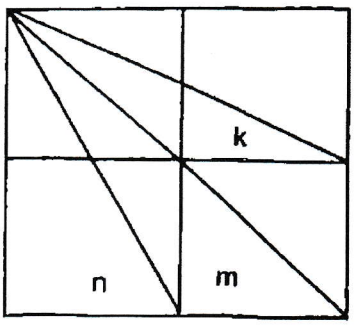
1. Emerlyn had 3.45 m of string. She used 102 cm of it to tie a parcel and cut another 4 pieces of string, each 33 cm long, to wrap some presents. How much string did she have left?

Ans: _____ m

2. A pastry chef takes 27 minutes to decorate a cake. At this rate, how much time is needed to decorate 8 cakes?

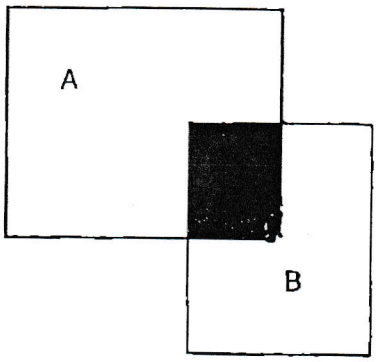
Ans: _____ h _____ min

3. The figure is made up of 4 identical squares. Find the sum of $\angle k$, $\angle m$ and $\angle n$.



Ans: _____ °

4. The figure is made up of 2 rectangles, A and B, overlapping each other. Given that $\frac{1}{6}$ of rectangle A is shaded while $\frac{1}{4}$ of rectangle B is shaded, what fraction of the figure is unshaded?



Ans: _____

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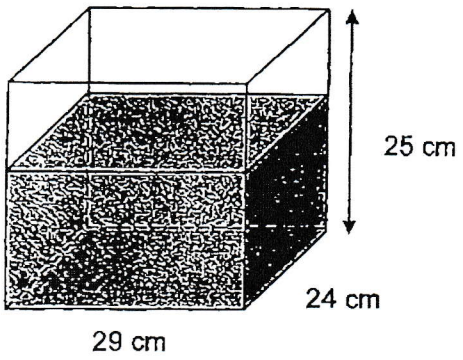
5. Jolie decorated the room with green and blue lights. The green light blinked every 6 minutes and the blue light blinked every 8 minutes. Both lights were turned on at the same time. After how many minutes did all the lights blink together for the 7th time?

Ans: _____ min

For questions **6** to **17**, show your workings 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. $\frac{3}{5}$ of the tank was filled with water. Another 7 ℓ of water was poured into the tank and some water overflowed. What was the volume of water that overflowed in litres?



Ans: _____ [3]

7. Mr Low took a taxi from home to his office.
His taxi fare was based on the charges shown.

First 1 km	$4.40
Every additional 500 m or less	$0.35

Mr Low travelled 3.4 km. How much was his taxi fare?

Ans: _____ [3]

8. Mdm Su paid $26.40 for 15 pairs of scissors and 9 pencils. The total cost of a pair of scissors and a pencil was $2.40. Find the cost of a pair of scissors.

Ans: _____ [3]

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9. Mrs Lim bought some beads for Ahmad and Bala. For every 8 beads Ahmad took, Bala took 5 beads. In the end, Ahmad had 216 more beads than Bala. How many beads did Mrs Lim buy?

Ans: _____ [3]

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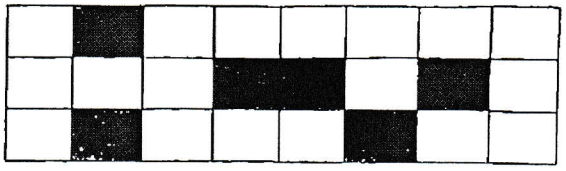
10. The figure below is made up of identical rectangles. How many more rectangles should be shaded so that the ratio of number of shaded rectangles to the number of unshaded rectangles is 3 : 5?



Ans: _____ [4]

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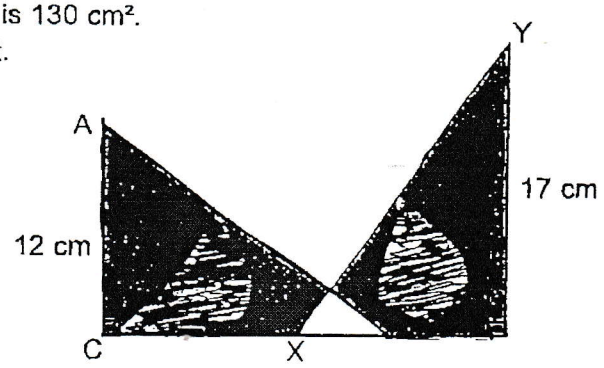
11. ABC and XYZ are identical right-angled triangles.
The total area of the shaded parts is 130 cm².
Find the area of the unshaded part.



Ans: _____ [4]

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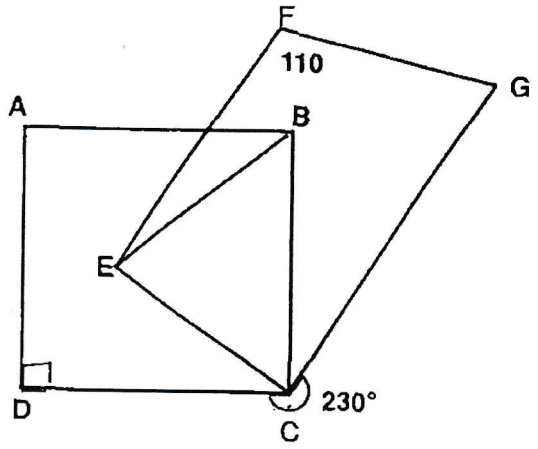
12. EFGC is a trapezium with EF parallel to CG, ABCD is a square and CE = BE. ∠CEF = 90°



(a) Find ∠FGC.

Ans: (a) _____ [1]

(b) Find ∠CBE.

Ans: (b) _____ [3]

13. The interest rates Rise Bank and Shine Bank pay on the amounts deposited are shown.

Rise Bank	
Amount deposited	Interest rate per year
Up to $50 000	1%
Above $50 000	2.5%

Shine Bank	
Amount deposited	Interest rate per year
Up to $100 000	1.5%
Above $100 000	2%

Mr Ali wants to deposit $90 000 into a bank.
Which bank, Rise Bank or Shine Bank, should he deposit his money so that he will earn more interest at the end of one year?
What is the difference in the amount of interest earned between the two banks?

Ans: _____ Bank

_____ [3]

14. The table shows the ferry schedule to Bintan Island (Indonesia) from Trust Marine Ferry Terminal (Singapore).

Operator	Departure Time (Singapore Time)		Duration	Sailing Days
BR Ferry	12 10	13 10	1h 10 min	Mon, Wed, Fri
Sinde Ferry	12 20	17 05	2h	Mon, Thu, Fri
Majestic Ferry	11 30	13 10	1h 40 min	Tue, Wed,
Fast Ferry	08 10	10 15	1h 20 min	Wed, Thu, Fri

Note: Bintan (Indonesia) Time is one hour behind Singapore Time (e.g. If it is 1300 in Bintan, it will be 1400 in Singapore)

Mrs Lim is planning for a ferry ride to Bintan island on a Wednesday. A local tour guide will pick her up at 13 30 (Bintan Time).

(a) (i) Which operator should she choose to purchase her ferry ticket, in order for her to arrive at a time nearest to 1330 (Bintan time)?

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

(ii) What will be the departure and arrival times of the ride?

Ans: (a) (ii) Departure Time (Singapore Time) _____ [1]

Arrival Time (Bintan Time) _____ [1]

(b) The local tour guide will have to wait for at least 20 minutes if Mrs Lim chooses this operator. Which operator is it?

Ans: (b) _____ [1]

15. The average mass of some boxes was 66 kg. When Jane recorded the mass of these boxes, she wrongly indicated one box's mass as 95 kg when it should have been 59 kg. As a result, the average mass was wrongly calculated as 69 kg. How many boxes were there?

Ans: _____ [4]

16 At a marathon, $\frac{4}{7}$ of the runners were male. $\frac{3}{4}$ of the male runners and 30 female runners completed the race. $\frac{2}{5}$ of the runners did not complete the race.

(a) What fraction of the runners who completed the race were females?

Ans: (a) _____ [3]

(b) How many fewer female runners than male runners were there in the marathon?

Ans: (b) _____ [2]

17. The numbers below represent the seat numbers at a theatre. The first 5 rows of the seat arrangement are shown.

			Screen		
Row 1 (1 seat)			1		
Row 2 (2 seats)		3		5	
Row 3 (3 seats)		7	9	11	
Row 4 (4 seats)	13	15	17	19	
Row 5 (5 seats)	21	23	25	27	29

(a) Find the greatest seat number in Row 9.

Ans: (a) _____ [2]

(b) Maya's seat number is 53. Which Row is she seated at?

Ans: (b) Row _____ [1]

(c) Each of the statements below is either true, false or not possible to tell from the information given. Put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
The seat number in the theatre is always an odd number.			
For a seat capacity of 210, at least 21 rows are needed.			

[2]

End of Paper 2

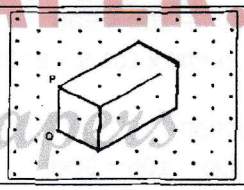
ANSWER KEY

YEAR : 2024
LEVEL : PRIMARY 5
SCHOOL : TAO NAN
SUBJECT : MATHEMATICS
TERM : EOY

BOOKLET A

Q1	1	Q2	1	Q3	3	Q4	4	Q5	3
Q6	2	Q7	1	Q8	2	Q9	3	Q10	1
Q11	1	Q12	1	Q13	4	Q14	2	Q15	1

BOOKLET B

Q16	$\frac{23}{9} = 2\frac{5}{9}$	Q17	$1\frac{3}{5} \times 60 = \frac{3}{5} \times \frac{60}{1} = 36$ 60 + 36 = 96min
Q18	53°	Q19	$\frac{1}{4} \times 60 = 15$ 15min + 15min = 30min 30 ÷ 5 = 6
Q20	56	Q21	
Q22	6000 ÷ 5 = 1200 1200ml = 1.2L	Q23	A : B 2 : 8 1 : 4
Q24	D	Q25	15min → $12 \times \frac{15}{10} = \frac{180}{10} = 18$
Q26	$6\frac{1}{4} = 6\frac{25}{100} = 6.25$ $6.25 \approx 6.3$	Q27	140 ÷ 4 = 35
Q28	1 unit = $1\frac{1}{3} - \frac{4}{5} = 1\frac{5}{15} - \frac{12}{15}$ $= \frac{20}{15} - \frac{12}{15} = \frac{8}{15}$ $\frac{8}{15} \times 2 = \frac{16}{15} = 1\frac{1}{15} L$	Q29	3 – 1 = 2 90 ÷ 2 = 45 30 – 1 = 29 45 x 29 = 1305m
Q30	40 min		

PAPER 2

Q1	3.45 – 1.02 = 2.43 2.43 – 0.33 x 4 = 1.11m	Q2	1 cake → 27 min 8 cake → 27 x 8 = 216 216 ÷ 60 = 3.6 (ANS: 3h 36min)

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<table>
<tr><td>Q3</td><td>90 ÷ 2 = 45°
<m = 45°
<n + <k = 180° - 90° = 90°
Total = 90° + 45° = 135°</td><td>Q4</td><td>$\frac{unshaded}{total} = \frac{3+5}{6+3} = \frac{8}{9}$</td></tr>
<tr><td>Q5</td><td>7th time
24min x 7 = 168min</td><td>Q6</td><td>$\frac{3}{5}$ x 29 x 24 x 25 = 10440
10440 cm^3 = 10.44L
10.44L + 7L = 17.44L
29 x 24 x 25 = 17400
17400cm^3 = 17.4L
17.44 – 17.4 = 0.04L</td></tr>
<tr><td>Q7</td><td>1.75 + 4.40 = 6.15</td><td>Q8</td><td>$2.40 x 9 = $21.60 a pair of scissors cost $0.80</td></tr>
<tr><td>Q9</td><td>1 $unit$ = 216 ÷ 3 = 72
Total = 576 + 360 = 936</td><td>Q10</td><td>3 x 8 = 24
9 – 6 = 3</td></tr>
<tr><td>Q11</td><td>1 triangle = $\frac{1}{2}$ x 12 x 17 = 102
2 triangle = 102 x 2 = 204
Unshaded = (204 – 130)÷2=37cm^2</td><td>Q12</td><td>a) <DCG=360-230=130°
<BCG=130-90=40°
<ECB=130-40-40=50°
180 – 110 = 70°
<FGC is 70°
b) <CBE=130 – 40 – 40 = 50°</td></tr>
<tr><td>Q13</td><td>Rise
100% → 90000
1%→90000 ÷ 100 = 900
102.5% → 900 x 102.5 = 92250
Shine
100%→ 90000
1% → 90000÷ 100 = 900
101.5% → 900 x 91350
92250 – 91350 = 900
ANS : Rise bank $900</td><td>Q14</td><td>a)i. BR Ferry
a)ii. 13 20 (Arrival) 13 10 (Departure)
b) Majestic Ferry</td></tr>
<tr><td>Q15</td><td>Total avg diff = 69 – 66 = 3
1 box diff = 95 – 59 = 36
No of boxes = 36 ÷ 3 = 12</td><td>Q16</td><td>a) Male completed : 5 units x 3 = 15 units
Female completed : 21 units – 15 units = 6 units
ANS : $\frac{6}{21}$
b) Male – female = 20 units – 15 units = 5 units
5 units = 5 x 5 = 25</td></tr>
<tr><td>Q17</td><td>a) 89
b) 7
c)<table><tr><th>True</th><th>False</th></tr><tr><td>√</td><td></td></tr><tr><td></td><td>√</td></tr></table></td><td></td><td></td></tr>
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