NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2018

PRIMARY 3

MATHEMATICS
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour 45 minutes

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____ ( )

Class: Primary 3 ( )

Questions 1 to 20 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. (40 marks)

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1. Arrange the following numbers in order, starting from the smallest.

5642	8744	8547

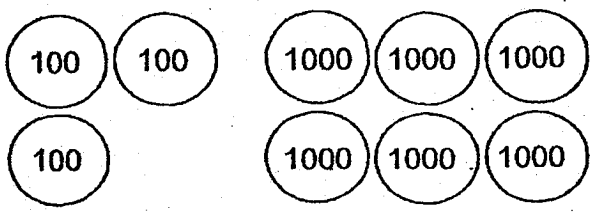
(1) 5642, 8744, 8547

(2) 5642, 8547, 8744

(3) 8547, 8744, 5642

(4) 8744, 8547, 5642

2. Look at the number discs below.



What is the value represented by all the number discs shown?

(1) 3600

(2) 6030

(3) 6300

(4) 9000

3. Subtract 1974 from 7563.

(1) 5589

(2) 6411

(3) 6629

(4) 6699

4. What is the sum of 6489 and 3210?

(1) 3279

(2) 3699

(3) 9279

(4) 9699

5. What is the product of 748 and 6?

(1) 4248

(2) 4488

(3) 4524

(4) 5028

6. What is 56 divided by 7?

(1) 6

(2) 7

(3) 8

(4) 9

7. What is the remainder when 878 is divided by 3?

(1) 292

(2) 2

(3) 8

(4) 6

8. Which of the following is **not** an equivalent fraction of $\frac{1}{4}$?

(1) $\frac{7}{28}$

(2) $\frac{6}{24}$

(3) $\frac{3}{12}$

(4) $\frac{6}{20}$

9. Arrange the fractions in order, starting from the smallest to the greatest.

$\frac{1}{2}$, $\frac{2}{5}$, $\frac{3}{4}$

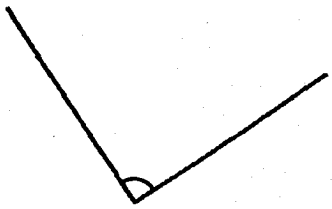
(1) $\frac{2}{5}$, $\frac{1}{2}$, $\frac{3}{4}$

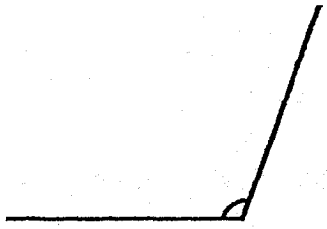
(2) $\frac{3}{4}$, $\frac{2}{5}$, $\frac{1}{2}$

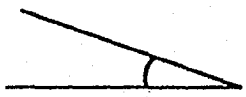
(3) $\frac{2}{5}$, $\frac{3}{4}$, $\frac{1}{2}$

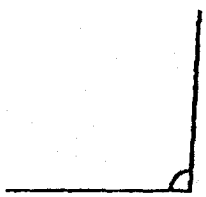
(4) $\frac{1}{2}$, $\frac{2}{5}$, $\frac{3}{4}$

10. Which one of the following marked angles is a right angle?

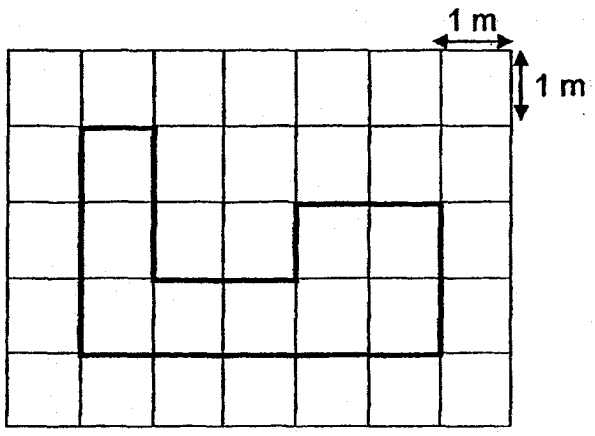
(1) 

(2) 

(3) 

(4) 

11. Study the figure shown in the grid below.



What is the perimeter of the figure?

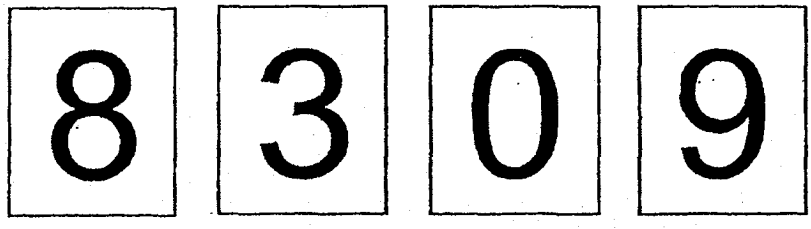
(1) 9 m

(2) 15 m

(3) 18 m

(4) 20 m

12. Look at the number cards below.
Each number can only be used once.



Form the smallest 4-digit **even** number with the given cards.

(1) 9803

(2) 9380

(3) 3098

(4) 3089

13. Study the number pattern below.

6023	6203	6383	6563	?

What is the missing number?

(1) 6763

(2) 6743

(3) 6643

(4) 6581

14. The number of chickens in a farm is 4 times as many as the number of ducklings.
There are 312 ducklings in the farm.
How many more chickens than ducklings are there in the farm?

(1) 1248

(2) 936

(3) 234

(4) 78

15. Tom and his 7 friends are each able to fold 1 paper crane in 1 day.
What is the smallest number of days for them to fold 672 paper cranes?

(1) 112

(2) 96

(3) 84

(4) 74

16. Mr Ng cycles 1965 m from home to his office.
In the evening, he cycles the same distance home.
What is the total distance he cycles daily in kilometres and metres?

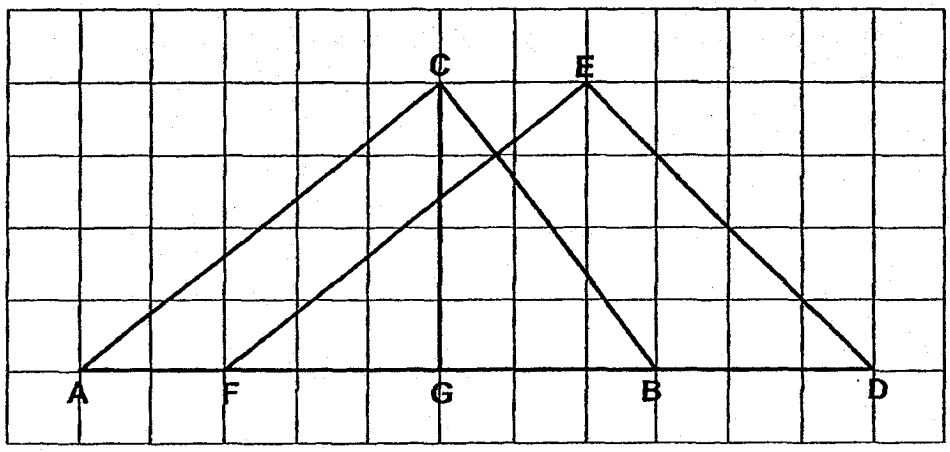
(1) 1 km 965 m

(2) 3 km 930 m

(3) 19 km 65 m

(4) 39 km 30 m

17. Look at the figure below.



Name a pair of parallel lines.

(1) AB // CG

(2) CB // ED

(3) AC // CB

(4) AC // FE

18. The length of a rectangle is 28 cm.
The length is 4 times as long as its breadth.
What is the perimeter of the rectangle?

(1) 112 cm

(2) 70 cm

(3) 35 cm

(4) 7 cm

19. Ahmad has 899 apples.
After throwing away 345 rotten apples, he packs the rest of the apples into bags.
Each bag can contain at most 8 apples.
What is the smallest number of bags that he needs to hold all the rest of the apples?

(1) 69

(2) 70

(3) 155

(4) 156

20. Ravindran is thinking of a 3-digit number.
It is an even number divisible by 5.
The digits in the hundreds and tens places are multiples of 4.
The digit in the tens place is bigger than the digit in the hundreds place.
What is the number?

(1) 845

(2) 840

(3) 480

(4) 120

NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2018

PRIMARY 3

MATHEMATICS
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

Name: _____ ( )

Class: Primary 3 ( )

Parent's Signature:

Booklet A	**/ 40**
Booklet B	**/ 60**
Total	**/ 100**

Any query on marks awarded should be raised by **5 November 2018**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Questions **21** to **40** 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. (40 marks)

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21. Susie baked 6429 cookies.
She gave away 684 cookies and baked another 550 cookies.
How many cookies did she have in the end?

Ans: _____

---

22. What is the missing number in the box?

$$\frac{\boxed{?}}{8} = \frac{9}{24}$$

Ans: _____

---

23. Write 193 minutes in hours and minutes.

Ans : _____h _____ min

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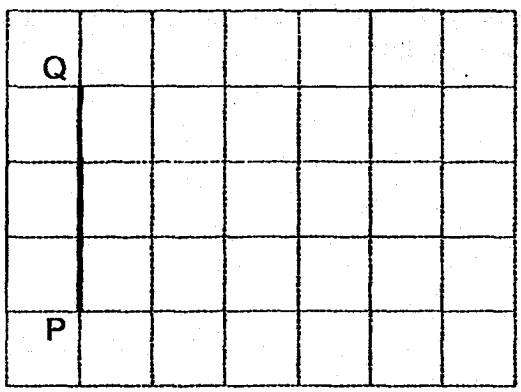
24. A line PQ is drawn in the box below.

a) Draw and label line RQ that is perpendicular to line PQ.

b) Draw and label line ST which is parallel to line PQ.



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25. In a hall, 63 chairs were arranged in 7 equal rows.
Each chair has 3 balloons tied to it.
How many balloons are there in each row?

Ans: _____

---

26. Happy Shop sells 639 burgers in a day.
Super Shop sells 8 times as many burgers as Happy Shop in the day.
How many burgers are sold by the two shops altogether in the day?

Ans: _____

---

27. A florist has 923 roses.
He packs 4 roses in each bouquet.
How many roses are left unpacked?

Ans: _____

---

28. A group of 6 friends shared a packet of sweets.
After each of them took 27 sweets, there were 31 sweets left.
How many sweets were there in the packet at first?

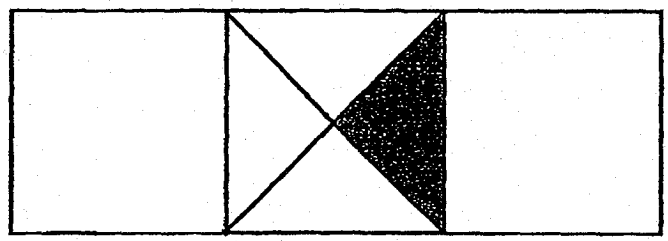
Ans: _____

---

29. $\frac{1}{12}$ of the figure below is shaded.

John wants $\frac{3}{12}$ of the figure to be shaded.

Shade to show $\frac{3}{12}$ of the figure shaded.



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30. $1 - \frac{2}{3} - \frac{1}{12} = \boxed{?}$

What is the missing fraction?
Leave your answer in the simplest form.

Ans: _____

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31. Joshua had $73.30 at first.
He spent $24.40 on a book and his father gave him $17.70.
How much money did he have in the end?

Ans: $ _____

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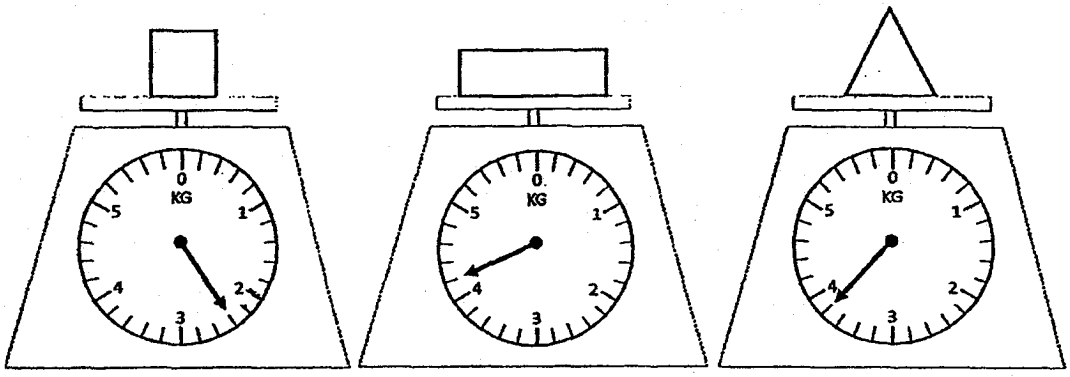
32. A weighing scale was used to measure the mass of 3 objects.



What is the mass of the lightest object?
Give your answer in kilograms and grams.

Ans: _____ kg _____ g

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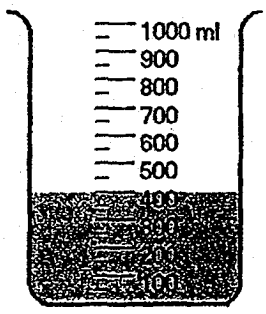
33. A bottle contains 950 ml of juice.
Deepti poured 300 ml of juice into a cup.
She accidentally spilled some juice while pouring.
She then measured the remaining amount of juice in the bottle using a measuring cup as shown below.



How much juice did she spill?

Ans: _____ ml

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34. Muthu left for Kuala Lumpur from his house on Saturday.
He arrived in Kuala Lumpur at 12.15 p.m.
The journey took him 4 hours 45 minutes.
What time did he leave his house?
Give your answer in a.m. or p.m.

Ans: _____

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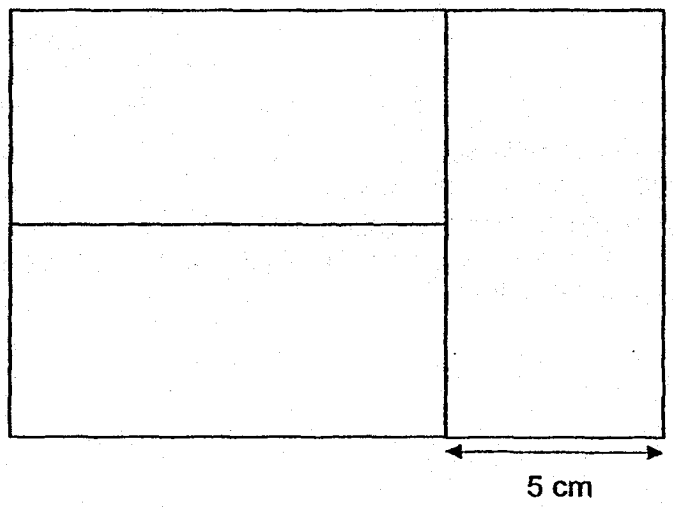
35. The following figure is made up of 3 identical rectangles.
The breadth of the rectangle is 5 cm.



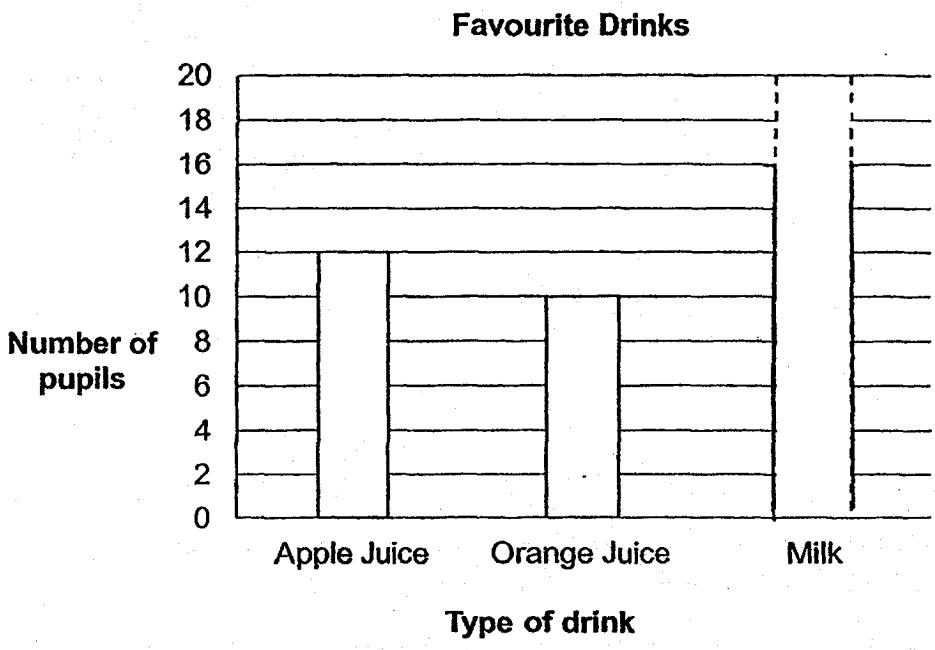
What is the area of the figure?

Ans: _____ cm^2

---

36. A teacher conducted a survey with a class of 38 pupils.
He asked everyone in the class about their favourite drinks.
Each pupil chose either apple juice, orange juice or milk.
Below is the graph he created based on the data he collected.

Draw the bar representing the number of pupils who like to drink milk.



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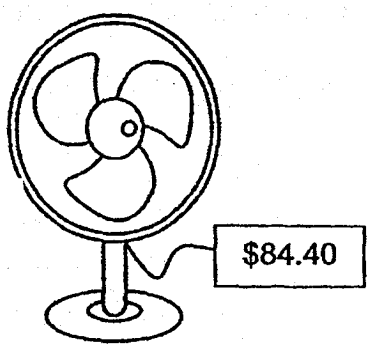
37. Juliana had some peaches at first.
She used 2313 peaches to make peach pies.
After receiving 546 peaches from her friend, Juliana had 7425 peaches.
How many peaches did she have at first?

Ans: _____

---

38. Nan Yin has $37.60 and his grandfather gave him another $17.50.
He wants to buy the fan as shown below.
How much more money does he need in order to buy it?



Ans: $_____

---

39. A bus left the first stop with the same number of children and adult.
At the second stop, half the number of adult got off.
At the third stop, 9 adults got on.
In the end, the total number of people on the bus was 27.
What was the total number of adults and children when the bus left the first stop?

Ans: _____

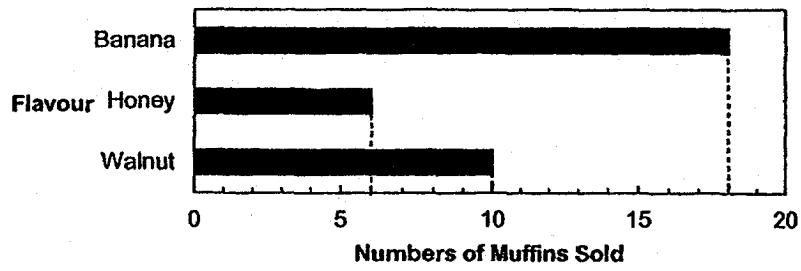
---

40. The table below shows the number of muffins Mr Tan sold for each flavour over a weekend.

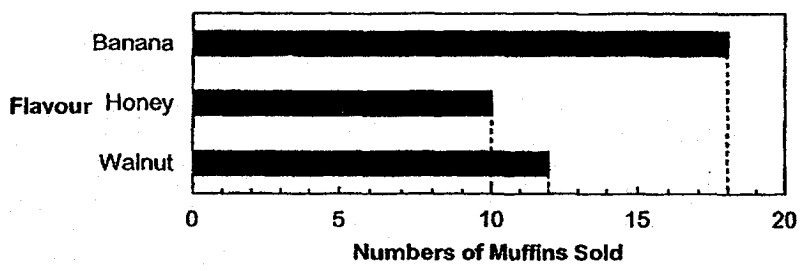
	Banana	Honey	Walnut
Number of muffins sold	35	12	20

Which graph below represents the correct number of muffins sold for each flavour?

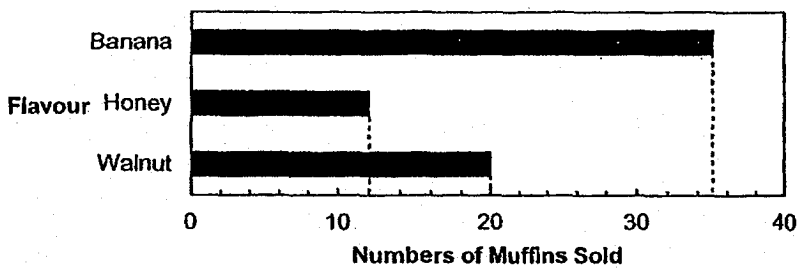
A



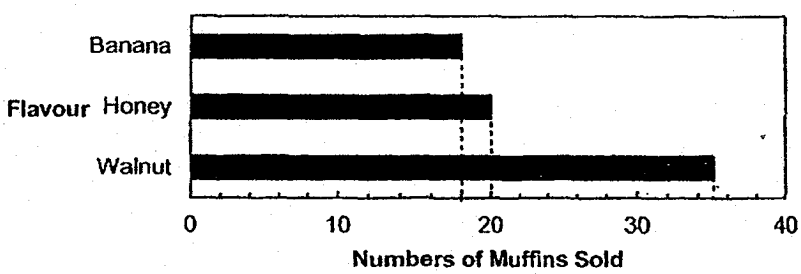
B



C



D



Ans: _____

For questions **41** to **45**, 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. (20 marks)

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41. There were 5570 people who attended a concert.
There were 2209 men.
There were 310 fewer women than men.
The rest of the people were children.

(a) How many men and women were there altogether?

(b) How many children were there?

Ans: (a) _____ [2]

(b) _____ [2]

---

42. The table below shows the starting time and duration for different movies.

Now Showing			
Adventurer The Identity War Duration: 131 minutes		My Little Boney Duration: 116 minutes	
2.00 p.m.	5.00 p.m.	10.45 a.m.	8.40 p.m.
3.15 p.m.	6.00 p.m.	2.15 p.m.	9.00 p.m.
3.50 p.m.	7.00 p.m.	4.30 p.m.	11.15 p.m.
4.30 p.m.		7.30 p.m.	

A group of friends met at a movie theatre.
The boys wanted to watch "Adventurer The Identity War".
The girls wanted to watch "My Little Boney".
Both the boys and girls decided to watch their movies at the same starting time.

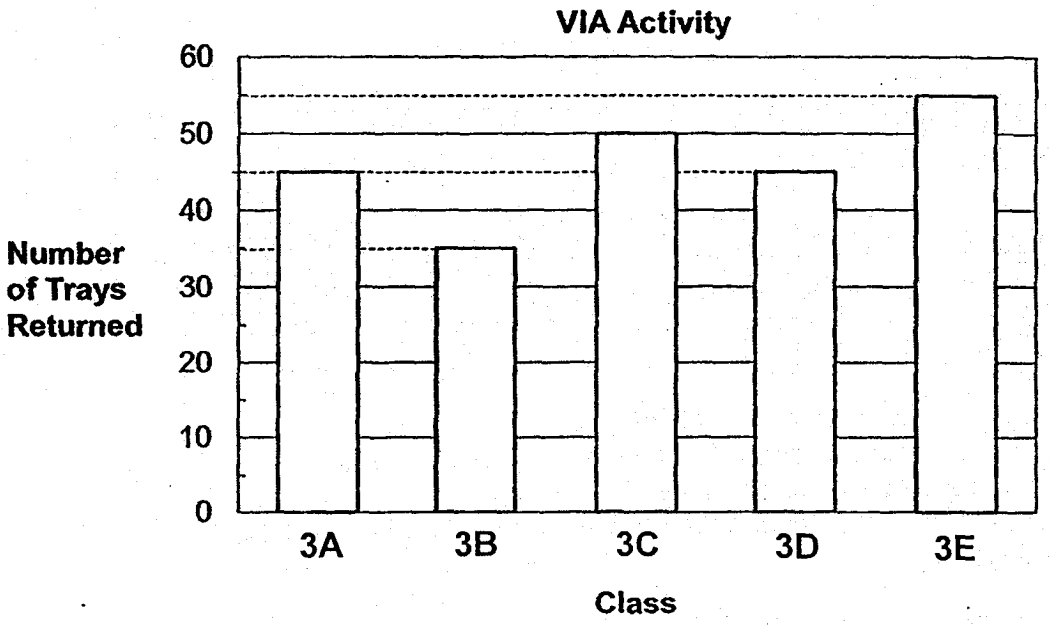
(a) What time did the girls finish their movie?

(b) How long did the girls wait for the boys to finish their movie?

Ans: (a) _____ [2]

(b) _____ [2]

43. The graph below shows the number of food trays that 5 classes of Primary 3 returned during their Values-In-Action (VIA) activity.



(a) What was the total number of trays returned by the 5 classes?

(b) Class 3F returned 20 more trays than Class 3B.
Which class returned the same number of trays as Class 3F?

Ans: (a) _____ [2]

(b) _____ [2]

44. A tailor has 3 pieces of ribbon.

(a) The total length of the piece of blue ribbon and the piece of yellow ribbon is 485 cm.
The piece of blue ribbon is 75 cm longer than the piece of yellow ribbon.
How long is the piece of yellow ribbon?

(b) The piece of red ribbon is 520 cm long.
The tailor wants to cut it into 5 shorter pieces of the same length.
How long is each shorter piece of red ribbon?

Ans: (a) _____ [2]

(b) _____ [2]

45. Rahim took part in a spelling competition.
For every correct answer, he was awarded 6 points.
For every incorrect answer, 3 points were deducted.
After 12 questions, he scored a total of 36 points.
How many questions did he answer correctly?

Ans: _____ [4]

End of Paper

EXAM PAPER 2018 (P3)

SCHOOL : NANYANG

SUBJECT : MATHEMATICS

TERM : SA2

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	1	4	2	3	2	4	1	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
3	3	2	2	3	2	4	2	2	3

·49 carry 2 marks each. Show your working clearly and write the spaces provided. For questions which require units, give the units stated. (40 marks)

ad 6429 cookies.
away 684 cookies and baked another 550 cookies.
y cookies did she have in the end?

- 684 = 5745 OR 684 − 550 = 134
+ 550 = 6295 6429 − 134 = 6295

Ans: 6295

e missing number in the box?

$\frac{\square}{\times 3} = \frac{9}{24}$

9 ÷ 3 = 3
24 ÷ 3 = 8

Ans: 3

minutes in hours and minutes.

60 min
120 min
180 min

193 − 180 = 13

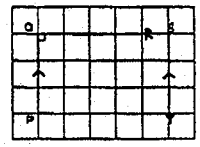
Ans: 3 h 13 min

1

24. A line PQ is drawn in the box below.

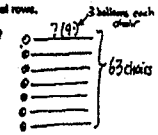
a) Draw and label line RQ that is perpendicular to line PQ.

b) Draw and label line ST which is parallel to line PQ.



25. In a hall, 63 chairs were arranged in 7 equal rows.
Each chair has 3 balloons tied to it.
How many balloons are there in each row?

63 ÷ 7 = 9
9 × 3 = 27



Ans: 27

26. Happy Shop sells 639 burgers in a day.
Super Shop sells 8 times as many burgers as Happy Shop in the day.
How many burgers are sold by the two shops altogether in the day?

639 × 8 = 5112
5112 + 639 = 5751

OR

639 × 9 = 5751

Ans: 5751

2

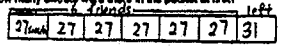
27. A florist has 923 roses.
He packs 4 roses in each bouquet.
How many roses are left unpacked?

923 ÷ 4 = 230 R 3

$$\begin{array}{r} 230\text{R}3 \\ 4\overline{)923} \\ -8\downarrow \\ 12 \\ -12\downarrow \\ 3 \\ -0 \\ 3 \end{array}$$

Ans: 3

28. A group of 6 friends shared a packet of sweets.
After each of them took 27 sweets, there were 31 sweets left.
How many sweets were there in the packet at first?



6 × 27 = 162
162 + 31 = 193

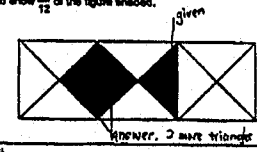
Ans: 193

3

29. $\frac{1}{12}$ of the figure below is shaded.

John wants $\frac{3}{12}$ of the figure to be shaded.

Shade to show $\frac{3}{12}$ of the figure shaded.



$= \frac{3}{12}$ shaded.

30. $1 - \frac{2}{3} - \frac{1}{12} = \square$ (×4 / ×4)

What is the missing fraction?
Leave your answer in the simplest form.

$1 - \frac{8}{12} - \frac{1}{12} = \frac{12}{12} - \frac{8}{12} - \frac{1}{12}$
$= \frac{3}{12}$
$= \frac{1}{4}$ (simplest form)

Ans: $\frac{1}{4}$

31. Joshua had $73.30 at first.
He spent $24.40 on a book and his father gave him $17.70.
How much money did he have in the end?

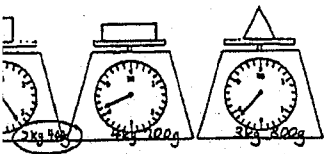
$73.30 − $24.40 = $48.90
$48.90 + $17.70 = $66.60

OR $24.40 − $17.70 = $6.70
$73.30 − $6.70 = $66.60

Ans: $ 66.60

4

ng scale was used to measure the mass of 3 objects.

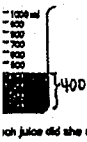


ich marking 200 g

the mass of the lightest object?
r answer in kilograms and grams.

Ans: 2 kg 400 g

contains 950 ml of juice.
oured 300 ml of juice into a cup.
identally spilled some juice while pouring.
measured the remaining amount of juice in the bottle using a
ng cup as shown below.

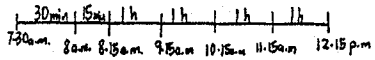


950 − 300 = 650
650 − 400 = 250

ch juice did she spill?

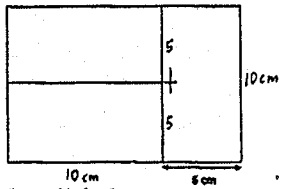
Ans: 250 ml

34. Muthu left for Kuala Lumpur from his house on Saturday.
He arrived in Kuala Lumpur at 12.15 p.m.
The journey took him 4 hours 45 minutes.
What time did he leave his house?
Give your answer in a.m. or p.m.



Ans: 7.30 a.m.

35. The following figure is made up of 3 identical rectangles.
The breadth of the rectangle is 5 cm.



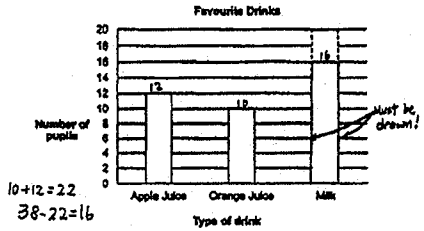
What is the area of the figure?

Length → 10 cm + 5 cm
= 15 cm
Breadth → 5 cm + 5 cm
= 10 cm
Area = L × B
= 15 cm × 10 cm
= 150 cm²

Ans: 150 cm²

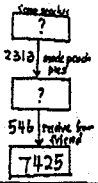
36. A teacher conducted a survey with a class of 38 pupils.
He asked everyone in the class about their favourite drinks.
Each pupil chose either apple juice, orange juice or milk.
Below is the graph he created based on the data he collected.

Draw the bar representing the number of pupils who like to drink milk.



10 + 12 = 22
38 − 22 = 16

37. Juliana had some peaches at first.
She used 2313 peaches to make peach pies.
After receiving 546 peaches from her friend, Juliana had 7425 peaches.
How many peaches did she have at first?

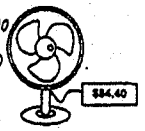


7425 − 546 = 6879
6879 + 2313 = 9192

Ans: 9192

38. Nan Yin has $37.60 and his grandfather gave him another $17.50.
He wants to buy the fan as shown below.
How much more money does he need in order to buy it?

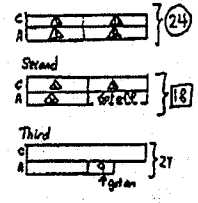
$37.60 + $17.50 = $55.10
$84.40 − $55.10 = $29.30



Ans: $ 29.30

39. A bus left the first stop with the same number of children and adult.
At the second stop, half the number of adult got off.
At the third stop, 9 adults got on.
In the end, the total number of people on the bus was 27.
What was the total number of adults and children when the bus left the first stop? At first

Work backwards
27 − 9 = 18
18 ÷ 3 = 6
6 × 4 = 24



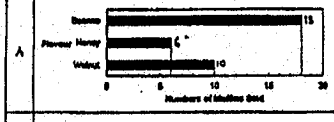
Ans: 24

The table below shows the number of muffins Mr Tan sold for each flavour over a weekend.

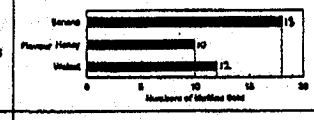
	Banana	Honey	Walnut
Number of muffins sold	35	12	20

Which graph below represents the correct number of muffins sold for each flavour?

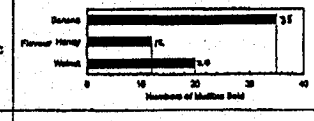
A



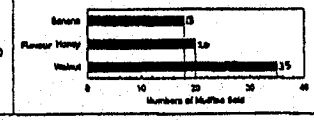
B



C



D



Ans: C

8

For questions 41 to 45, 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. (20 marks)

41. There were 5570 people who attended a concert.
There were 2209 men.
There were 310 fewer women than men.
The rest of the people were children.

(a) How many men and women were there altogether?

2209 − 310 = 1899

1899 + 2209 = 4108

(b) How many children were there?

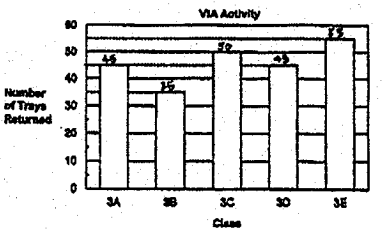
5570 − 4108 = 1462

Ans: (a) 4108 [2]

(b) 1462 [2]

10

43. The graph below shows the number of food trays that 5 classes of Primary 3 returned during their Values-in-Action (VIA) activity.



(a) What was the total number of trays returned by the 5 classes?

45 + 35 + 50 + 45 + 55 = 230

(b) Class 3F returned 20 more trays than Class 3B.
Which class returned the same number of trays as Class 3F?

35 + 20 = 55

Ans: (a) 230 [2]

(b) 3E [2]

12

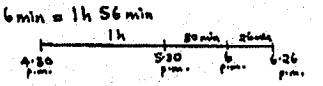
42. The table below shows the starting time and duration for different movies.

Now Showing			
Adventurer The Identity War Duration: 131 minutes		My Little Boney Duration: 116 minutes	
2.00 p.m.	6.00 p.m.	10.45 a.m.	5.40 p.m.
3.15 p.m.	8.00 p.m.	2.15 p.m.	9.00 p.m.
3.50 p.m.	7.00 p.m.	4.30 p.m.	11.15 p.m.
4.30 p.m.		7.50 p.m.	

A group of friends met at a movie theatre.
The boys wanted to watch "Adventurer The Identity War".
The girls wanted to watch "My Little Boney".
Both the boys and girls decided to watch their movies at the same starting time.

(a) What time did the girls finish their movie?

116 min = 1 h 56 min



(b) How long did the girls wait for the boys to finish their movie?

131 − 116 = 15

Ans: (a) 6.26 p.m. [1]

(b) 15 min [2]

11

A tailor has 3 pieces of ribbon.

(a) The total length of the piece of blue ribbon and the piece of yellow ribbon is 485 cm.
The piece of blue ribbon is 75 cm longer than the piece of yellow ribbon.
How long is the piece of yellow ribbon?

485 − 75 = 410

410 ÷ 2 = 205

(b) The piece of red ribbon is 520 cm long.
The tailor wants to cut it into 5 shorter pieces of the same length.
How long is each shorter piece of red ribbon?

520 ÷ 5 = 104

Ans: (a) 205 cm [2]

(b) 104 cm [2]

45. Rahim took part in a spelling competition.
For every correct answer, he was awarded 6 points.
For every incorrect answer, 3 points were deducted.
After 12 questions, he scored a total of 36 points.
How many questions did he answer correctly?

Method 1

Correct Answers	Wrong Answers	Total Questions	Total Scores
6	6	6+6 = 12	6×6 = 36 6×3 = 18 36−18 = 18
8	4	8+4 = 12	8×6 = 48 4×3 = 12 48−12 = 36

Method 2

Suppose all wrong

3×12 = 36
36+36 = 72
6+3 = 9
72 ÷ 9 = 8 (Correct answers)

Method 3

Suppose all correct
6×12 = 72
72−36 = 36
6+3 = 9
36÷9 = 4
12−4 = 8

Ans: 8 [4]

End of Paper