NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2018

PRIMARY 5

MATHEMATICS
PAPER 1
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour

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.
5. The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 5 ( )

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 Express 425 m in kilometres.

(1) 0.425 km

(2) 4.025 km

(3) 4.25 km

(4) 42.5 km

2 What does the digit 7 in 98.76 stand for?

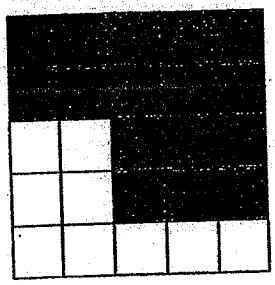
(1) 7 ones

(2) 7 tens

(3) 7 tenths

(4) 7 hundredths

3 The figure below is made up of 25 identical squares.



What percentage of the figure is shaded?

(1) 16%

(2) 32%

(3) 36%

(4) 64%

4 Mr Ong had $50. He spent 30% of his money on his dinner. How much money did he spend on his dinner?

(1) $35

(2) $30

(3) $20

(4) $15

5 There were 96 children and 72 of them were boys.
What was the ratio of the number of girls to the number of boys?

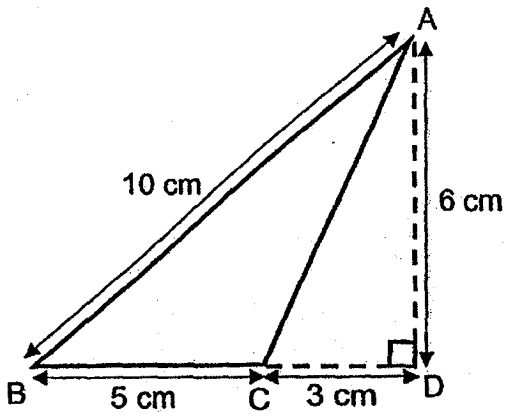
(1) 1 : 3

(2) 1 : 4

(3) 3 : 1

(4) 4 : 3

6 In the figure below, BCD is a straight line. Find the area of triangle ABC.



(1) 15 cm^2

(2) 24 cm^2

(3) 25 cm^2

(4) 30 cm^2

7 A machine prints 60 worksheets in 1 minute. At this rate, how many worksheets does it print in 6 minutes?

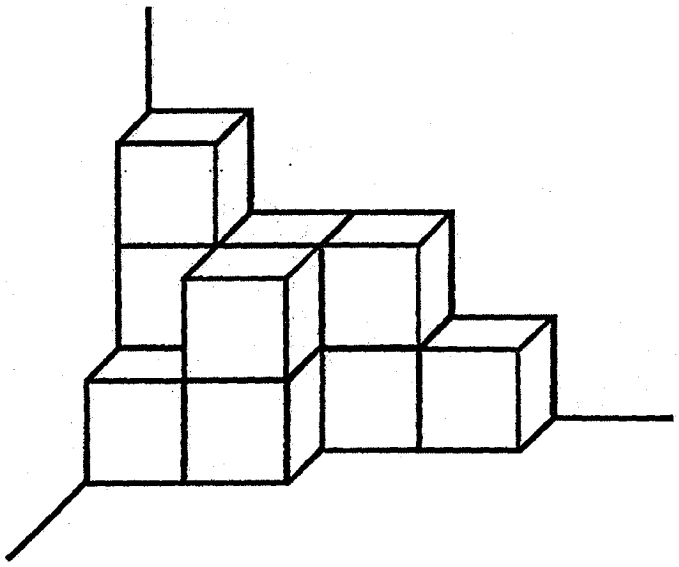
(1) 240

(2) 360

(3) 420

(4) 480

8 The figure below is made up of 1-cm cubes. What is the volume of the figure?



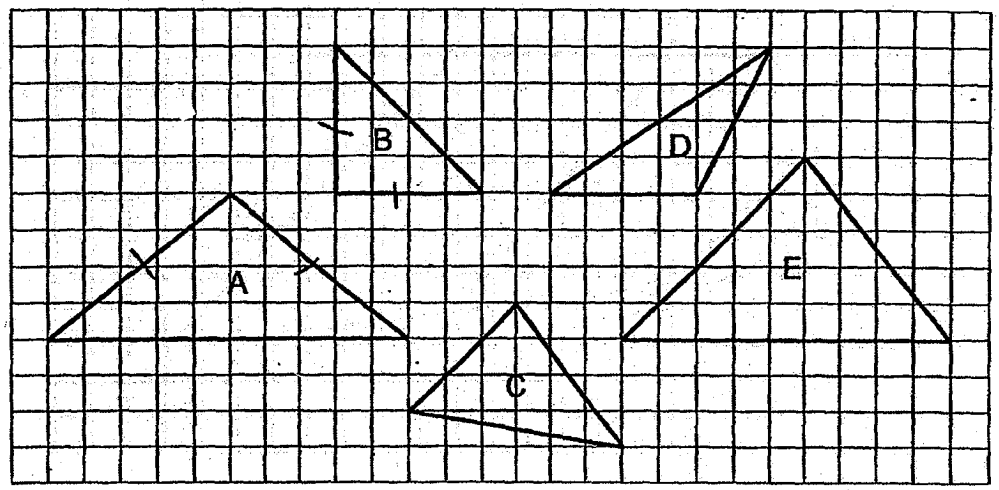
(1) 9 cm^3

(2) 10 cm^3

(3) 11 cm^3

(4) 12 cm^3

9 Triangles A, B, C, D and E are drawn on the square grid below.



How many of them are isosceles triangles?

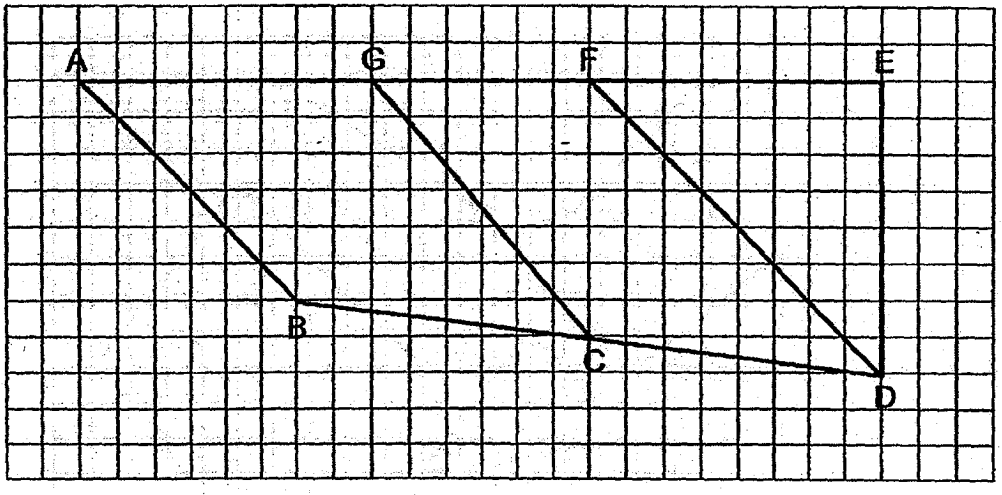
(1) 5

(2) 2

(3) 3

(4) 4

10 Which two lines in the figure below are parallel to each other?



(1) AE and ED

(2) GF and FD

(3) AB and GC

(4) AB and FD

11 What is the missing number in the box below?

$$5700 = 570\,000 \div \square$$

(1) 10

(2) 100

(3) 1000

(4) 10 000

12 Jun Rong had some marbles. After he gave $\frac{2}{9}$ of his marbles to Miss Wong, he had 70 marbles left. How many marbles did he have at first?

(1) 10

(2) 20

(3) 90

(4) 110

13 Arrange the following fractions from the smallest to the largest.

$$\frac{3}{4} \ , \ \frac{5}{6} \ , \ \frac{2}{9} \ , \ \frac{1}{3}$$

	smallest			largest
(1)	$\frac{1}{3}$,	$\frac{2}{9}$,	$\frac{3}{4}$,	$\frac{5}{6}$
(2)	$\frac{1}{3}$,	$\frac{3}{4}$,	$\frac{5}{6}$,	$\frac{2}{9}$
(3)	$\frac{2}{9}$,	$\frac{1}{3}$,	$\frac{5}{6}$,	$\frac{3}{4}$
(4)	$\frac{2}{9}$,	$\frac{1}{3}$,	$\frac{3}{4}$,	$\frac{5}{6}$

14 Mr Tan sold 3000 cupcakes. Each cupcake was sold for $0.90. The money collected from selling all the cupcakes was given to his 10 assistants. Each assistant received an equal amount of money. How much did each assistant receive?

(1) $2.70

(2) $27

(3) $270

(4) $2700

15 Fatimah spent $88 on some Chinese storybooks. She spent $16 on an English storybook. The average cost of all the storybooks was $4. How many storybooks did she buy in total?

(1) 26

(2) 22

(3) 18

(4) 4

NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2018

PRIMARY 5

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour

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.
5. The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 5 ( )

Booklet B	/ 25

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 **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)

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16 Find the value of $60 \times 2 - 80 \div (26 + 14)$.

Ans: _____

---

17 Find the value of $5 \div 8$.
Express your answer as a decimal.

Ans: _____

---

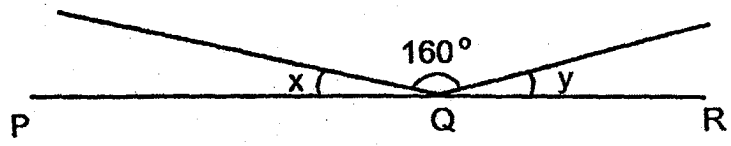
18 Find the missing number in the box below.

$$2 : 6 = 18 : \square$$

Ans: _____

---

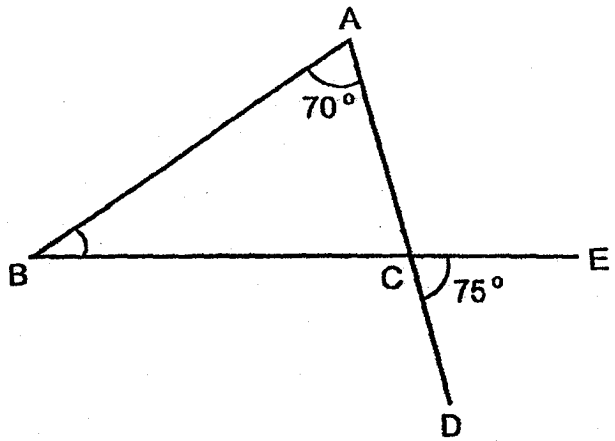
19 In the figure below, PQR is a straight line. $\angle x$ is equal to $\angle y$. Find $\angle y$.



Ans: _____ °

---

20 In the figure below, ACD and BCE are straight lines. Find $\angle ABC$.



Ans: _____ °

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

---

21 There were 312 098 visitors to a zoo last year. Round this number to the nearest hundred.

Ans: _____

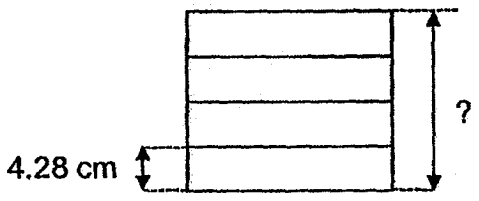
---

22 Mrs Tay had $\frac{5}{6}$ kg of flour. She used $\frac{1}{2}$ of it to bake a cake. How many kilograms of flour did she use to bake the cake? Express your answer as a fraction in its simplest form.

Ans: _____ kg

---

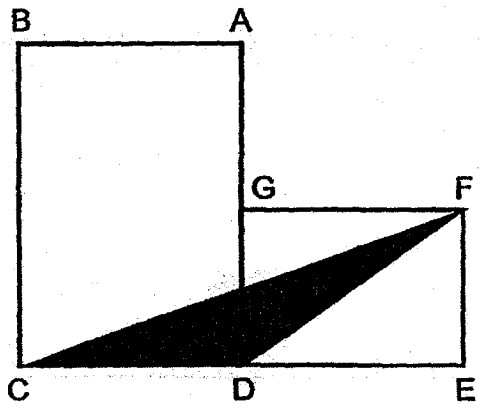
23 The thickness of a Science textbook is 4.28 cm. What is the total thickness of 4 such textbooks that are stacked on top of one another?



Ans: _____ cm

---

24 ABCD and DEFG are rectangles. The area of triangle CDF is 24 cm^2 and AG = GD. Find the area of rectangle ABCD.



Ans: _____ cm^2

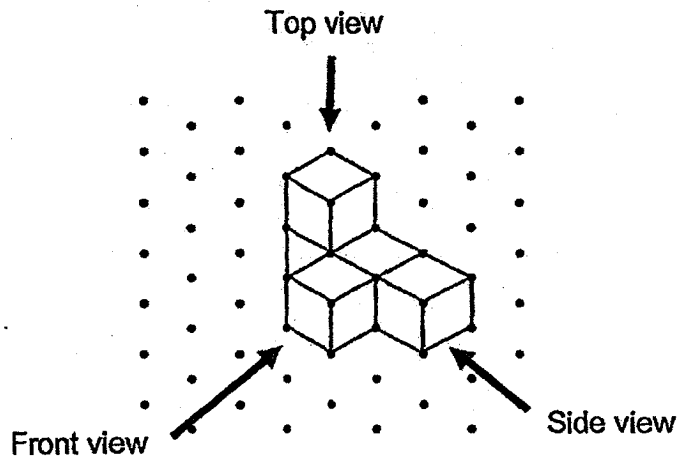
---

25 Find the volume of a 6-cm cube.

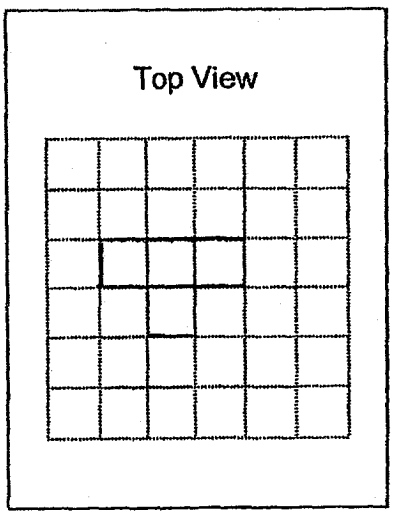
Ans: _____ cm^3

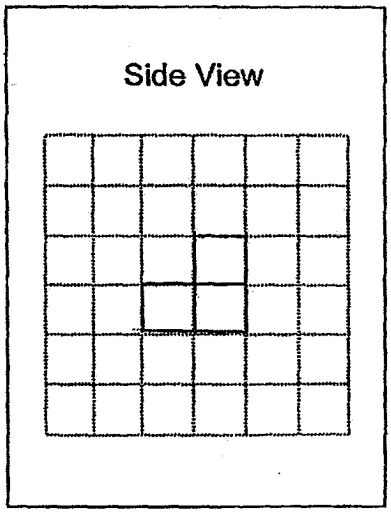
---

26 The solid below is built using identical cubes.

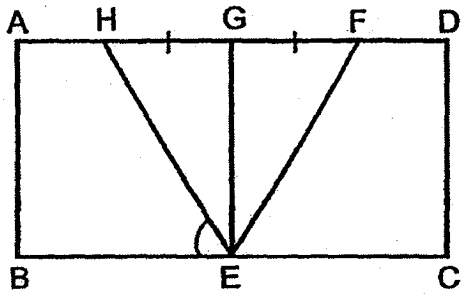


Draw the top view and side view of the solid on the square grids provided below.





27 In the figure below, rectangle ABCD is made up of 2 identical squares ABEG and ECDG. EFH is an equilateral triangle and HG = GF. Find ∠BEH.



Ans: _____ °

---

28 Find the average of 1250 m, 855 m, 750 m and 4065 m.

Ans: _____ m

---

29 The first 14 numbers of a repeated number pattern are given below. What is the 427^{th} number?

Ans: _____

---

30 Use each of the digits below once to form a decimal number that gives 58 when rounded to the nearest whole number.

1	5	.	8	9

Ans: _____

End of Paper

NANYANG PRIMARY SCHOOL

SECOND SEMESTRAL EXAMINATION 2018

PRIMARY 5

MATHEMATICS PAPER 2

Duration: 1 hour 30 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.
5. The use of an approved calculator is expected, where appropriate.

Name: _____ ( )

Class: Primary 5 ( )

Parent's Signature: _____

Booklet A	**/ 20**
Booklet B	**/ 25**
Paper 2	**/ 55**
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 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

---

1 Mr Wong had $8\frac{1}{5}$ kg of potatoes. He had $2\frac{11}{20}$ kg of potatoes more than Mrs Deva. How many kilograms of potatoes did they have altogether? Express your answer as a mixed number in its simplest form.

Ans: _____ kg

---

2 A jug contains $1\frac{1}{3}$ ℓ of orange juice. How many litres of orange juice are there in 5 such jugs altogether? Express your answer as a mixed number in its simplest form.

Ans: _____ ℓ

---

3 The table below shows the mass of newspapers collected by John, Siti and Julie but not Rose. The average mass of newspapers collected by these 4 pupils was 43 kg. What was the mass of newspapers collected by Rose?

Pupil	John	Siti	Rose	Julie
Mass of newspapers collected	37 kg	49 kg	?	50 kg

Ans: _____ kg

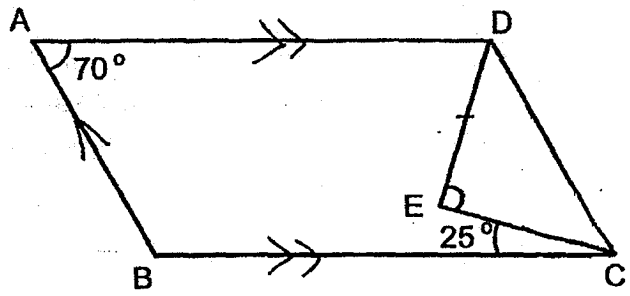
---

4 Mr Ng deposits $15 000 in Saver's Bank for one year. The bank gives an annual interest rate of 1.2%. How much money will he have in the bank at the end of one year?

Ans: $_____

---

5 In the figure below, ABCD is a parallelogram and CDE is an isosceles triangle. DE = EC, $\angle DAB = 70^\circ$ and $\angle BCE = 25^\circ$. Find $\angle CED$.



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 Kym saved a fixed amount of money every day. Ansel saved 80 cents more than Kym every day. They started saving on the same day. When Ansel saved \$104.50, Kym saved \$90.10. How many days did Kym take to save \$90.10?

Ans: _____ [3]

---

7 There were 620 wrist bands. 155 of them were red, 372 of them were blue and the rest were black. What percentage of the wrist bands were black?

Ans: _____ [3]

---

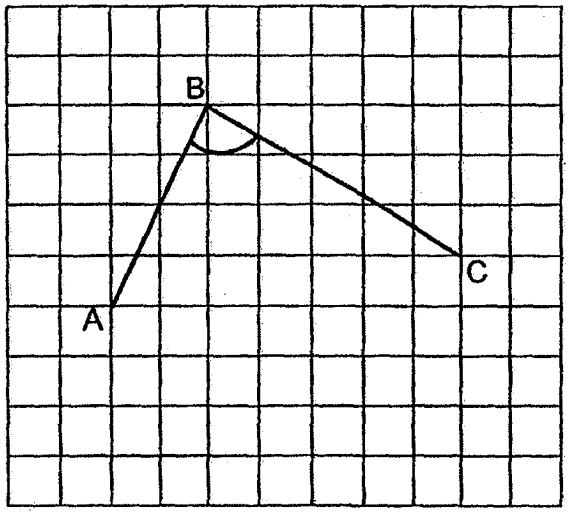
8 The ratio of the number of Singapore stamps to the number of Thailand stamps to the number of Malaysia stamps is 9 : 6 : 4. There are 120 fewer Malaysia stamps than Singapore stamps. How many stamps are there altogether?

Ans: _____ [3]

---

9 In the square grid below, AB and BC are straight lines.

(a) Measure and write down the size of ∠ABC.
(b) AB and BC form two sides of a parallelogram ABCD. Complete the drawing of parallelogram ABCD.



[2]

Ans: (a) _____ [1]

---

10 The average mass of a group of girls was 48 kg. After one boy who weighed 66 kg joined the group, the average mass of the group became 51 kg. Find number of girls in the group.

Ans: _____ [3]

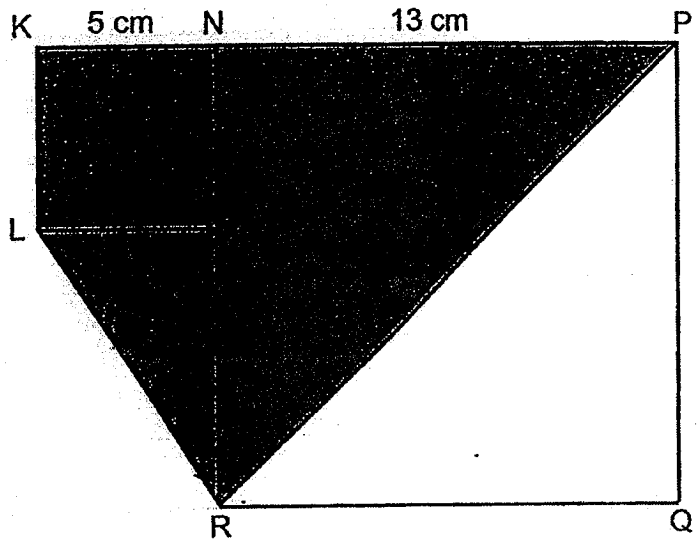
11 A shopkeeper had 49 boxes of staplers. Each box contained the same number of staplers. He took out all the staplers from 7 boxes and packed them into the rest of the boxes. Each of the rest of the boxes then had 12 more staplers than before. How many staplers did the shopkeeper have?

Ans: _____ [4]

12 There were some people in a hall. $\frac{2}{7}$ of them were men. There were 50 fewer men than women. There were 325 children. How many more children than women were there in the hall?

Ans: _____ [4]

13 In the figure below, KLMN and NRQP are squares. The length of KN is 5 cm and the length of NP is 13 cm. Find the total area of the shaded parts.



Ans: _____ [4]

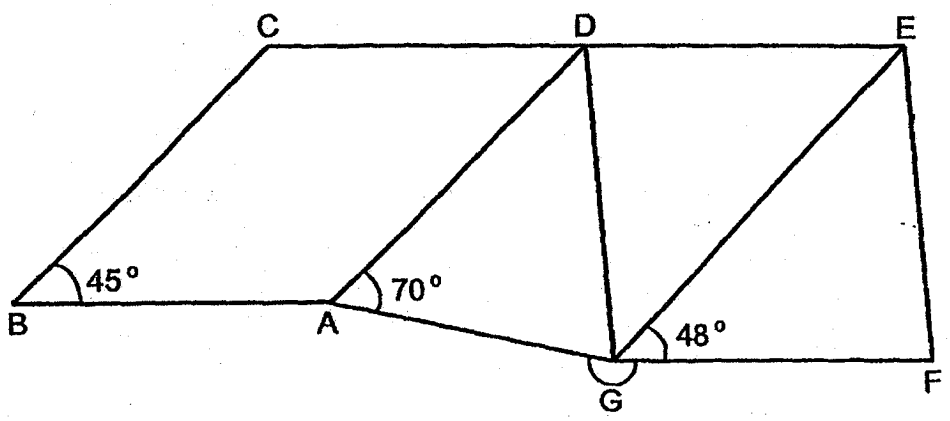
14 A tank was $\frac{1}{2}$-filled with water at first. After 2 ℓ of water were poured into the tank, it became $\frac{2}{3}$-filled with water. How much more water would be needed to fill the tank to its brim?

Ans: _____ [4]

15 In the figure, ABCD is a parallelogram and DEFG is a rhombus. CDE is a straight line. $\angle ABC = 45^\circ$, $\angle GAD = 70^\circ$ and $\angle FGE = 48^\circ$.

(a) Find $\angle ADG$.

(b) Find $\angle AGF$.



Ans: (a) _____ [2]

(b) _____ [2]

16 John uses identical circles and identical squares to form figures that follow a pattern as shown below.

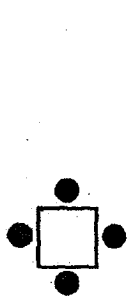


Figure 1

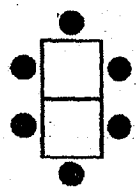


Figure 2

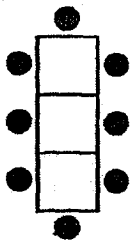


Figure 3

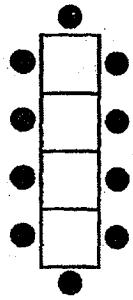


Figure 4

(a) The table shows the number of circles and squares for the first four figures. Complete the table for Figure 5.

Figure Number	1	2	3	4	5
Number of circles	4	6	8	10	
Number of squares	1	2	3	4	
Total number of circles and squares	5	8	11	14	

[1]

(b) A figure in the pattern has a total of 35 circles and squares. What is the Figure Number?

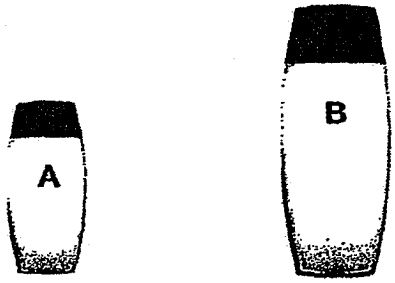
(c) Another figure in the pattern has 52 more circles than squares. What is the total number of circles and squares in this figure?

Ans: (b) Figure_____ [2]

(c) _____ [2]

17 Last Sunday, Mrs Ho drove to a supermarket.

(a) She went there to buy hair shampoo. The hair shampoo was sold in two different sizes. Bottle A contained 300 millilitres of hair shampoo and was sold for $12. Bottle B contained 700 millilitres of hair shampoo and was sold for $21.
Which bottle was cheaper per millilitre, A or B?
How much cheaper was it per millilitre?



(b) Mrs Ho's car travelled 25 km on 1 litre of petrol. She drove 4.8 km from the supermarket to her house. How many litres of petrol were used for her car to travel 4.8 km?

Ans: (a) Bottle_____ [1]

Amount:_____ [2]

(b) _____ [2]

End of Paper

SCHOOL : NANYANG PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA2

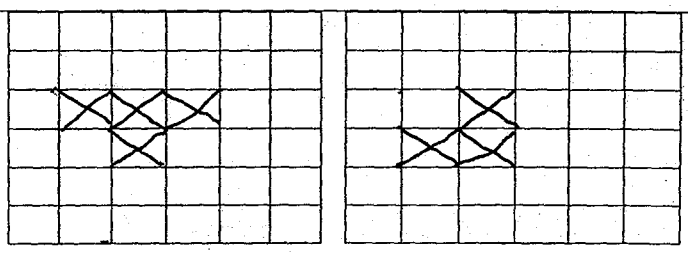
PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
2	3	4	3	1

PAPER 1 BOOKLET B

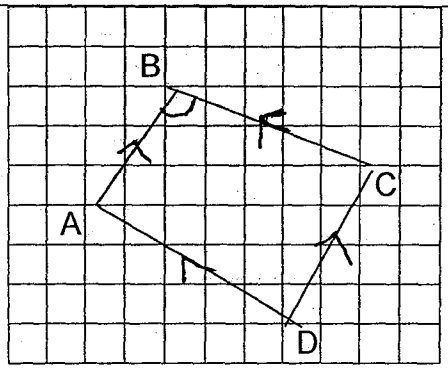
Q16)	26 + 14 = 40 80 ÷ 40 = 2 60 x 2 = 120 120 – 2 = 118
Q17)	0.625
Q18)	18÷2 = 9 9 x 6 = 54
Q19)	180° – 160° = 20° 20° ÷2 = 10°
Q20)	180° – 145° = 35
Q21)	312098 ≈ 312100
Q22)	1kg = 1000g 5/6 x 2 = 10/12 10/12 ÷2 = 5/12 kg
Q23)	4.28 x 4 = 17.12 cm
Q24)	24 x 2 = 48 48 x 2 = 96 cm2
Q25)	6 x 6 x 6 = 216 cm3
Q26)	



Q27)	60 ÷ 2 = 30 90 – 30 = 60°
Q28)	1250 + 855 + 750 + 4065 = 6920 6920 ÷ 4 = 1730 m
Q29)	6
Q30)	58.19

PAPER 2

Q1)	$8\frac{1}{5} - 2\frac{11}{20} = 8\frac{4}{20} - 2\frac{11}{20}$ $= 7\frac{24}{20} - 2\frac{11}{20} = 5\frac{13}{20}$ $5\frac{13}{20} + 8\frac{1}{5} = 5\frac{13}{20} + 8\frac{4}{20} = 13\frac{17}{20}$ kg
Q2)	$1\frac{1}{3} \times 5 = 5\frac{5}{3} = 6\frac{2}{3}$
Q3)	43 x 4 = 172 37 + 49 = 86 86 + 50 = 136 172 – 136 = 36 kg
Q4)	\$15000 ÷ 100 = \$150 150 x 1.2 = \$180 \$15000 + \$180 = \$15180
Q5)	70 – 25 = 45 180 – 45 – 45 = 90°
Q6)	\$104.50 – \$90.10 = \$14.40 \$14.40 ÷ \$0.80 = 18
Q7)	620 ÷ 100 = 6.2 620 – 155 – 372 = 93 93 ÷ 6.2 = 15%
Q8)	9 – 4 – 5u 120 ÷ 5 = 24 9 + 6 = 15 15 + 4 = 19 24 x 19 = 456
Q9)	



ANS: 86

Q10) 51 – 48 = 3
66 ÷ 3 = 22
66 – 48 = 18
22 – 18 = 4
4 + 3 = 7
7 + 1 = 8
8 – 3 = 5

Q11) 49 – 7 = 42
42 x 12 = 504
504 ÷ 7 = 72
72 x 49 = 3528

Q12) 325 + 50 = 375
375 ÷ 3 = 125
125 x 2 = 250
250 + 50 = 300
325 – 300 = 25

Q13) 13 x 13 x ½ = 84.5 (NPR)
5 x 5 – 25 (KNLM)
13 – 5 = 8
8 x 5 x ½ = 20 (LMR)
20 + 25 = 45
45 + 84.5 = 129.5cm2

Q14) 4/6 – 3/6 = 1/6
1/6 →2
6/6 →2 x 6 = 12
4/6 →2 x 4 = 8
1 – 4/6 = 2/6
2/6 →2 x 2 = 4L

Q15) a)180 – 45 = 135
180 – 48 – 48 = 84
180 – 84 – 45 = 51°
b) 180 – 70 – 51 = 59

	360 – 59 – 48 – 48 = 205°
Q16)	a)12 , 5 ,17 b)35 – 2 = 33 33 ÷ 3 = 11 c)52 – 2 = 50 50 + (50x2) + 2 = 152
Q17)	a)Bottle B Amount : $0.01 b)0.192L