TAO NAN SCHOOL 道南学校

SINCERITY & PERSEVERANCE

2020 PRIMARY 5 SEMESTRAL ASSESSMENT 2

Name: _____ ( ) Date: 29 October 2020

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

Parent's Signature: _____

MATHEMATICS

PAPER 1

(BOOKLET A)

/ 20

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
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 NOT allowed to use a calculator.

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 correct oval on the Optical Answer Sheet. (20 marks)

1. In 3 572 468, the digit 5 stands for _____.

   (1) 5 000
   (2) 50 000
   (3) 500 000
   (4) 5 000 000

2. Round 67.445 to 2 decimal places.

   (1) 67.00
   (2) 67.40
   (3) 67.44
   (4) 67.45

3. Which of the following is equal to $\frac{5}{8} \times \frac{13}{9}$?

   (1) $\frac{5 \times 13}{8 \times 9}$

   (2) $\frac{8 \times 13}{5 \times 9}$

   (3) $\frac{5 \times 9}{8 \times 13}$

   (4) $\frac{8 \times 9}{5 \times 13}$

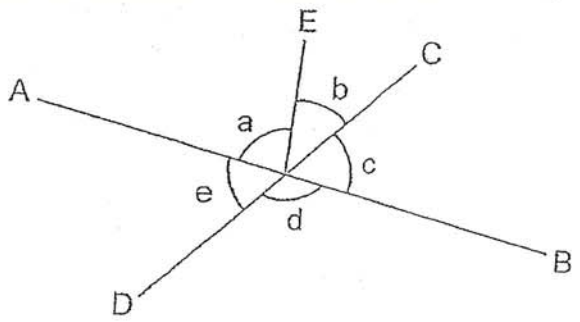
4. Which of the following is the same as 20 km 81 m?

(1) 2 081 m
(2) 2 810 m
(3) 20 081 m
(4) 20 810 m

5. After spending $360 from his savings on a bicycle, Bala still has 60% of his savings left. How much savings did Bala have before buying the bicycle?

(1) $144
(2) $216
(3) $540
(4) $900

6. Study the following figure which is not drawn to scale.
AB and DC are straight lines.



Which of the following is correct?

(1) $\angle e + \angle c = 180°$
(2) $\angle a + \angle b = \angle d$
(3) $\angle e = \angle b + \angle c$
(4) $\angle b + \angle c + \angle d = 180°$

7. A number rounded to the nearest 10 is 4 800. What is the number?

(1) 4 794
(2) 4 798
(3) 4 806
(4) 4 811

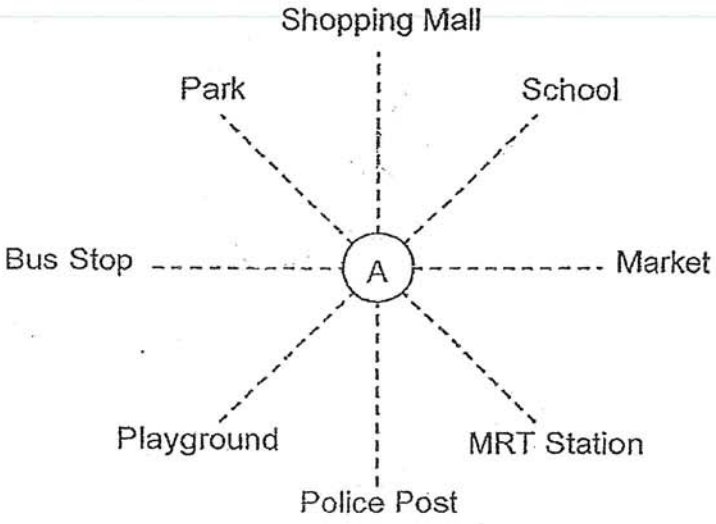
8. There are 85 cars, vans and motorcycles in a carpark. 25 of the vehicles are cars and 15 of them are vans . What is the ratio of the number of motorcycles to the number of cars?

(1) 3 : 1
(2) 3 : 5
(3) 5 : 9
(4) 9 : 5

9. Express 7.8% as a decimal.

(1) 0.0078
(2) 0.078
(3) 0.78
(4) 7.8

10. Tom is standing at the point marked 'A' in the figure below. He has made a 225° clockwise turn and is now facing the School. Where was he facing at first?



(1) Bus Stop
(2) Police Post
(3) MRT Station
(4) Park

11. Caili has 60% as much money as Devi. After Devi gives Caili $33, both of them have the same amount of money. How much does Devi have at first?

(1) $66
(2) $99
(3) $132
(4) $165

12. A tank was $\frac{1}{4}$ full. After 20 litres of water was added, it became $\frac{1}{3}$ full.

What is the capacity of the tank?

(1) 60ℓ
(2) 80ℓ
(3) 140ℓ
(4) 240ℓ

13. Millie has 18 stalks of roses. 12 of them are red, 4 are pink and the rest are yellow. What fraction of the roses are yellow ?

(1) $\frac{1}{9}$
(2) $\frac{2}{9}$
(3) $\frac{6}{9}$
(4) $\frac{8}{9}$

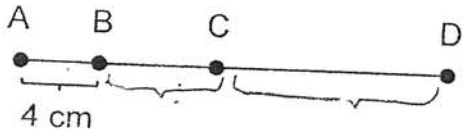
14. A piece of wire 60 cm was cut into two pieces. The longer piece was bent to form an equilateral triangle of side 12.8 cm. What is the length of the shorter piece?

(1) 21.6 cm
(2) 30.0 cm
(3) 38.4 cm
(4) 47.2 cm

15. The points A, B, C and D are on a straight line not drawn to scale. Given the ratio of the lengths,

AB to BC is 2 : 3
BC to CD is 1 : 2

What is the ratio of the length of AC to the length of AD?



(1) 3 : 5

(2) 5 : 6

(3) 5 : 11

(4) 11 : 5

- END OF BOOKLET A -

2020 PRIMARY 5 SEMESTRAL ASSESSMENT 2

Name: _____ ( ) Date: 29 October 2020

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

Parent's Signature: _____

MATHEMATICS

PAPER 1

(BOOKLET B)

25

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
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 NOT allowed to use a calculator.

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. Write 2 704 050 in words.

Ans: _____

_____

17. Express $80\frac{1}{125}$ as a decimal.

Ans: _____

18. Arrange the following numbers from the greatest to the smallest number.

23 045 , 23 503 , 23 405 , 24 035

Ans: _____

19. Add 123, 3.987 and 0.1

Ans: _____

20. Express $\frac{23}{25}$ as a percentage.

Ans: _____ %

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. $32 + (65 - 17) \times 8 \div 4 =$ _____

Ans: _____

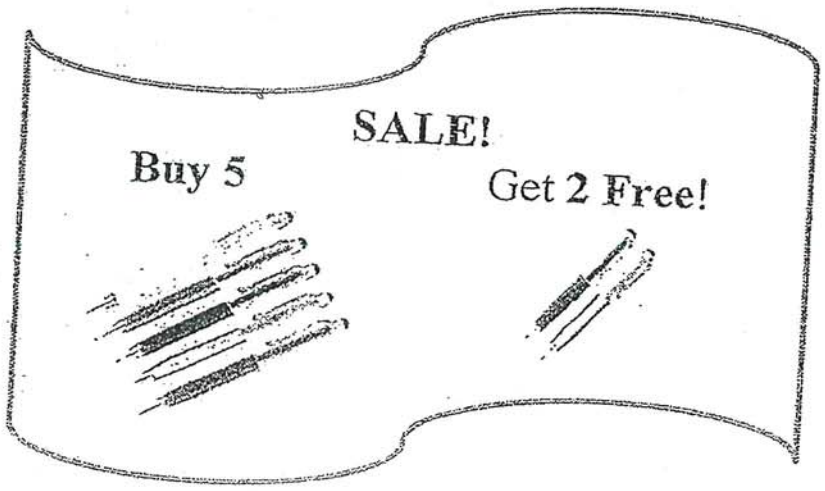
22. Lynn made 4 ℓ of fruit juice. She served some of the fruit juice to 5 friends and was left with 1.75 ℓ of fruit juice. How much fruit juice did each friend receive?

Ans: _____ mℓ

23. The average score of 6 games is 120 points.
The average score of the first 5 games is 100 points.
What is the score for the 6th game?

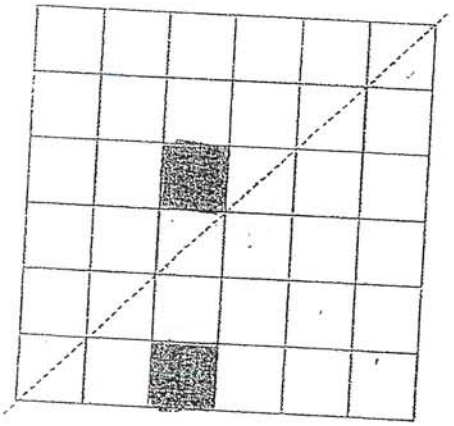
Ans: _____

24. At a sale, Mr Tan paid for 30 pens. How many free pens did Mr Tan receive?



Ans: _____

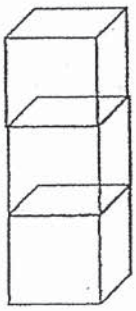
25. In the figure below, shade 2 squares such that the figure is symmetrical along the line of symmetry.



26. The lowest common multiple of two numbers is 18.
The smaller number has 4 factors.
The bigger number has 3 factors.
What are the two numbers?

Ans: _____ and _____

27. The solid is made up of 3 identical cubes. The volume of the solid is 192 cm^3.
What is the length of a cube?

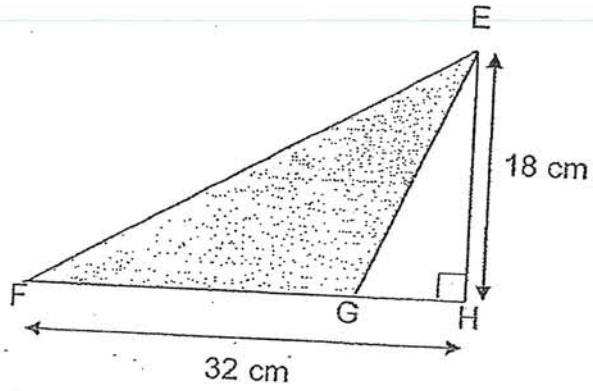


Ans: _____ cm

28. Tom bought 1 ℓ of milk. He drank $\frac{3}{8}$ ℓ of milk in the morning and $\frac{1}{4}$ ℓ of milk in the afternoon. How much milk was left?

Ans: _____ ℓ

29. Find the area of the shaded triangle EFG given that FG is three times of GH.



Ans: _____ cm^2

30. A fruit seller has some red and green apples in the ratio of 4 : 3.
There are 80 red apples. How many apples does the fruit seller have in total?

Ans: _____

- END OF BOOKLET B -

2020 PRIMARY 5 SEMESTRAL ASSESSMENT 2

Name: _____ ( ) Date: 29 October 2020

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

Parent's Signature: _____

MATHEMATICS

PAPER 2

/ 55

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
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.
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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. The following table shows the number of storybooks Joshua read over 6 months.

January	February	March	April	May	June
3	2	2	0	0	5

What is the average number of books that Joshua reads each month?

Ans: _____

2. Find the values of ☆ and ▩.

☆ : 6 : 8 = 30 : ▩ : 20

Ans: ☆ = _____

▩ = _____

3. Ryan ate $\frac{1}{4}$ of a pizza in the morning.

He then ate $\frac{2}{3}$ of the remainder in the afternoon.

What fraction of the pizza was left? *Give your answer in the simplest form.*

Ans: _____

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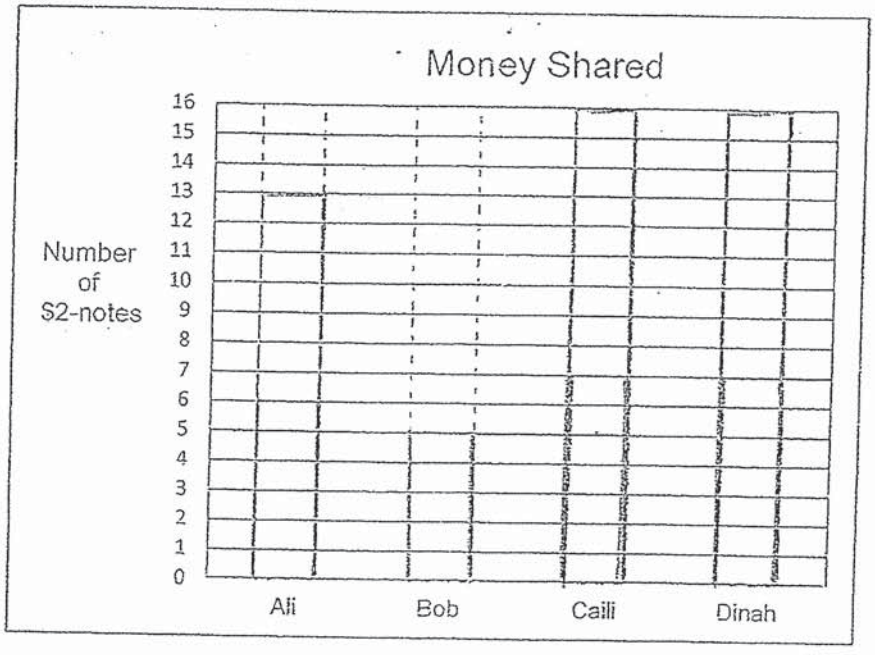
4. Using the following information, draw the bar graph to show how much money each person receives.

Ali, Bob, Caili and Dinah shared $50 in $2-notes. Bob receives $10.

Caili and Dinah both receive the same amount of money.

Ali receives less than Caili or Dinah but more than Bob.



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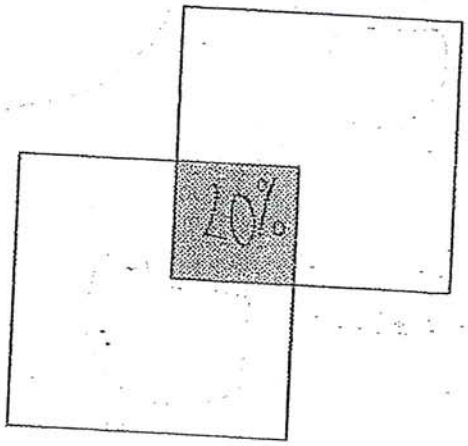
5. The figure below shows 2 identical squares overlapping each other. The shaded area is 20% of each square. Find the ratio of the shaded area of the figure to the unshaded area of the figure.



Ans: _____

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.

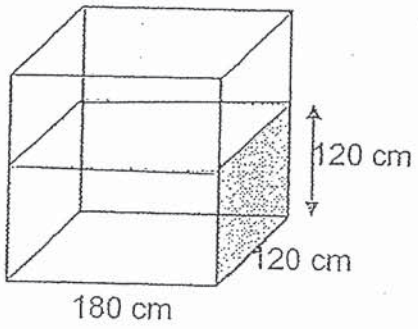
(45 marks)

6. Mr Lim had to pay 7% GST for the washing machine.
How much did Mr Lim pay for the washing machine inclusive of GST?

Original Price is $4 760
*(**not** inclusive of GST)*

Ans: _____ [3]

7. A rectangular tank is 60% filled with water. How much more water is needed to fill the tank completely? *Give your answer in litres.*



Ans: _____ [3]

8. In the given space below,

   a) **Draw** a line CD parallel to AB. [1]

   b) **Draw** a line BE perpendicular to AB where E is between C and D. [1]

   c) Measure the length of BE.

Ans: c) Length of BE = _____ [1]

9. A businessman bought 25 mobile phones and laptops for his office.
   A mobile phone costs $800 and a laptop costs $1100.
   He paid a total of $24 200.

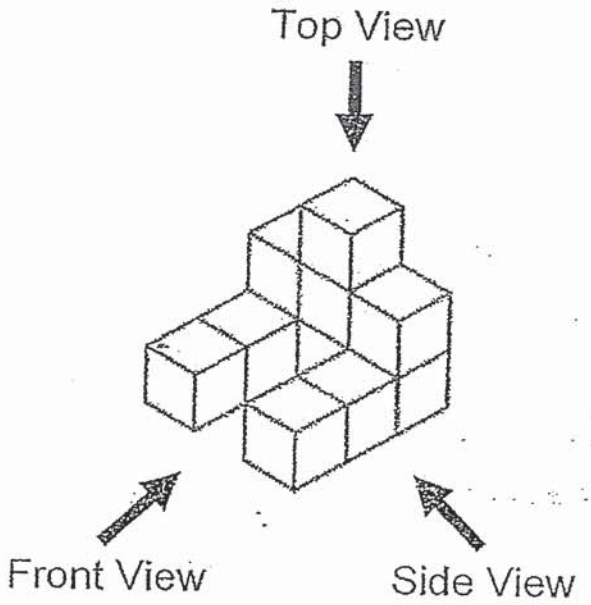
   a) How many mobile phones were bought?

   b) How many laptops were bought?

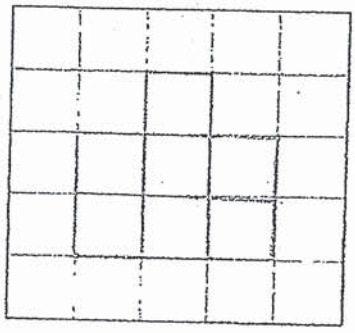
Ans: a) _____ [3]

b) _____ [1]

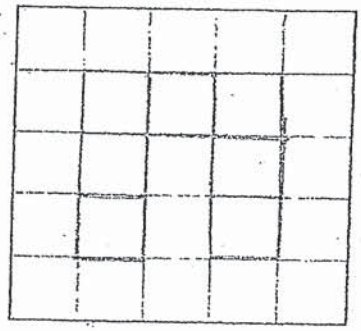
10. The solid below is made up of unit cubes.



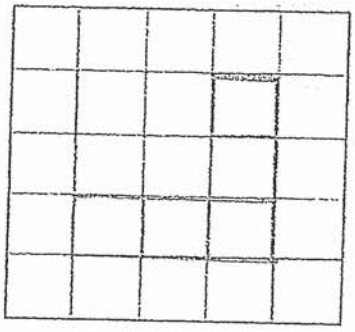
Using the square grids below, draw the front view, top view and side view of the solid. [3]



Front View

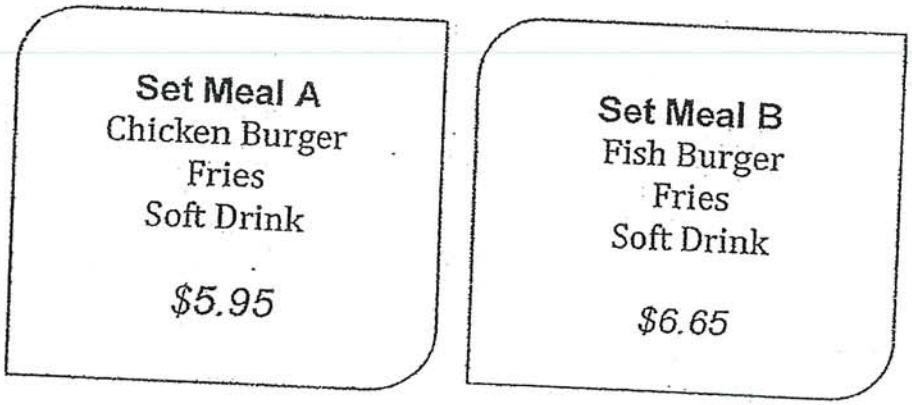


Side View



Top View

11.



Jiaming has $40 and wants to buy an equal number of set meals A and B.

(a) What is the *greatest* number of each set meal that Jiaming can buy?

Ans: (a) _____ [2]

(b)

The following statement is either ***true***, ***false*** or ***not possible to tell*** from the data given. Put a **tick** (✓) in the correct column. [1]

	True	*False*	*Not Possible to Tell*
When Jiaming buys only one type of set meal with the $40, he can buy more Set A than Set B meals.			

12. A class uses 380 mℓ of hand sanitiser in a school day.
Hand sanitiser is sold in bottles of 500 mℓ and a bottle costs $4.90.

a) How much hand sanitiser will be used by the class after 35 school days?
Give your answer in litres.

b) How many bottles of hand sanitiser will be needed for the 35 school days?

c) What is the total cost for the number of hand sanitiser bottles needed for 35 school days?

Ans: a) _____ [1]

b) _____ [2]

c) _____ [1]

13. A supermarket has 358 oranges and kiwis altogether. After selling $\frac{2}{7}$ of the oranges and 35 kiwis, the ratio of the number of oranges to the number of kiwis left is 2 : 1 . Find the total number of oranges and kiwis left.

Ans: _____ [4]

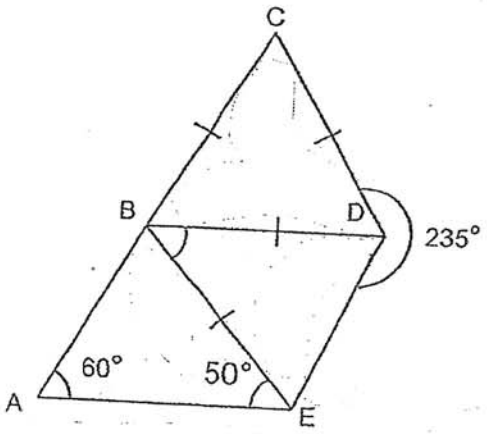
14. The total mass of 12 similar books and 5 similar magazines is 4 071 g.
Each book weighs 165 g heavier than each magazine.
Find the mass of one book. *Give your answer in grams.*

Ans: _____ [4]

15. The figure below, not drawn to scale, is made up of 3 triangles.

a) Find ∠BDE.

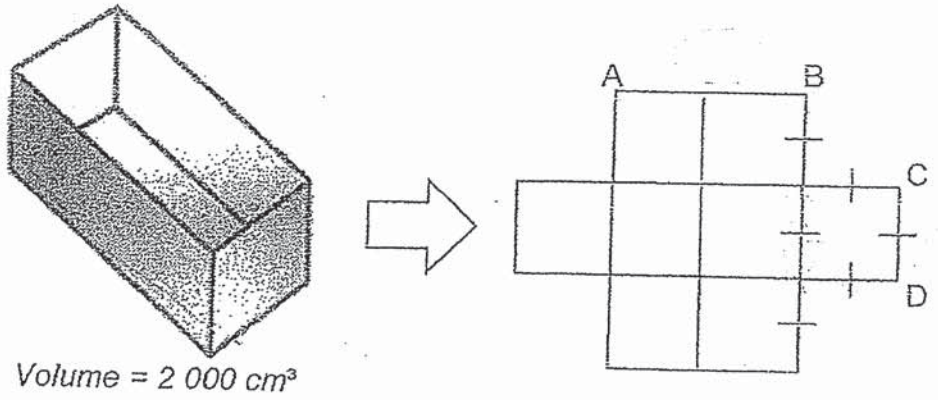
b) Find ∠EBD.



Ans: a) ∠BDE = _____ [2]

b) ∠EBD = _____ [2]

16. An open box is cut at the sides and flattened as shown below.



Volume = 2 000 cm³

Given that the length of AB is 2 times the length of CD, find the area of the flattened box.

Ans: _____ [5]

17. Grey and white beads were used to make figures that form a pattern.

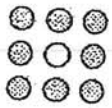


Figure 1

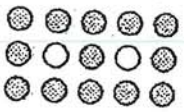


Figure 2

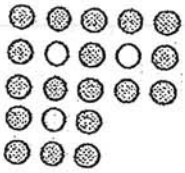


Figure 3

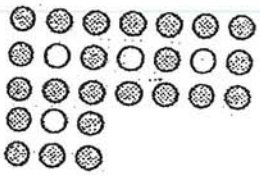


Figure 4

a) **Draw** in the *missing beads* to form **Figure 6**. [1]

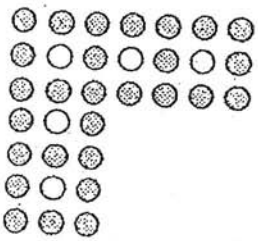


Figure 5

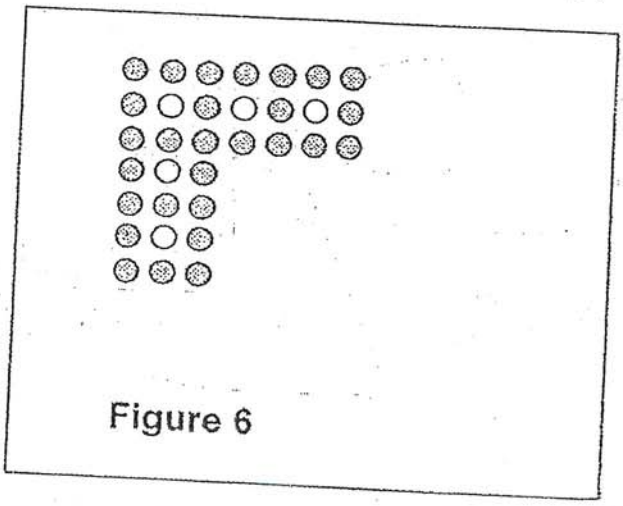


Figure 6

b) Fill in the missing numbers in the table for **Figure 7**. [1]

Figure	Number of Grey Beads	Number Of White Beads	Total Number of Beads
1	8	1	9
2	13	2	15
3	18	3	21
4	23	4	27
5	28	5	33
6	33	6	39
7		7	

c) How many beads were used to make **Figure 12**?

d) 83 grey beads were used to make a figure. What is the figure number?

Ans: c) _____ [1]

d) Figure _____ [2]

- END OF PAPER 2 -

ANSWER KEY

YEAR: 2020
LEVEL: PRIMARY 5
SCHOOL: TAO NAN SCHOOL
SUBJECT: MATH
TERM: SA2

BOOKLET A

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

BOOKLET B

Q16. Two million, seven hundred and four thousand and fifty.

Q17. $80\frac{8}{1000}$ =80.008

Q18. 24035, 23503, 23405, 23045

Q19. 127.087

Q20. $\frac{23}{25}\times100=92\%$

Q21. 65−17=48
48×8=384
384÷4=96
96+32=128

Q22. 4−1.75=2.25
2.25÷5=0.45
1l=1000ml
0.45l=450ml

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Q23. 120×6=720

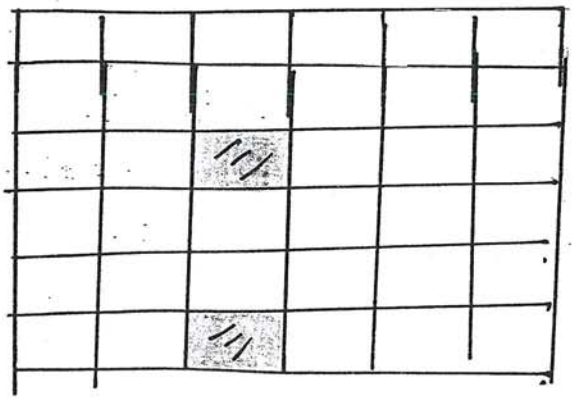
100×5=500

720−500=220

Q24. 30÷5=6

6×2=12

Q25.



Q26. 6 and 9

Q27. 192÷3=64

64=4×4×4

4cm

Q28. $\frac{1}{4}l=\frac{2}{8}l$

$1-\frac{1}{4}-\frac{3}{8}=\frac{3}{8}l$

Q29. 32÷4=8

8×3=24

$\frac{1}{2}\times24\times18=216cm^2$

Q30.

Red	Green	Total
4	3	7

80÷4=20

20×7=140

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ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 5
SCHOOL : TAO NAN SCHOOL
SUBJECT : MATHEMATICS
TERM : SA2

PAPER 2

Q1.
3+2+5=12
12÷6=2

Q2.
30÷2=15 
60÷5=12 

Q3.
¾×⅓=¼

Q4.
50-10=40
GUESS AND CHECK*
40-(14×2)=12
ALI=$12
BOB=$10
CAILI=$14
DINAH=$14

Q5.
$1 - \frac{2}{10} = \frac{8}{10}$
shaded : unshaded
2 : 16
1 : 8

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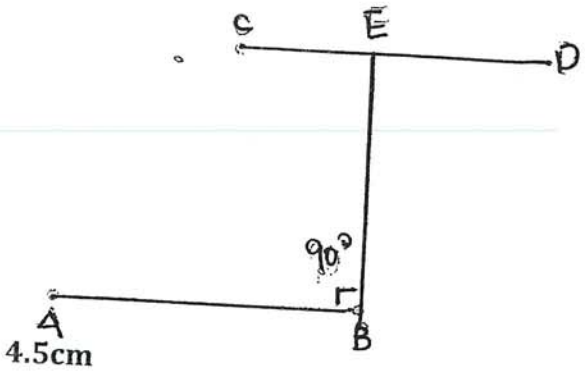
Q6.
100% −15%=85%
85%×4760=4046
100%+7%=107%
107%×4046=4329.22 (2dp)

Q7.
180×120×120=2592000
100%-60%=40%
$\frac{2592000}{6}$ ×4=1728000
1728000÷1000=1728L

Q8.



Q9.

Assuming all are laptops

25×1100=27500

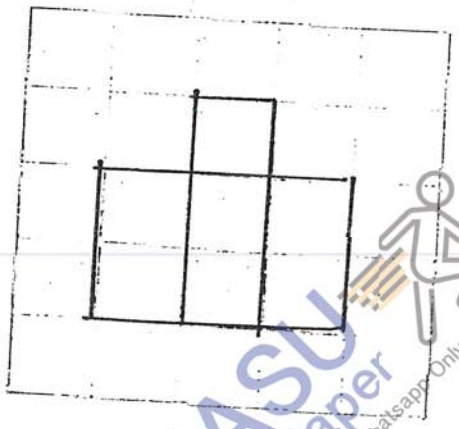
27500-24200=3300

1100-800=300

3300÷300=11 (a)

25-11=14 (b)

Q10.



Front View

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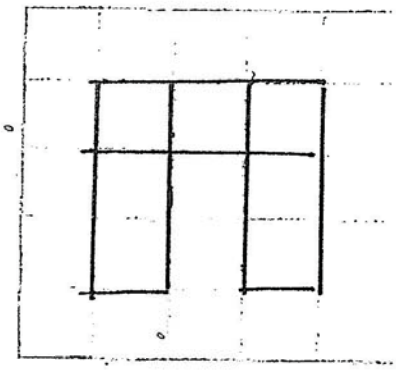
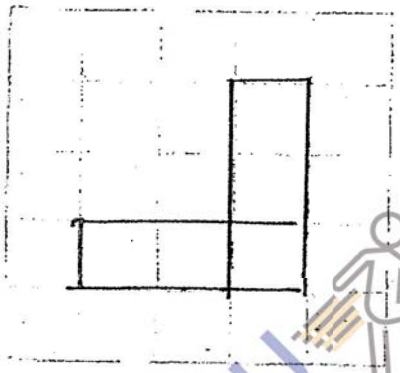


top view



Side view

Q11.
5.95 + 6.65 =12.6
40÷12.6=3 remaining 2.2 (a)

b)

	True	False	Not Possible To Tell
When Jiaming buys only one type of set meal with the $40 , he can buy more set A than Set B meals.		✓	

Q12
a)380×35=13300
13300ml=13.3L

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b)13300÷500=26.6
26.6≈27 (round up)

C)27×4.90=132.30 (2dp)

Q13
358-35=323
323÷19=17
17×15=255

Q14)
12 books + 5 magazines =4071
1 book =1 magazine +165
12 books =12 magazines + (165×12)
12 magazines + % magazines +1980=4071
17 magazines = 4071-1980
1 magazine =2091 ÷ 17= 123(note that in exam one equation there can only be one equal sign)
123+165=288

Q15.
Angle BCD,BDC,CBD=180°÷3=60°
Angle BDE=360°-60°-235°=65° (a)
Angle ABE=180°-60°-50°=70°
Angle EBD=180°-70°-60°=50° (b)

Q16.
2000÷2=1000
1000=10×10×10
10×10=100
8×100=800

Q17a)

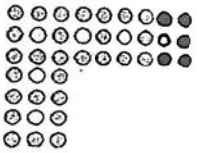

Figure 6

b)

Figure	Number of Grey Beads	Number of White Beads	Total Number of Beads
1	8	1	9
2	13	2	15
3	18	3	21
4	23	4	27
5	28	5	33
6	33	6	39
7	38	7	45

c) $12 \times 6 + 3 = 75$

d) $83 - 3 = 80$

$80 \div 5 = 16$

7

20/20.