2021 PRIMARY 5 END-OF-YEAR EXAMINATION

Name: _____ ( ) Date: 28 October 2021

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 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. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

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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).
Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

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1. Express seven million, six hundred and fifteen thousand and eight in numerals.

   (1) 7 615 800
   (2) 7 615 008
   (3) 7 061 508
   (4) 7 015 608

2. The mass of *10* Singapore *$1* coins is about _____.

   (1) 0.76 g
   (2) 7.6 g
   (3) 76 g
   (4) 760 g

3. Express 0.018 as a percentage.

   (1) 0.018%
   (2) 0.18%
   (3) 1.8%
   (4) 18%

4. Find the difference between 0.08 and 7.324.

   (1) 7.244
   (2) 7.316
   (3) 7.332
   (4) 7.404

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5. Find the product of $\frac{8}{3}$ and $\frac{5}{12}$.

(1) $\frac{5}{32}$

(2) $\frac{9}{10}$

(3) $1\frac{1}{9}$

(4) $6\frac{2}{5}$

6. How many quarter turns does the minute hand of a clock make from 10.30 a.m. to 1 p.m.?

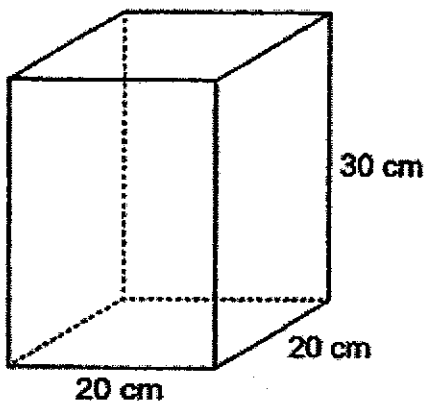
(1) 3

(2) 5

(3) 6

(4) 10

7. A rectangular tank measures 20 cm by 20 cm by 30 cm.
What is the capacity of the tank?



(1) 6000 cm^3

(2) 9000 cm^3

(3) 12 000 cm^3

(4) 18 000 cm^3

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8. Samad runs thrice a week. Each time, he runs $2\frac{1}{4}$ km from his home to the park. Then he returns on the same route from the park to his home.
What is the total distance that Samad runs in a week?

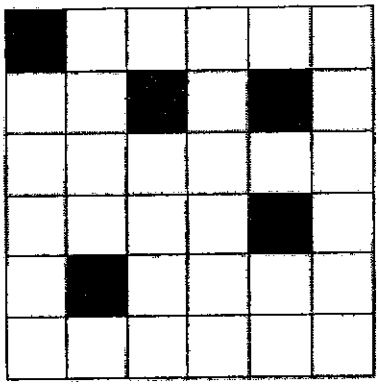
(1) $4\frac{1}{2}$ km

(2) $6\frac{3}{4}$ km

(3) $13\frac{1}{2}$ km

(4) $15\frac{3}{4}$ km

9. The figure below is divided into 36 equal squares.
How many more squares must be shaded so that 50% of the figure is shaded?



(1) 13

(2) 18

(3) 23

(4) 31

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10. The table shows the number of books read by some students.
How many students read at least 3 books?

Number of books	*Number of students*
0	18
1	37
2	52
3	66
4	45
more than 5	27

(1) 66
(2) 72
(3) 107
(4) 138

11. There are 25 goats and ducks on a farm and there are a total of 68 legs.
How many ducks are there?

(1) 9
(2) 12
(3) 15
(4) 16

12. The total mass of 20 identical cookie jars is 4.7 kg.
Find the mass of 3 cookie jars.

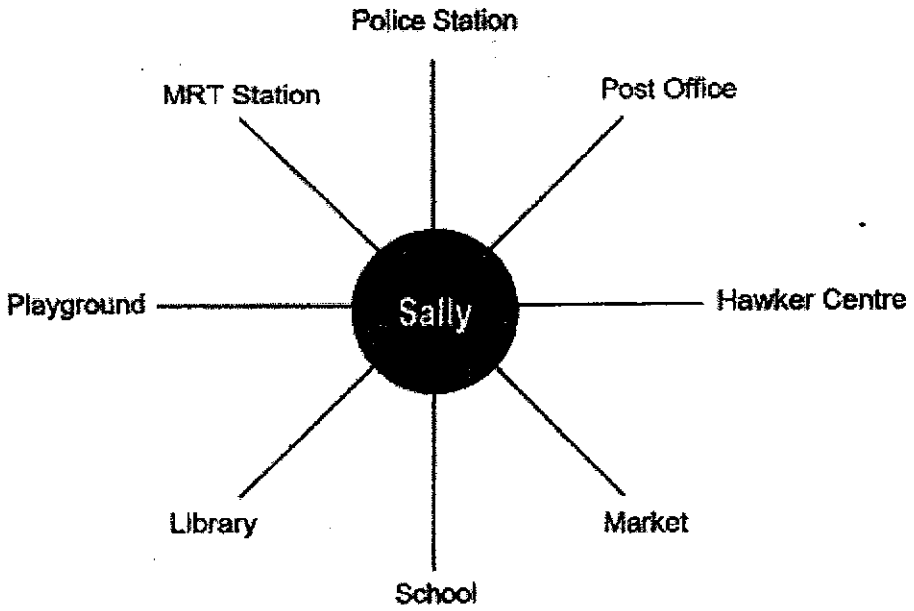
(1) 0.235 kg
(2) 0.705 kg
(3) 2.35 kg
(4) 7.05 kg

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13. Raj packed sweets into three containers, A, B and C, in the ratio 3 : 4 : 2.
He packed 30 sweets into container A.
How many sweets did he have altogether?

(1) 90
(2) 70
(3) 60
(4) 50

14. The diagram below shows the different places in a neighbourhood.

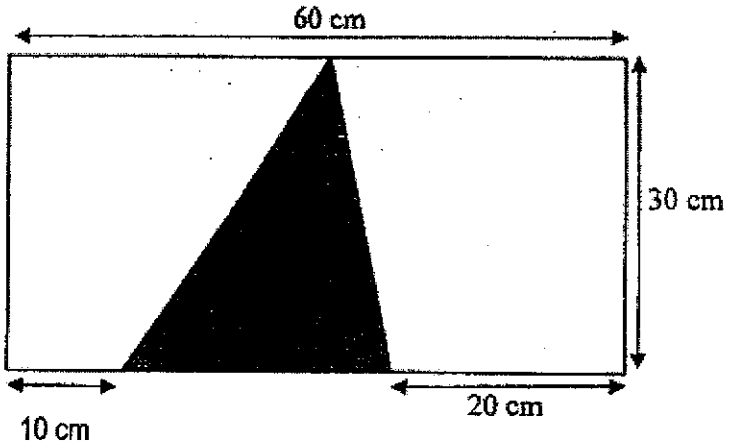


Sally is facing the library after turning 270° anti-clockwise. Where was she facing at first?

(1) Market
(2) Playground
(3) MRT Station
(4) Hawker Centre

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15. The figure is made up of a rectangle and a triangle.
Find the shaded area.



(1) 1800 cm^2
(2) 900 cm^2
(3) 450 cm^2
(4) 225cm^2

End of Booklet A

Go on to Booklet B

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2021 PRIMARY 5 END-OF-YEAR EXAMINATION

Name: _____ ( ) Date: 28 October 2021

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. Write your answers in this booklet.
6. You are **not** allowed to use a calculator.

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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. Which letter has both parallel and perpendicular lines?

H A S

Ans: _____

17. Express 7 tens and 23 tenths in numerals.

Ans: _____

18. Find the sum of $\frac{1}{6}$ and $1\frac{3}{4}$. Express your answer in its simplest form.

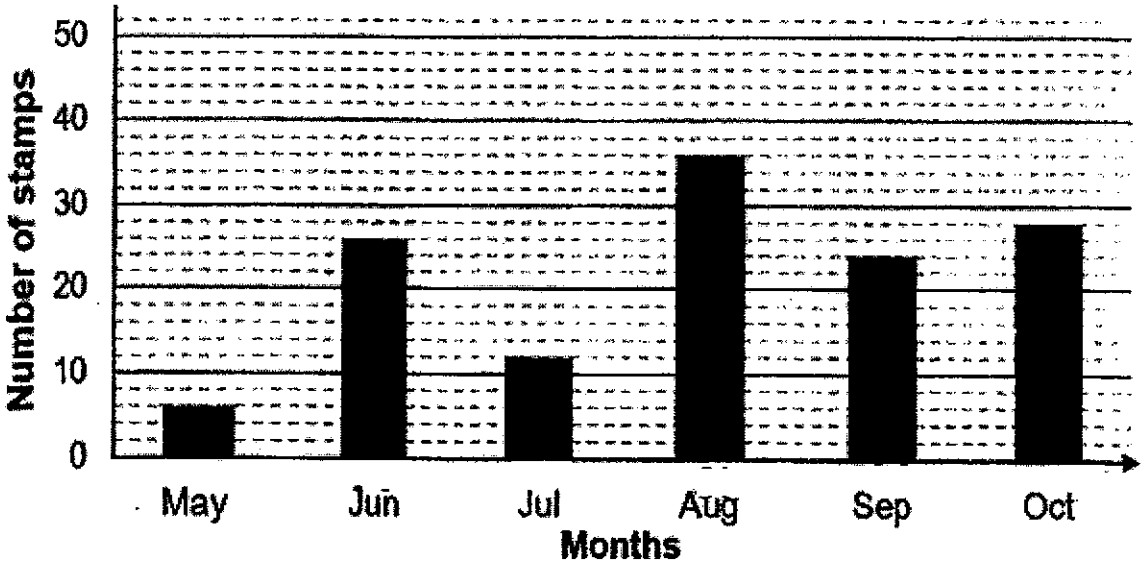
Ans: _____

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19. Three students took part in a race. Ali took 48 s to complete the race. Bala took 3 s more than Ali while Carl was faster than Bala by 1 s. How long did Carl take to complete the race?

Ans: _____

20. The bar graph shows the number of stamps Raju collected over 6 months.



In which month did he collect twice as many stamps as he did in July?

Ans: _____

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

21. Use all the digits below to form the greatest odd number.

2	5	3	9	0	6

Ans: _____

22. $\frac{5}{12}$ of a number is 15. What is $\frac{5}{6}$ of the number?

Ans: _____

23. The ratio of A : B is 1 : 2 and the ratio of B : C is 3 : 4.
What is the ratio of A : C?

Ans: _____

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24. Mary had $50. She spent $35 and saved the rest.
What percentage of her money did she save?

Ans: _____%

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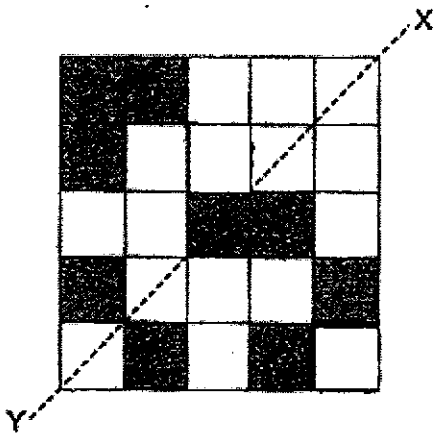
25. Huiyi is 1.6 m tallt She is 3 cm taller than her sister.
What is her sister's height?

Ans: _____m

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26. In the figure below, shade 2 squares such that the figure is symmetrical along the line XY.

Ans:

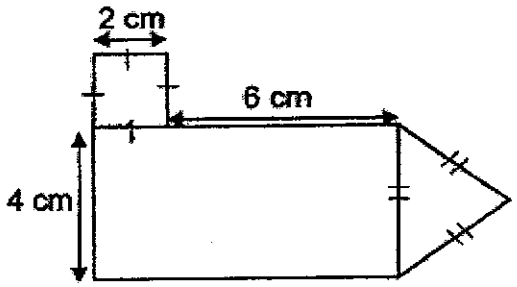


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27. Water flows from a water tank at the rate of 450 mℓ every minute.
At this rate, how much water flows from the water tank in 20 seconds?

Ans: _____ mℓ

28. The figure is made up of a rectangle, a square and an equilateral triangle.
Find the perimeter of the figure.



Ans: _____ cm

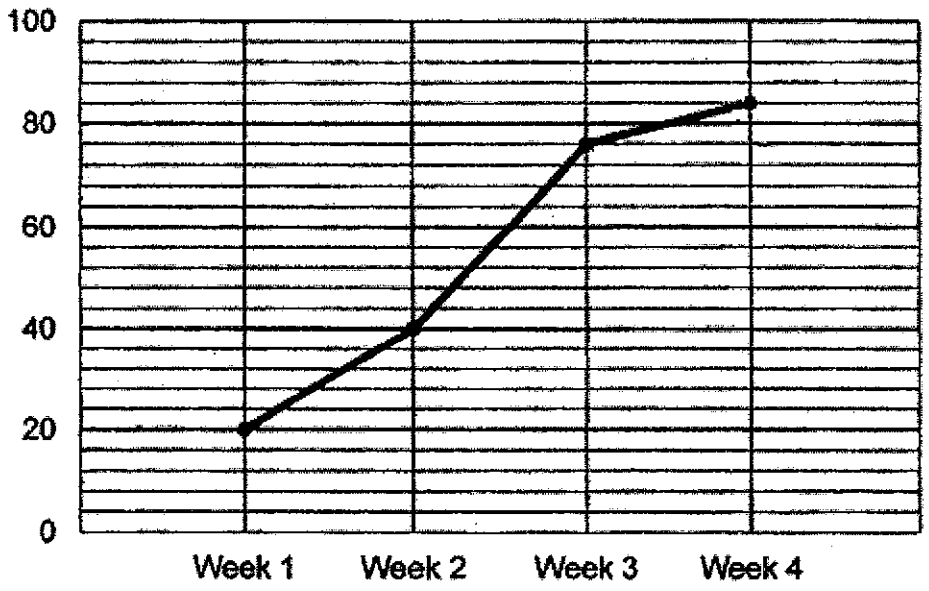
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29. Raju started saving some money on Monday. Each day, he saved $0.50 more than the day before. He saved a total of $9 from Monday to Thursday.
How much did Raju save on Monday?

Ans: $_____

---

30. The line graph shows the amount of money Aminah by saved ~~at the end of each week from Week 1 to~~ Week 4.



Aminah wants to buy a present that cost $82.
By which week will she have enough money to buy the present?

Ans: Week _____

End of Booklet B

End of Paper 1

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2021 PRIMARY 5 END-OF-YEAR EXAMINATION

Name: _____ ( ) Date: 28 October 2021

Class: Primary 5 ( ) Time: 11.00 a.m. - 12.30 p.m.

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. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

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

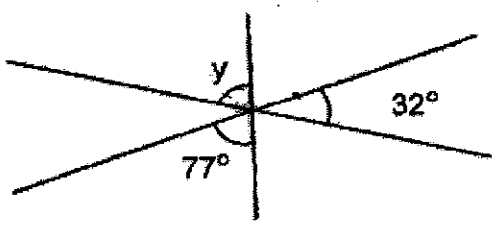
1. At a wet market, squids are sold at $1.68 for every 100g.

   How much does $1\frac{1}{10}$ kg of squids cost?

Ans: $ _____

2. The following figure, not drawn to scale, is made up of straight lines.

   Calculate ∠y.



Ans: ∠y = _____°

3. Bala's daily screen time on his laptop is 35 minutes on *weekdays* and 1 hour daily on Saturdays and Sundays. Bala was given $7\frac{1}{2}$ hours of total screen time based on this arrangement. He started on Friday. On which day would he complete the total duration?

Ans: _____

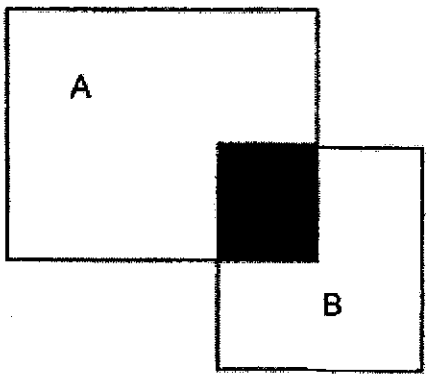
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4. Find the sum of all the odd numbers that are less than 40.

Ans: _____

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5. Rectangle A and Rectangle B overlap 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 **not shaded**?



Ans: _____

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For questions **6** to **17**, show your working clearly in the space provided for each question 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. 2 mangoes and 1 durian cost $9.10. A mango and 2 durians cost $12.80. Find the total cost of a mango and a durian.

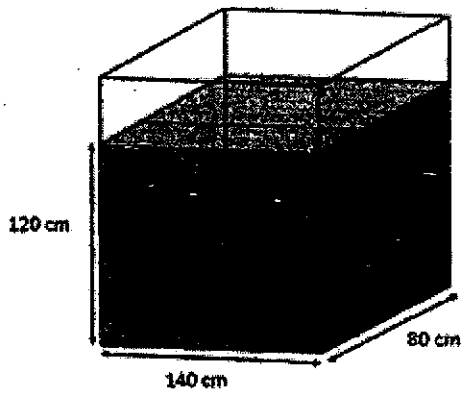
Ans: _____ [3]

7. A typist can type 90 words per minute. For every 360 words, 7 words are typed wrongly. At this rate, how many words are typed correctly in 16 minutes?

Ans: _____ [3]

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8. A rectangular tank is 75% filled with water. How much more water is needed to fill it completely? Give your answer in litres.



Ans: _____ [3]

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9. This year, Kai Xuan's age is a multiple of 7. Next year, his age will be a multiple of 5. He is between 20 years old and 60 years old.
How old will he be in 6 years' time?

Ans: _____ [3]

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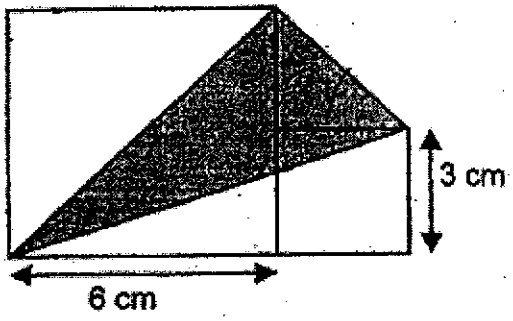
10. During a sale, Mr Shafi sold 2 identical laptops for $3600. This was after a 25% discount. What was the original price of one laptop?



Ans: _____ [3]

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11. The figure shows two squares and a shaded triangle.
Find the shaded area.



Ans: _____ [4]

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12. Anne, Ming and Shanta had sweets in the ratio of 10 : 5 : 3. After Anne gave 68 sweets to Ming and Shanta, the three of them had the same number of sweets.

a) Find the ratio of the number of sweets that Anne had to the number of sweets Ming had to the number of sweets that Shanta had in the end.

b) Find the total number of sweets the children had.

Ans: (a) _____ [1]

(b) _____ [3]

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13. The first 15 numbers of a number pattern are given below.

4, 0, 1, 2, 4, 0, 1, 2, 4, 0, 1, 2, 4, 0, 1 ...
1st 15th

(a) What is the 628th number?

(b) What is the sum of the first 627 numbers?

Ans: (a) _____ [1]

(b) _____ [3]

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14. Susan bought some English books at $14 each. She also bought an equal number of Chinese books at a different price. The average price of an English and a Chinese book was $11. Susan paid $30 more for the English books than the Chinese books.

(a) What was the cost of a Chinese book?

(b) How many English books did Susan buy?

Ans: (a) _____ [2]

(b) _____ [2]

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15. Part of the schedule for the bus shuttle service from East Mall to and from View Mall is shown below.

Bus Leaves East Mall	**Bus Arrives View Mall**		***Bus Leaves View Mall***	***Bus Arrives East Mall***
10 55	11 15		11 20	11 40
11 45	12 05		12 10	12 30
12 35	12 55		13 00	13 20
13 25	13 45		13 50	14 10
14 15	14 35		14 40	15 00

Peter took the bus from East Mall to View Mall. Then he walked 10 minutes to reach John's house. He reached John's house at 12.15 p.m. Half an hour later, Peter and John decided to visit View Mall. They left View Mall in time for Peter to take the bus back to East Mall. Peter reached East Mall at 3 p.m.

a) At what time did Peter take the bus from East Mall?

b) How long did Peter and John spend at View Mall?

Ans: a) _____ [2]

b) _____ [2]

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16. On Friday, Sean read $\frac{3}{7}$ of a storybook.

On Saturday, he read 28 pages of the book.

On Sunday, he read $\frac{2}{5}$ of the remaining book, leaving 36 pages unread.

a) Find the number of pages read on Sunday.

b) Find the total number of pages in the book.

Ans: (a) _____ [2]

(b) _____ [3]

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17. Dawn had 3 times as many beads as toothpicks. After she used 186 beads and 27 toothpicks, there were twice as many toothpicks as beads.

(a) How many beads did Dawn have in the end?

(b) How many toothpicks did Dawn have at first?

Ans: (a) _____ [3]

(b) _____ [2]

End of Paper 2

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SCHOOL : TAO NAN PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2021 EOY

PAPER 1 BOOKLET A

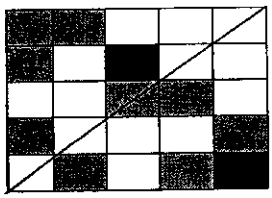
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	3	1	3	4	3	3	1	4

Q11	Q12	Q13	Q14	Q15
4	2	1	1	3

PAPER 1 BOOKLET B

Q16)	H
Q17)	70 + 2.3 = 72.3
Q18)	$\frac{1}{6} + 1\frac{3}{4} = \frac{1}{6} + \frac{7}{4}$ $= \frac{2}{12} + \frac{21}{12}$ $= \frac{23}{12}$ $= 1\frac{11}{12}$
Q19)	No. of s Bala took = 48 + 3 = 51 No. of s Carl took = 51 – 1 = 50
Q20)	12 x 2 = 24 Ans: September
Q21)	965203
Q22)	$\frac{1}{12}$ of the number = 15 ÷ 5 = 3 $\frac{10}{12}$ of the number = 3 x 10 = 30

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Q23)	A:B 1:2 3:6 B:C 3:4 6:8 A:C 3:8
Q24)	Amount of money saved = \$50 - \$35 = 15 $\frac{15}{50}$ x 100% = 30%
Q25)	1.6m = 160cm Sister's height = 160cm – 3cm = 157cm = 1.57m
Q26)	
Q27)	1 min = 60s 60s → 450mℓ 20s → 450mℓ ÷ 3 = 150mℓ
Q28)	(3 x 4) + (2 + 6) + 6 + (2 x 3) = 32cm
Q29)	M | U Tue | U | \$0.50 W | U | \$0.50 x 2 Thu | U | \$0.50 x 3 4U = \$9 – (\$0.50 X 6) = \$6 1U = \$6 ÷ 4 = \$1.50
Q30	4

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PAPER 2

Q1)

$1\frac{1}{10}$kg ÷ 0.1kg = 11

No. of 100g of squid bought = 11

Cost of $1\frac{1}{10}$kg of squid = 11 x $1.68

= $18.48

$1\frac{1}{10}$kg of squid cost $18.48

Q2)

Angle y = 180^0 - 32^0 - 77^0

= 71^0

Q3)

Fri	35min
Sat	60min
Sun	60min
Mon	(35 x 5) min
Tue	
Wed	
Thu	
Fri	
Sat	120min
Sun	

7.5 hours = 7 hour 30 min

= 450 min

450 – 35 – 60 – (35 x 5) – 60 – 60 = 0 (Sunday)

Ans: Sunday

Q4)

Odd no. less than 40 = 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39

Total sum of all odd no. = 10 pairs of 40

= 40 x 10 = 400

The sum of all odd numbers is 400.

Q5)

$\frac{1}{6}$ of rectangle A = $\frac{1}{4}$ of rectangle B

(Making the numerator the same)

Using the denominator:

A : B : Shaded : Total

6 : 4 : 1 : 9

Fraction of figure not shaded in A = $\frac{6}{9} - \frac{1}{9}$

$= \frac{5}{9}$

Fraction of figure not shaded in B = $\frac{4}{9} - \frac{1}{9}$

$= \frac{3}{9}$

Fraction of figure not shaded = $\frac{5}{9} + \frac{3}{9}$

$= \frac{8}{9}$

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	The fraction of the figure is $\frac{8}{9}$.
Q6)	2 mangoes + 1 durian = \$9.10 → (1) 1 mango + 2 durians = \$12.80 → (2) 2 mangoes + 4 durians = \$25.60 → (3) Cost of 3 durians = \$25.60 - \$9.10 = \$16.50 Cost of 1 durian = \$16.50 ÷ 3 = \$5.50 Cost of 1 mango = \$12.80 – (\$5.50 x 2) = \$1.80 Total cost of mango and durian = \$5.50 + \$1.80 = \$7.30 The total cost of manga and durian is \$7.30
Q7)	No. of words typed in 16 mins = 16 x 90 = 1440 1 set = 7 words No. of sets = 1440 ÷ 360 = 4 No. of words typed wrongly = 4 x 7 = 28 No. of words typed correctly = 1440 – 28 = 1412 1412 words are typed correctly in 16 mins.
Q8)	Vol of 75% water = 140cm x 80cm x 120cm = 1344ℓ 1344ℓ ÷ 3 = 448ℓ 1% of water = 1344000cm^3 ÷ 75 = 17920cm^3 100% of water = 17920cm^3 x 100 = 1792000cm^3 = 1792ℓ Amount of water needed to fill the tank completely = 1792ℓ - 1344ℓ = 488ℓ 488ℓ of water is needed to fill the tank completely.
Q9)	<table><tr><td>M of 7 →</td><td>21, 28, 35, 43, 49, 56</td></tr><tr><td>M of 5 →</td><td>20, 25, 30, 35, 40, 45, 50, 55, 60</td></tr></table> Kai Xuan's age now = (50 – 1) = 49 Kai Xuan's age om 6 years time = 49 + 6 = 55 He will be 55 years old in 6 years time.

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Q10)

Cost of laptop after discount = \$3600 ÷ 2 \$1800
100% - 25% = 75%
75% of original price of laptop = \$1800
5% of original price of laptop = \$1800 ÷ 15
= \$120
100% of original price of laptop = \$120 x 20
= \$2400
The original price of 1 laptop is \$2400

Q11)

Area of figure = (6 x 6) + (3 x 3) + ($\frac{1}{2}$ x 3 x 3)
= 36 + 9 + 4.5
= 49.4cm^2
Area of A = $\frac{1}{2}$ x 6 x 6
= 18cm^2
Area of B = $\frac{1}{2}$ x 9 x 3
= 13.5cm^2
49.5cm^2 – 18cm^2 – 13.5cm^2 = 18cm^2

Q12)

a)

Ratio	Anne	Ming	Shanta	Total
Before	10	5	3	18
Change	- 68	+ ?	+ ?	
	6	6	6	18

18 ÷ 3 = 6

A:M:S
6 : 6: 6
1 : 1: 1

b)
10U – 6U = 4U
4U = 68
1U = 68 ÷ 4
= 17
18U = 17 x 18
= 306
The total number of sweets the children had is 306.

Q13)

a)
628 ÷ 4 = 157
628th number = 2
b)
Sum of 1 set = 4 + 0 + 1 + 2
= 7
No. of sets = 627 ÷ 4
= 156R3
156 x 7 = 1092
1092 + 4 + 0 + 1 = 1097

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Q14) a)

Cost of a english and chinese book = $11 x 2
= $22

Cost of a chinese book = $22 - $14
= $8

The cost of a chinese book is $8.

b)



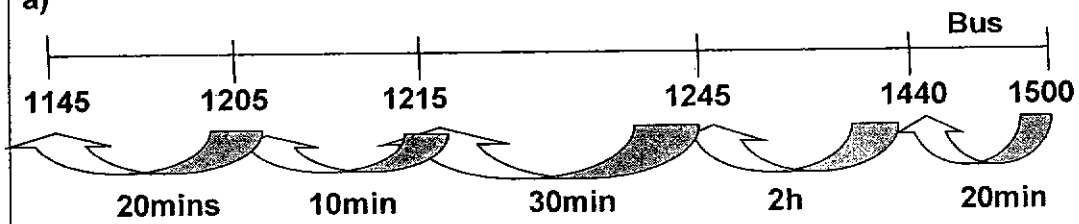
Dif. Of 1 set = $14 - $8
= $6

No. of sets = $30 ÷ $6
= 5

No. of English books Susan bought = 5

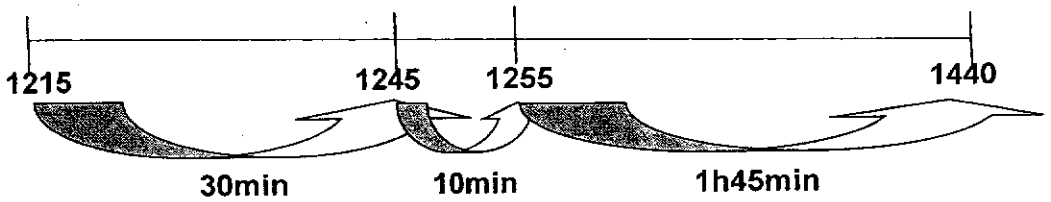
Susan bought 5 English books.

Q15) a)



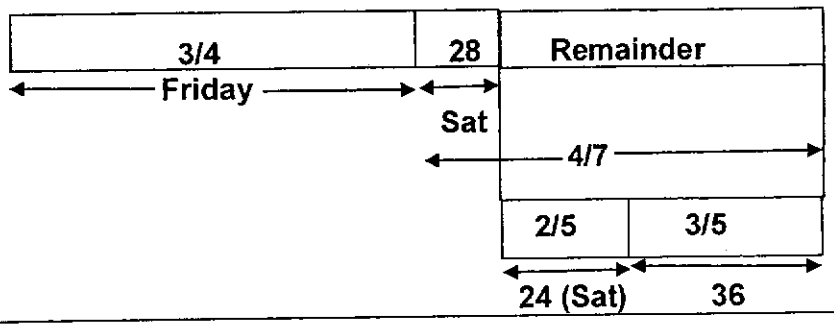
He took the bus from East Mall at 11.45pm.

b)



Peter and John spent 1h 45min at View Mall.

Q16)



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a)

$\frac{3}{5}$ of remainder = 36

$\frac{1}{5}$ of remainder = 36 ÷ 3

= 12

$\frac{2}{5}$ of remainder = 12 x 2

= 24

No. of pages read on Sunday = 24

The number of pages read on Sunday is 24.

b)

$\frac{5}{5}$ of remainder = 12 x 5

= 60

$\frac{4}{7}$ of remainder = 60 + 28

= 88

$\frac{1}{7}$ of remainder = 88 ÷ 4

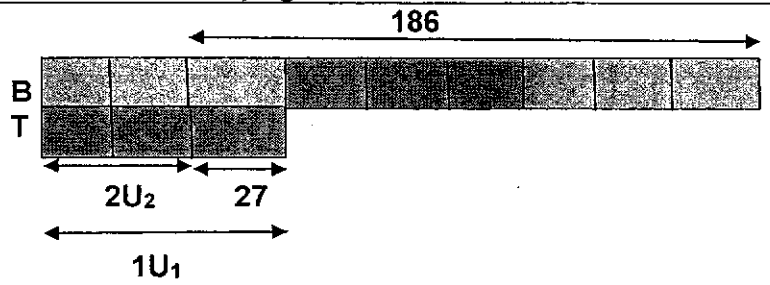
= 22

$\frac{7}{7}$ of remainder = 22 x 7

= 154

The total no. of pages in the book is 154.

Q17



a)

186 – (27 x 3) = 105

105 ÷ 5 = 21

b)

21 x 2 + 27 = 69

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