Maha Bodhi School
2018 Continual Assessment 1
Primary 6
Mathematics
Paper 1
(Booklet A)

Name : _____ ( )

Class : Primary 6 _____

Date : 27 February 2018

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES:

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.

This booklet consists of **6** printed pages.

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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.
All diagrams are not drawn to scale. (20 marks)

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1. Which number when rounded to the nearest hundred is 354 800?

   (1) 354 749
   (2) 354 750
   (3) 354 850
   (4) 354 899

2. Find the value of $\frac{1}{5}+\frac{1}{2}$.

   (1) $\frac{1}{10}$
   (2) $\frac{2}{10}$
   (3) $\frac{2}{7}$
   (4) $\frac{7}{10}$

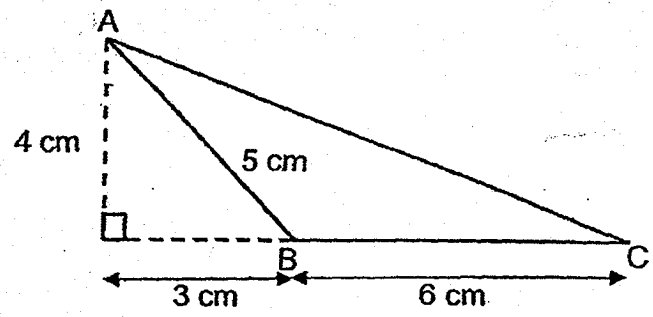
3. Arrange the decimals below in decreasing order.

   0.5, 0.63, 0.301, 0.310

   (1) 0.301, 0.310, 0.5, 0.63
   (2) 0.310, 0.301, 0.63, 0.5
   (3) 0.5, 0.310, 0.301, 0.63
   (4) 0.63, 0.5, 0.310, 0.301

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4. Find the area of Triangle ABC.



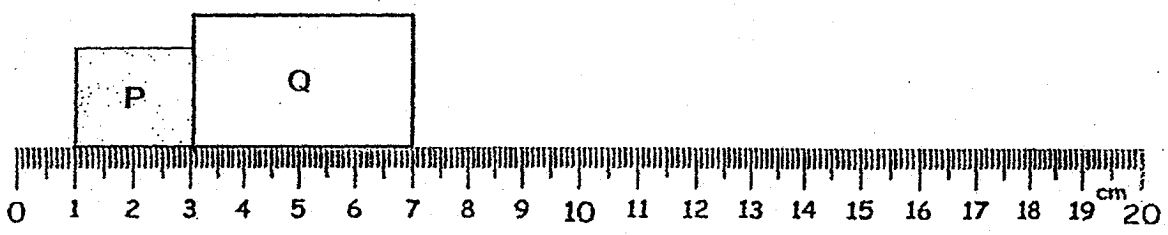
(1) 12 cm^2

(2) 15 cm^2

(3) 18 cm^2

(4) 24 cm^2

5.



What is the ratio of the length of Rectangle P to the length of Rectangle Q?

(1) 1 : 2

(2) 1 : 3

(3) 3 : 5

(4) 3 : 7

6. Tim is 13 years old. He is x years older than John.
How old is John?

(1) $(13 + x)$ years old

(2) $(13 - x)$ years old

(3) $(x - 13)$ years old

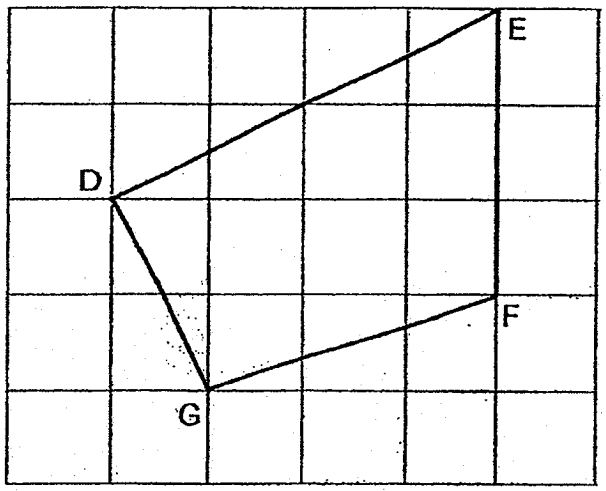
(4) $13x$ years old

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7. What is 12 tenths more than 0.12?

(1) 0.24
(2) 1.32
(3) 12.12
(4) 120.12

8. DEFG is a 4-sided figure. Which one of the following statements is true?



(1) DE is perpendicular to DG.
(2) FG is perpendicular to DG.
(3) DE is parallel to GF
(4) DG is parallel to EF.

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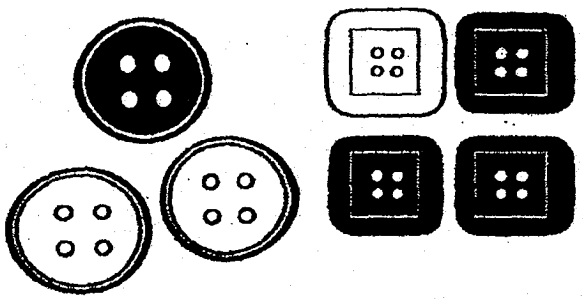
9. A gift company charges the following rate for their items.

Quantity	Rate
First 10 pieces	50¢ each
Additional pieces	40¢ each

How much would Mr Lim need to pay if he purchases 28 pieces for his pupils?

(1) $7.20
(2) $11.20
(3) $12.20
(4) $14.00

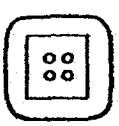
10. Study the diagram below.

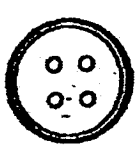


Which button must be removed so that 50% of the remaining round buttons are white?

(1) 

(2) 

(3) 

(4) 

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11. Simplify $7 - 5 + 8m + 4m \div 4$.

(1) $\frac{14m}{4}$

(2) $2 + 3m$

(3) $2 + 9m$

(4) $\frac{2 + 2m}{4}$

12. A jug has a capacity of 250 ml. A rectangular tank measuring 50 cm by 10 cm by 20 cm is half-filled with water. What is the least number of jugs of water needed to fill the tank to the brim?

(1) 20

(2) 40

(3) 80

(4) 160

13. After using $\frac{2}{5}$ of her ribbon, Mabel had $\frac{3}{10}$ m left.
How long was her ribbon at first?

(1) $\frac{7}{10}$ m

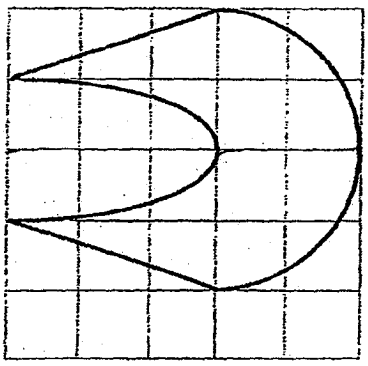
(2) $\frac{3}{25}$ m

(3) $\frac{3}{4}$ m

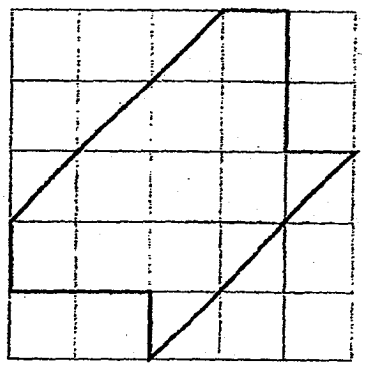
(4) $\frac{1}{2}$ m

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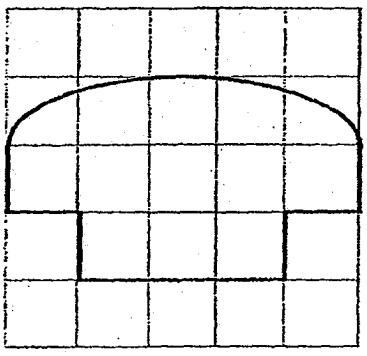
14. Which one of the following figures is not a symmetrical figure?



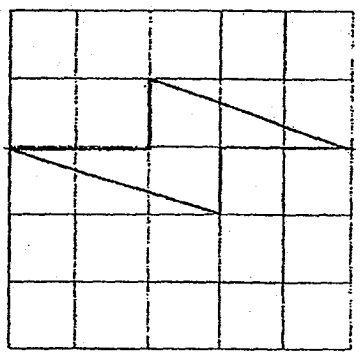
(1)



(2)



(3)



(4)

15. During a learning journey, the teacher divided all the Primary 6 students into groups of 40. The teacher then wrote down the number of boys in each group.
In one of the groups below, the girls made up 30% of the students in the group.
Which group was it?

	Group	Number of boys
(1)	A	10
(2)	B	12
(3)	C	28
(4)	D	30

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Maha Bodhi School
2018 Continual Assessment 1
Primary 6
Mathematics
Paper 1
(Booklet B)

Name : _____ ( ) Marks: /25

Class : Primary 6 _____

Date : 27 February 2018

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES:

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 all your answers in this booklet.
5. The use of calculators is **NOT** allowed.

This booklet consists of 7 printed pages.

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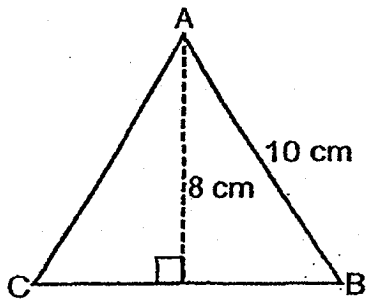
Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)
All diagrams are not drawn to scale.

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16. Express 2.06 as a mixed number in its simplest form.

Ans: _____

17. Triangle ABC is an equilateral triangle. Find its perimeter.



Ans: _____cm

18. Express $\frac{1}{2}$% as a decimal.

Ans: _____

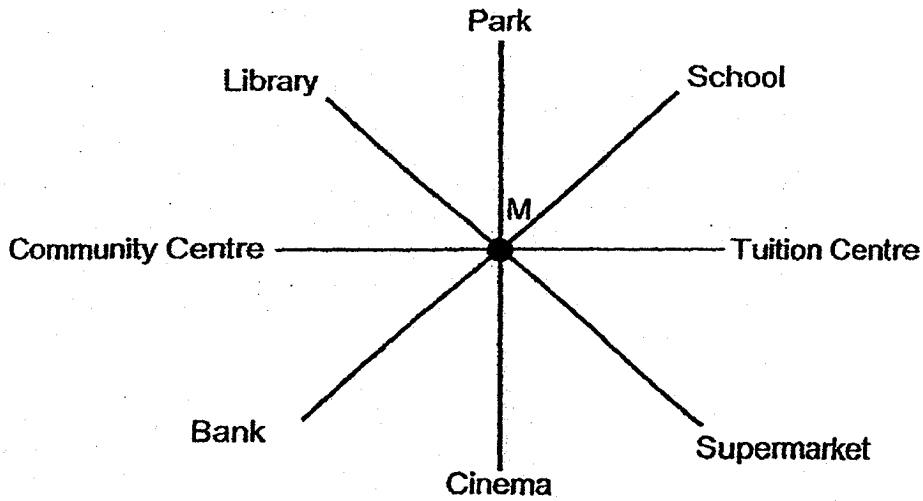
/3

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19. Subtract $8z$ from 8. Leave your answer in terms of z.

Ans: _____

20. Melanie was standing at point M. She turned 225° in an anti-clockwise direction and ended up facing the bank. Where was she facing at first?



Ans: _____

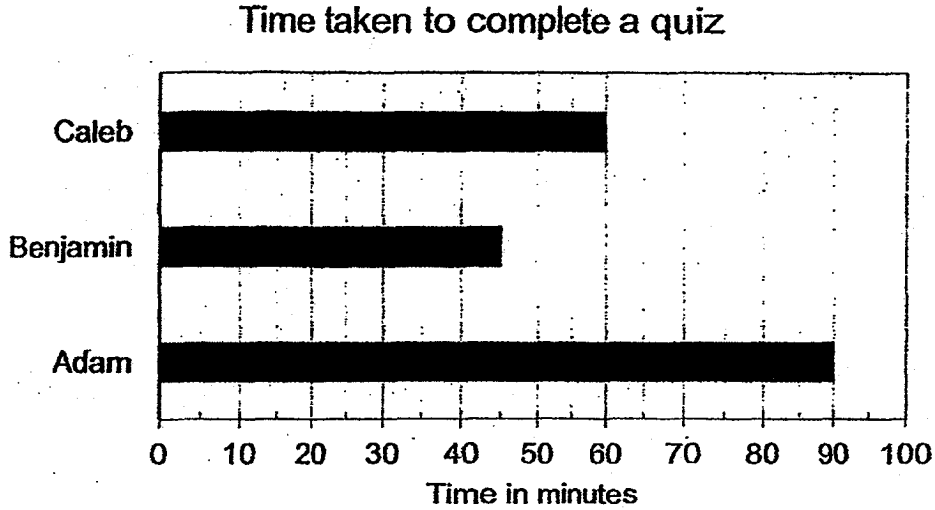
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/ 2

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

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21. The bar graph below shows the time taken by three pupils to complete a quiz.



Find the average time taken by the pupils to complete the quiz.

Ans: _____ min

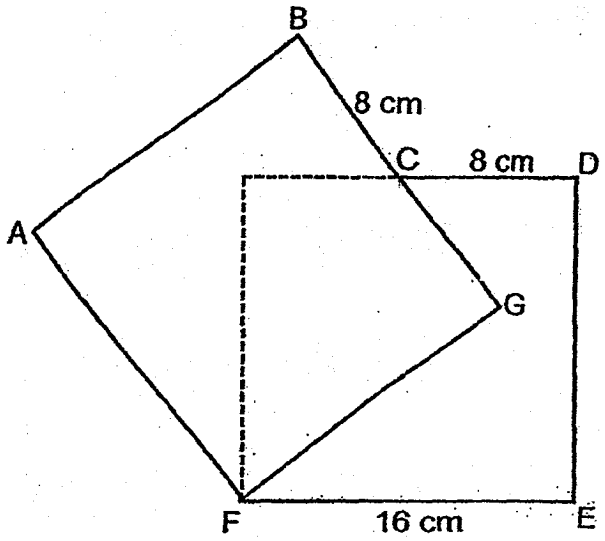
22. After receiving $3m$ cupcakes from her sister, Simone has 36 cupcakes.
If $m = 4$, find the number of cupcakes she had at first.

Ans: _____ cupcakes

/4

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23. The figure below is made up of 2 identical squares overlapping each other. BC = CD = 8 cm and EF = 16 cm. Find the area of the figure ABCDEF.



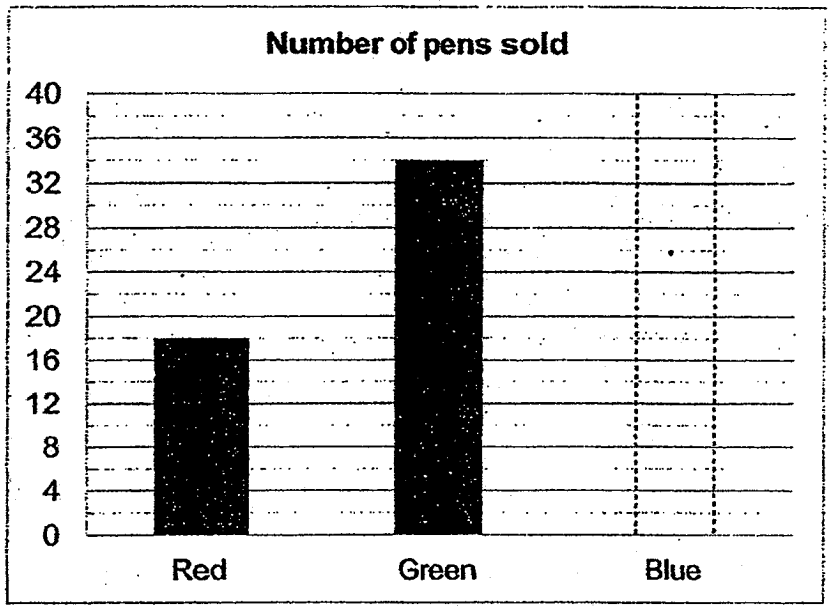
Ans: _____ cm^2

24. During a sale, Mother paid $40 for a blouse after a $10 discount was given. What was the percentage discount?

Ans: _____ %

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25. The graph below shows the number of pens sold at the bookshop.
The number of blue pens sold is equal to the average number of red and green pens sold. Each blue pen is sold at 90¢. What was the total amount collected from the sale of the blue pens?



Ans: $_____

26. Alan has 330 sweets. He needs to pack them into bags of 20 sweets.
How many such bags does he need?

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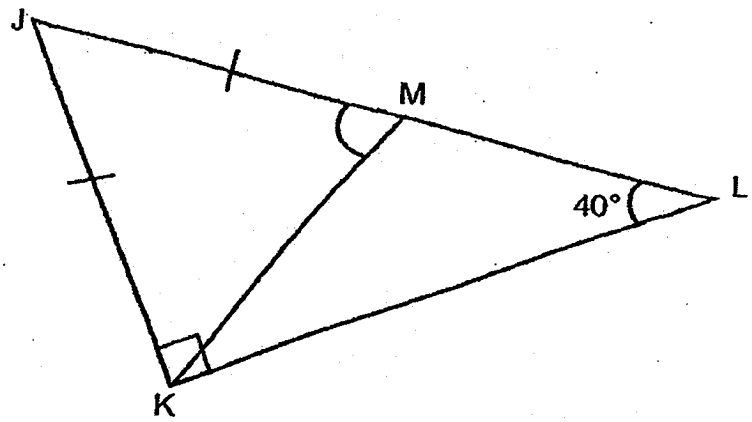
27. There are $\frac{4}{5}$ as many boys as girls and $\frac{3}{5}$ as many boys as men.

There are 50 more men than girls. How many children are there?

Ans: _____

28. In the figure below, JKL is a right-angled triangle. JM = JK and ∠JLK = 40°.

Find ∠JMK.

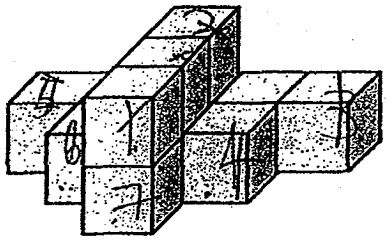


Ans: _____ °

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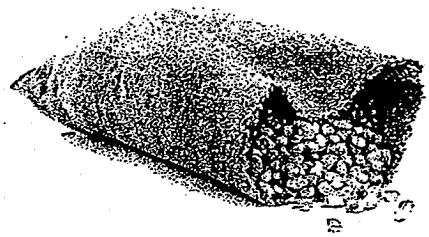
/4

29. The symmetrical solid below is made up of unit cubes glued together. It is then dipped into a pail of red paint. How many unit cubes have 4 of their faces painted red?



Ans: _____ unit cubes

30.

Coffee beans	Corn
	
$\frac{2}{3}$ kg	$\frac{1}{6}$ kg

To make his coffee powder, a coffee shop owner mixes $\frac{2}{3}$ kg of coffee beans with $\frac{1}{6}$ kg of corn. What fraction of his coffee powder is made up of coffee beans? Express your answer in the simplest form.

Ans: _____

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/4

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Maha Bodhi School
2018 Continual Assessment 1
Primary 6
Mathematics
Paper 2

Name : _____ ( )

Class : Primary 6 _____

Date : 27 February 2018

Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES:

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.

Paper	Booklet	Marks Obtained	Max Marks
1	A		20
	B		25
2	-		55
Total			**100**

Parent's signature: _____

This booklet consists of **12** printed pages.

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

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1. The mass of 1 packet of flour was 1.05 kg. A dozen packets of the flour were packed in a box weighing 600 g. Find the mass of the box containing a dozen packets of flour.

Ans: _____kg

2. Using the dots in the diagram below, draw another straight line and label it AB such that the ratio of the length of XY to the length of AB = 3 : 2.

X ——————— Y

3. There are $\frac{3}{2}$ as many female members as male members in a club.

What percentage of the members in the club are females?

Ans: _____%

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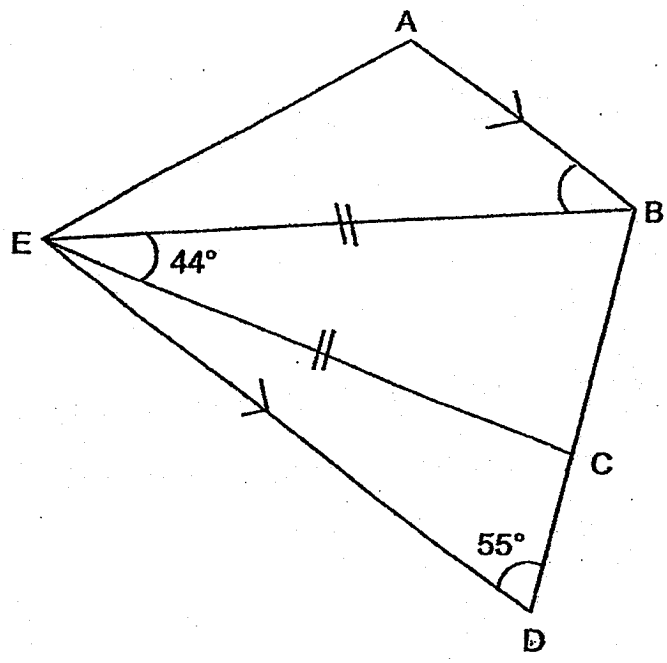
/6

Recipe
20 g starch
5 g sugar

4. Mrs Ng used the above recipe to make a certain substance for a Science experiment. She made 1.2 kg of the substance. How many grams of sugar did she use?

Ans: _____ g

5. In the diagram below, ABCDE is a trapezium. $\angle BEC = 44°$, $\angle CDE = 55°$ and EB = EC. Find $\angle ABE$.



Ans: _____ °

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/ 4

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. (50 marks)
You are allowed to use a calculator.

---

6. $\frac{3}{10}$ of the pens at the bookshop are green. The rest of the pens are blue and red.

The ratio of the number of blue pens to the number of red pens is 6 : 1. There are 60 more blue pens than green pens. Find the total number of pens at the bookshop.

Ans: _____ [3]

7. 3 identical notebooks cost $\$5d$.

(a) If $d = 6$, how much did each notebook cost?

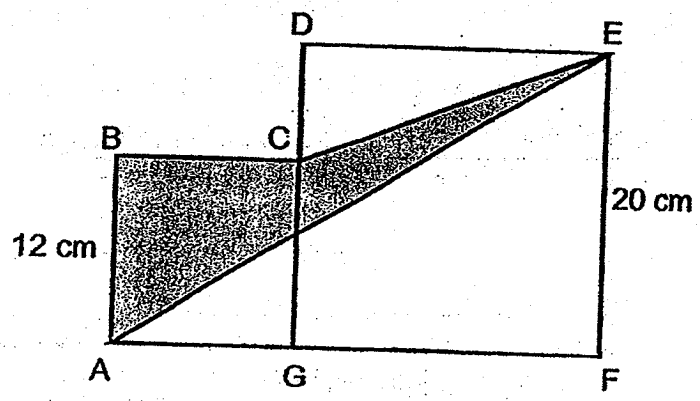
(b) Freddy wanted to buy 9 such notebooks. He was short of \$3.
Express the amount of money he had in terms of d.

Ans: (a) _____ [1]

(b) _____ [2]

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8. In the figure below, ABCG and DEFG are squares.
The length of square ABCG is 12 cm and the length of square DEFG is 20 cm.
Find the area of the shaded part.



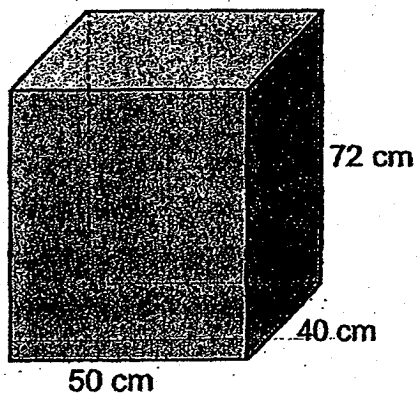
Ans: _____ [4]

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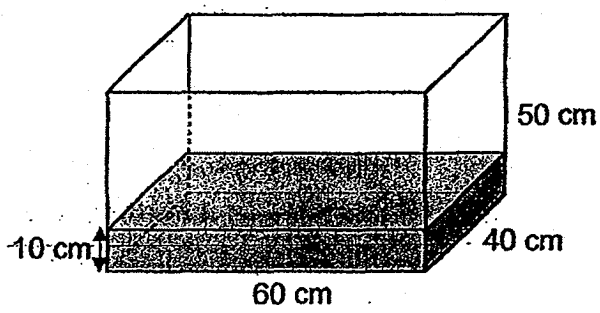
9. Tank A is completely filled with water while Tank B is filled with water up to a height of 10 cm. Water is then poured from Tank A to Tank B so that the volume of water left in Tank A is twice the volume of water in Tank B.

(a) Find the volume of water in Tank B at first.

(b) Find the volume of water left in Tank A in litres.



Tank A



Tank B

Ans: (a) _____ [1]

(b) _____ [3]

/4

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10. The table below shows parking rates for two carparks near the mall.

Carpark A
$2.20 for first hour $1.10 for every 30 min or part thereof
Carpark B
Free for first hour $0.08 per minute after the first hour

(a) Mr Wong parked his car at Carpark A from 11 a.m. to 12.15 p.m. to have his lunch at the mall. How much did he pay for the parking fees?

(b) Mr Cheong parked his car at the cheaper carpark at 12.45 p.m. and left at 3 p.m. on the same day. How much did he pay for the parking fees?

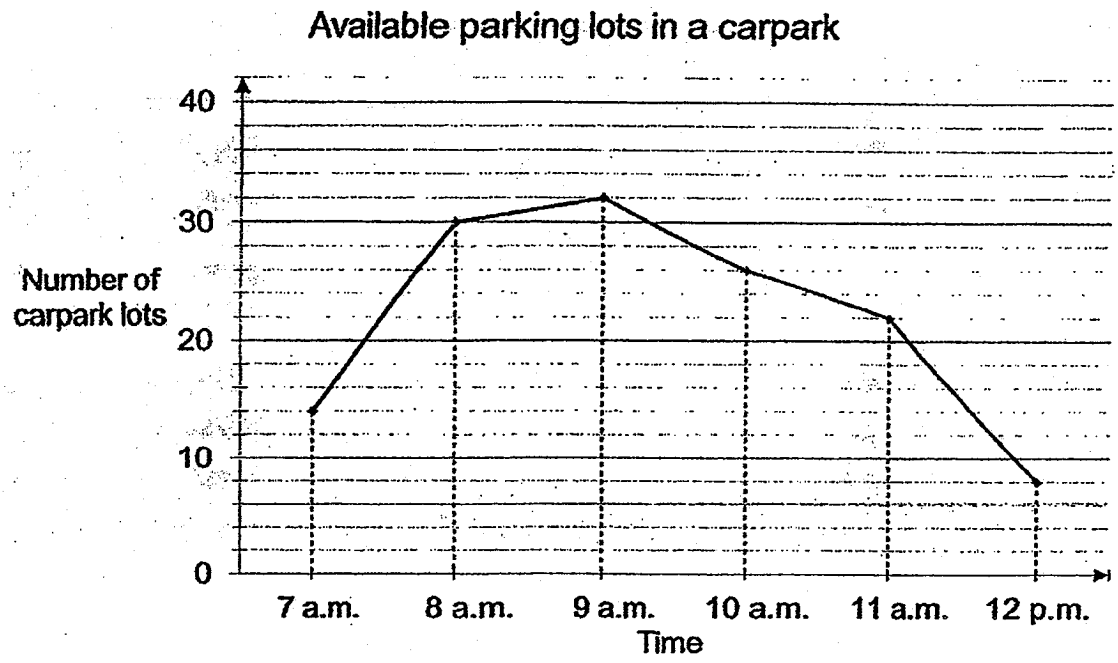
Ans: (a) _____ [1]

(b) _____ [3]

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/4

11. The number of available parking lots in a carpark was recorded every hour from 7 a.m. to 12 p.m.



(a) Between which one-hour interval did the number of available parking lots decrease the most?

(b) What was the average number of carpark lots available in the carpark from 7 a.m. to 12 p.m.?

(c) At which hour was the number of cars in the carpark the greatest?

(a) _____ and _____ [1]

(b) _____ [2]

(c) _____ [1]

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12. Study the pattern below.

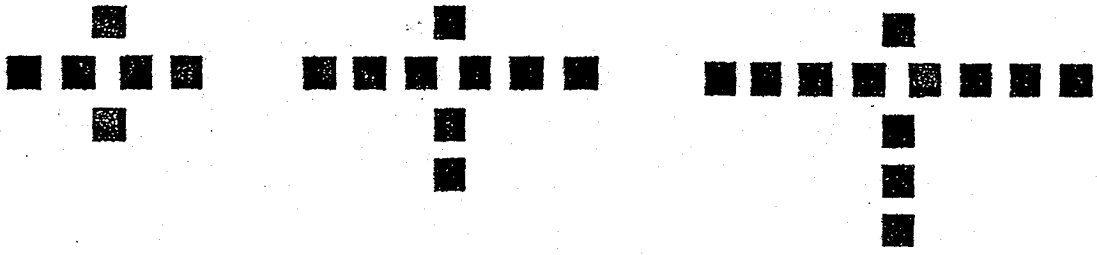


Figure 1 Figure 2 Figure 3

(a) How many squares are there in Figure 9?

(b) Which figure is made up of 98 squares?

Ans: (a) _____ [1]

(b) _____ [2]

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/ 3

13. There are 36 students in 6 Kindness and 38 students in 6 Love.

There are $\frac{2}{3}$ as many girls in 6 Love as in 6 Kindness.

There are $\frac{3}{4}$ as many boys in 6 Kindness as in 6 Love.

How many girls are there in 6 Love?

Ans: _____ [3]

14. Tank A holds 18.2 ℓ of petrol more than Tank B. After transferring 4.5 ℓ of petrol from Tank B to Tank A, Tank B had $\frac{1}{5}$ as much petrol as Tank A.

How much petrol was in Tank A at first?

Ans: _____ [3]

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15. There were 30 rows with 50 chairs each at first.
The chairs were rearranged into rows with equal number of chairs.
Each row had 40% more chairs than before.
More chairs were added and the number of rows was increased by 60%.
Find the percentage increase in the number of chairs.

Ans: _____ [4]

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/4

16. Amy, Ben and Colin went shopping together. Amy and Ben spent $56. Amy and Colin spent $61. Ben and Colin spent $11 more than Amy and Ben.

(a) Who spent the most money?

(b) How much did Amy spend?

Ans: (a) _____ [1]

(b) _____ [4]

/5

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17. There were 1143 members in a club.

$\frac{5}{6}$ of the women and $\frac{3}{7}$ of the men in the club volunteered to help out at an elderly home. There were 672 volunteers.

(a) How many men volunteered at the elderly home?

(b) What fraction of the members were women?

Express your answer in the simplest form.

Ans: (a) _____ [3]

(b) _____ [2]

/ 5

--End of Paper -

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SCHOOL : MAHA BODHI PRIMARY SCHOOL

LEVEL : PRIMARY 6
SUBJECT : MATH
TERM : 2018 CA1

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
3	1	4	4	3

PAPER 1 BOOKLET B

Q16)	$2\frac{3}{50}$
Q17)	30
Q18)	0.005
Q19)	8 – 8z
Q20)	Tuition Centre
Q21)	60 + 45 + 90 =195 195 ÷ 3 = **65**
Q22)	3m = 3 x 4 = 12 36 ÷ 12 = **24**
Q23)	16 x 16 = 256 16 x 8 = 128 256 x 2 = 512 512 - 128 = **384**
Q24)	40 + 10 = 50 10 ÷ 50 X 100% = **20%**
Q25)	34 + 18 = 52 52 ÷ 2 = 26 26 X 0.9 = **23.40**
Q26)	300 ÷ 20 = 16 R 10 (**Ans : 16**)

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Q27)	B : G : M 4 : 5 12 :15 3 : 5 12 : 20 12 :15 : 20 20 – 15 = 5 5U —> 50 1U —> 50 ÷ 5 = 10 Children —> 12 + 15 = 27 27u —> 27 x 10 = **270**
Q28)	90 + 40 = 130 180 – 130 = 50 180 - 50 = 130 130 ÷ 2 = **65**
Q29)	5
Q30)	4/5

PAPER 2

Q1)	1.05 kg = 1 050 g 12 x 1 050 g = 12 600 g 12 600 g + 600 g =13 200 g **Ans: 13.2 kg**
Q2)	———————— (A to B total 5 dots)
Q3)	F : M : Total 3 : 2 : 5 3/5 x 100% = **60%**
Q4)	20 + 5 = 25 1.2 kg = 1200 g 1200 ÷ 25 = 48 48 X 5 = **240**
Q5)	180 – 44 = 136 136 ÷ 2 = 68 180 - 68 = 112 55 + 112 = 167 180 – 167 = 13 44 + 13 = **57**

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Q6) G : B : R : Total
3 : 6 : 1 : 10

1 - 3/10 = 7/10
7/10 ÷ 7 = 7/10 x 1/7 = 1/10
6 – 3 = 3
60 ÷ 3 = 20
20 x 10 = **200**

Q7) a) $5d = $5 x 6 =$30
$30 ÷ 3 = **$10**

b) 3 notebooks —> $5d
9 notebooks —> $5d x 3=$15d
Freddy —> **$(15d-3)**

Q8) 12 + 20 = 32
20 – 12 = 8
½ X 32 X 20 = 320
½ X 8 X 20 = 80
12 X 12 = 144
20 X 20 = 400
400 + 144 = 544
320 + 80 = 400
544 – 400 = **144 cm^2**

Q9) a) 50 x 40 X 72 = 144000cm3
= 144000 ml
= 144 litres
60 X 40 X 10 = **24000 cm^3**

b) 144000 + 24000 = 168000 ml
16800 ÷ 3 = 56000 ml
= 56 litres
56 x 2 = 112
Ans : 112 litres

Q10) a) $2.20 + $1.10 = **$3.30**

b) $2.20 + $1.1 X 3 = $2.20 + $3.30 = **$5.50**
1 hour —> 60 mins
60 mins + 15 mins = 75 mins
75 X $0.08 = $6

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Q11) **a) 11 a.m. and 12 p.m.**

b) 14 + 30 + 32 + 26 + 22 + 8 = 132
132 ÷ 6 = **22**

c) 12 pm

Q12) a) 9 + 9 + 10 + 10 = **38**

b)

Figure No.	Square No.	Check
19	78	X
22	90	X
23	94	X
24	98	√

Ans : 24

Q13)

Class 6K (36) : B→ 3x
G → 3u
Class 6G (38) : B → 4x
G → 2u

36 = 3x + 3u
38 = 4x + 2u
72 = 6x + 6u
114 = 12x + 6u
6x = 114 - 72
= 42
x = 42 ÷ 6
=7

(6L) No. of boys —> 7 x 4 = 28

(6L) No. of girls —> 38 – 28 = **10**

Q14) 18.2 + 4.5 + 4.5 = 27.2
27.2 ÷ 4 = 6.8
6.8 X 5 = 34
34 – 4.5 = **29.5 (Ans : 29.5 litres)**

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Q15) 100% —> 30
60% —> 30 ÷ 100 X 60 = 18
18 + 30 = 48
48 X 70 = 3360
100% —> 1500
1% —> 15
224% —> 15 X 224 = 3360
224% - 100% = **124%**

Q16) A + B —> $56
A + C —> $61
B + C —> A + B + $11
= $56+$11
=$67
Ans : Colin

b)
$56 + $61 + $67 = $184
$184 ÷ 2 = $92
$92 - $61 = $31
$92 - $56 = $36
$92 - $67 = **$25**

Q17) W —> 6U
M —> 7X

a)
5U + 3X = 672
6U + 7X = 1143
30U + 18X = 4032
30U + 35X = 5715
17X = 1683
X = 1683 ÷ 17 = 99
3X = 99 X 3 = **297**

b)
M —> 99 X 7 = 693
W—> 1143 – 693 = 450
450/1143 = **50/127**

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