Maha Bodhi School
2017 Semestral Assessment 1
Primary 5
Mathematics
Paper 1
(Booklet A)

Name :_____( )

Class : Primary 5 _____

Date : 5 May 2017

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

This booklet consists of 7 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. (20 marks)
All diagrams are not drawn to scale.

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1. In 2 468 910, how many hundreds are there in the value of the digit 8?

   (1) 8
   (2) 80
   (3) 800
   (4) 8000

2. There are enough marbles in a box to be given to 8 boys or 6 girls exactly.
   What is the smallest possible number of marbles in the box?

   (1) 12
   (2) 14
   (3) 24
   (4) 48

3. How many sixths are there in $3\frac{2}{3}$?

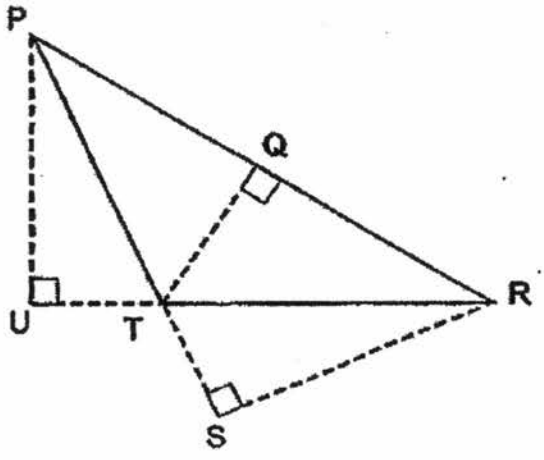
   (1) 11
   (2) 18
   (3) 22
   (4) 40

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4. In 0.023, what does the digit 2 stands for?

(1) 2 tens
(2) 2 tenths
(3) 2 hundredths
(4) 2 thousandths

5. In the figure below, TR is the base of triangle PTR.
What is the corresponding height of triangle PTR?



(1) PT
(2) PU
(3) QT
(4) RS

6. Find the missing value in the box below.

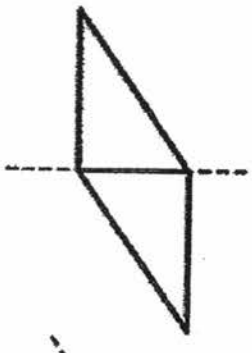
$\square : 6 = 15 : 9$

(1) 12
(2) 10
(3) 3
(4) 5

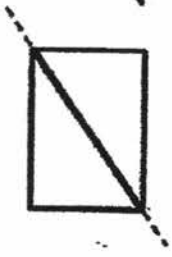
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7. In each of the diagrams below, 2 identical triangles are drawn.
Which one of the dotted lines represents the line of symmetry for each diagram?

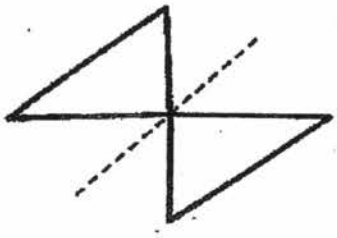
(1)



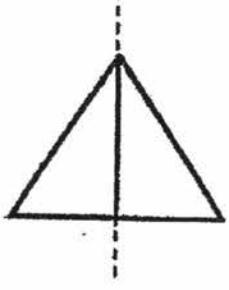
(2)



(3)



(4)



8. Which one of the following fractions is smaller than $\frac{3}{7}$?

(1) $\frac{3}{5}$

(2) $\frac{3}{10}$

(3) $\frac{4}{9}$

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

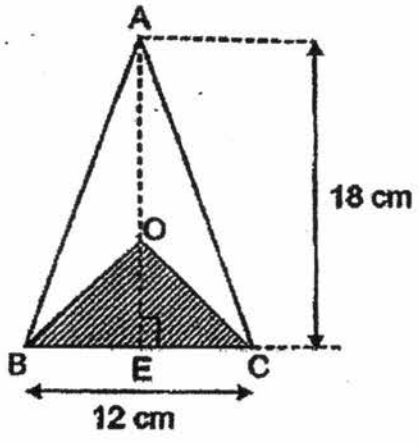
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9. Bobby's watch shows 18 25 at the end of his 2-hour swimming lesson.
His watch is 15 minutes faster than the actual time.
What is the actual starting time of his swimming lesson?

(1) 16 10
(2) 16 40
(3) 18 10
(4) 18 40

10. The figure below is made up of 2 triangles. AO is twice as long as OE.
AE is 18 cm and BC is 12 cm.
Find the area of the shaded part.



(1) 36 cm^2
(2) 54 cm^2
(3) 72 cm^2
(4) 108 cm^2

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11. If 1.23 × 456 = 560.88,

then 1230 × 456 = 560.88 ◯ ☐

What are the missing operation and number?

(1) × 1000

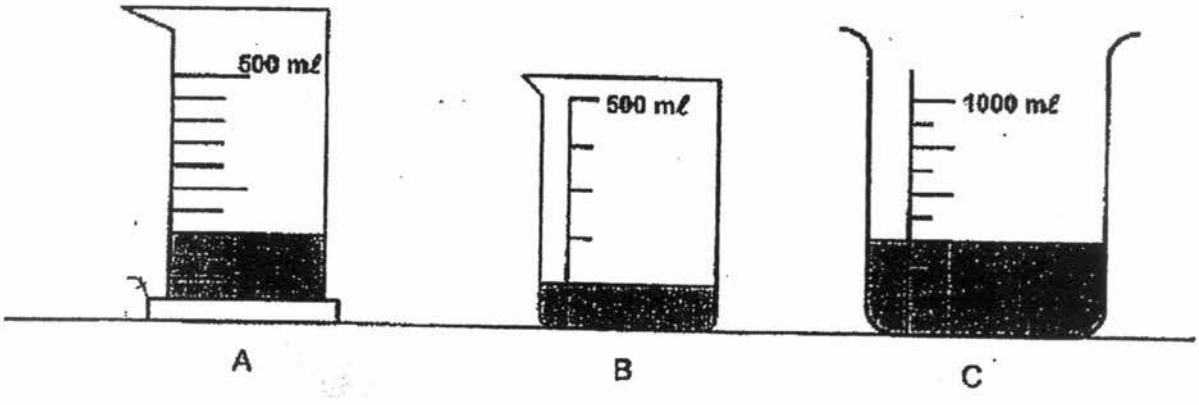
(2) × 10

(3) + 10

(4) + 1000

12. The diagram shows three containers with some water.

Arrange the volume of water in containers A, B and C from the largest to the smallest.



(1) A, B, C

(2) B, A, C

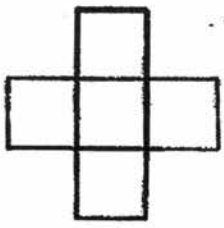
(3) C, A, B

(4) C, B, A

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13. The figure is made up of 5 identical squares. The area of each square is 36 cm^2. Find the perimeter of the figure.



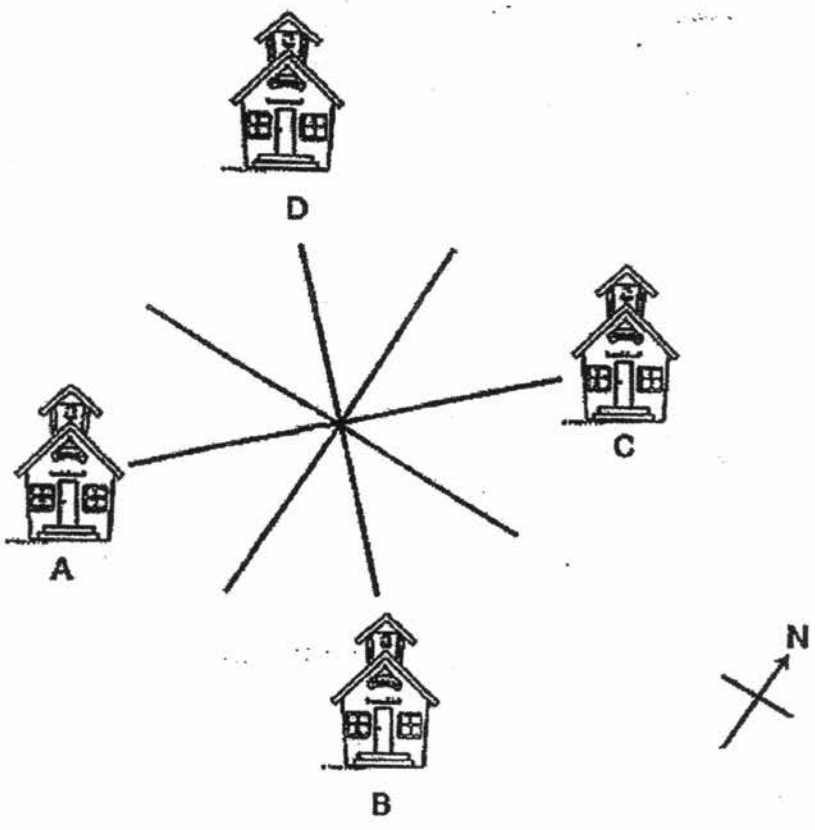
(1) 72 cm
(2) 96 cm
(3) 108 cm
(4) 120 cm

14. Simon spent $\frac{4}{7}$ of his pocket money on travelling and $\frac{1}{3}$ of his remaining money on food. What fraction of his pocket money was left?

(1) $\frac{1}{7}$
(2) $\frac{2}{7}$
(3) $\frac{5}{7}$
(4) $\frac{2}{21}$

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15. In the diagram, Susan is facing south-west.
She needs to make a 90° turn in an anti-clockwise direction to face her school.



Which one of the following options shows the position of her school?

(1) A
(2) B
(3) C
(4) D

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Maha Bodhi School
2017 Semestral Assessment 1
Primary 5
Mathematics
Paper 1
(Booklet B)

Name :_____( ) Marks: /25

Class : Primary 5_____

Date : 5 May 2017

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.

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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. $\boxed{?} - \frac{3}{8} = \frac{5}{12}$

What is the missing fraction in the box?

Ans: _____

17. Express $2\frac{5}{8}$ as a decimal.

Ans: _____

18. Express 3 ℓ 10 ml in millimetres.

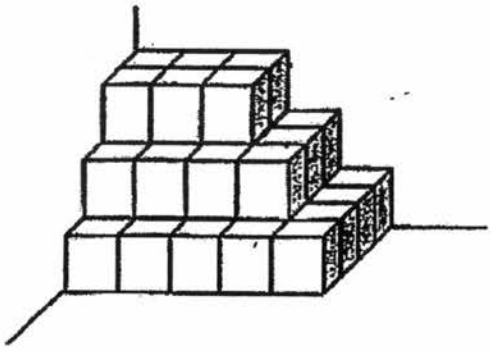
Ans: _____ ml

/ 3

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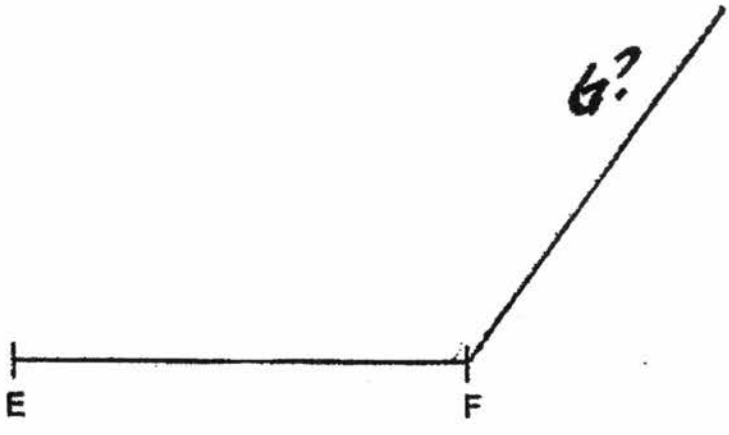
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19. The solid below is made up of 1-cm cubes. What is the volume of the solid?



Ans: _____ cm^3

20. The diagram shows a straight line EF. Complete the diagram by drawing another straight line FG to show that ∠EFG = 125°.



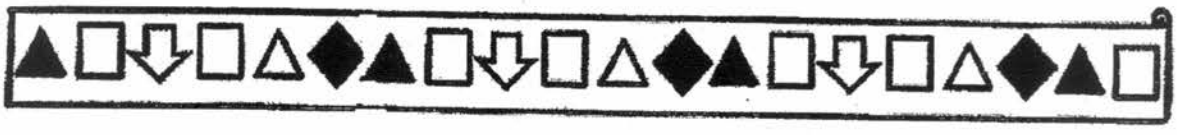
/ 2

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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)
All diagrams are not drawn to scale.

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21. Sarah printed some shapes in the following pattern:



What is the 59th shape that she printed?

Ans:_____

22. Water flows from a tap at 6 litres per minute to fill up a tank. It takes 7 minutes to fill the tank to the brim. Find the capacity of the tank.

Ans: _____litres

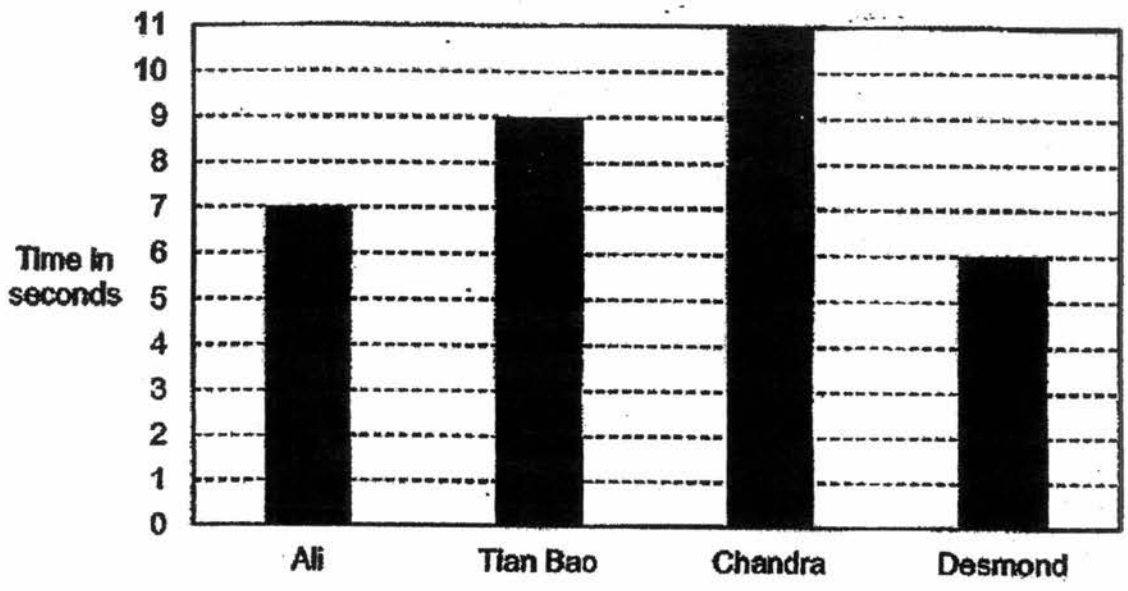
23. The ratio of the number of pencils to the number of erasers is 3 : 7.
There are 90 pencils and erasers altogether.
How many pencils are there?

Ans: _____ pencils

/ 6

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24. The bar graph below shows the timing taken by 4 boys when they competed in a 50-metre race.



Write down the time taken by the boy who was second to complete the race.

Answer: _____ seconds

25. A bag of sweets was shared between Jun Wei, Kai Jie and James.
Kai Jie received twice as many sweets as James and thrice as many sweets as Jun Wei.
There were 55 sweets in the bag. How many sweets did Jun Wei receive?

Answer: _____ sweets

/ 4

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26. Diagram A shows the mass of two identical apples and a pineapple.
Diagram B shows the mass of an apple.
Find the mass of the pineapple.

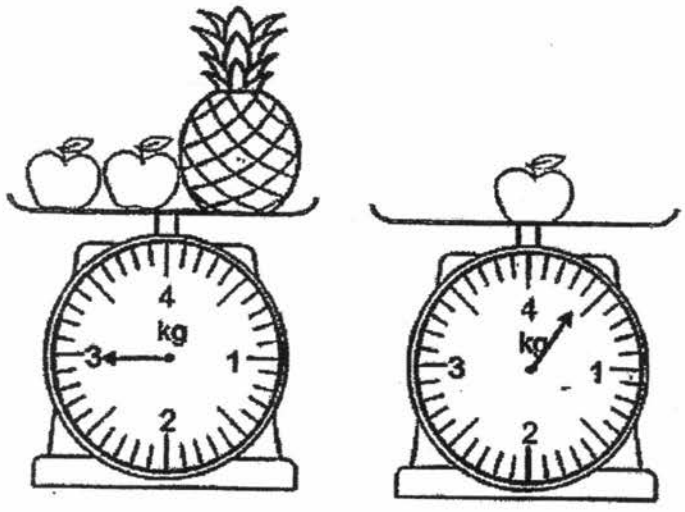
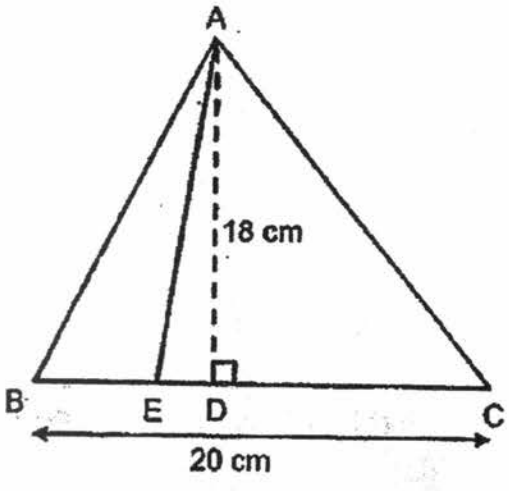


Diagram A Diagram B

Answer: _____ kg

27. ABC is a triangle. AD is perpendicular to BC. AD is 18 cm and BC is 20 cm.
BE is 4 cm. Find the area of Triangle AEC.



Ans: _____ cm^2

/ 4

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28. The ratio of the number of 20 ¢-coins Rina has to the number of 10 ¢-coins Yvonne has is 2 : 5. The value of Rina's coins is $6 less than the value of Yvonne's coins. How many 20 ¢-coins does Rina have?

Ans: _____ coins

29. $\frac{3}{5}$ of Abby's money is equal to $\frac{4}{9}$ of Betty's money.

Betty has $140 more than Abby.

How much money does Betty have?

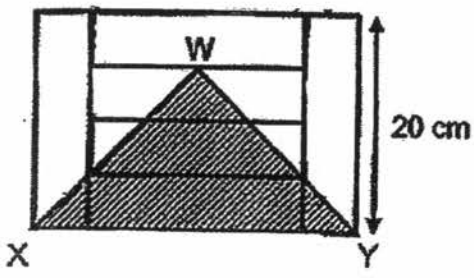
Ans: $_____

/ 4

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30. The figure below is made up of 6 identical rectangles of length 20 cm.
Find the area of the shaded triangle WXY.



Ans: _____ cm^2

/ 2

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Maha Bodhi School
2017 Semestral Assessment 1
Primary 5
Mathematics
Paper 2

Name : _____( )

Class : Primary 5 _____

Date ; 5 May 2017

Duration: 1 h 30 min

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 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)
All diagrams are not drawn to scale.

1: **John has 4 sweets more than Joan.**

John has 10 sweets. How many sweets do they have altogether?

Ans:_____sweets

2. **Benny poured $\frac{3}{5}$ litres of apple juice into each cup.**

How much apple juice would he pour into 8 such cups?

Give your answer as a mixed number in the simplest form.

Ans:_____litres

3.



Measure the line AB and round your answer to the nearest whole number.

Ans:_____cm

/ 6

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4. The ratio of the number of girls to the number of boys in the choir is 13 : 5. There are 78 girls. How many more girls than boys are there in the choir?

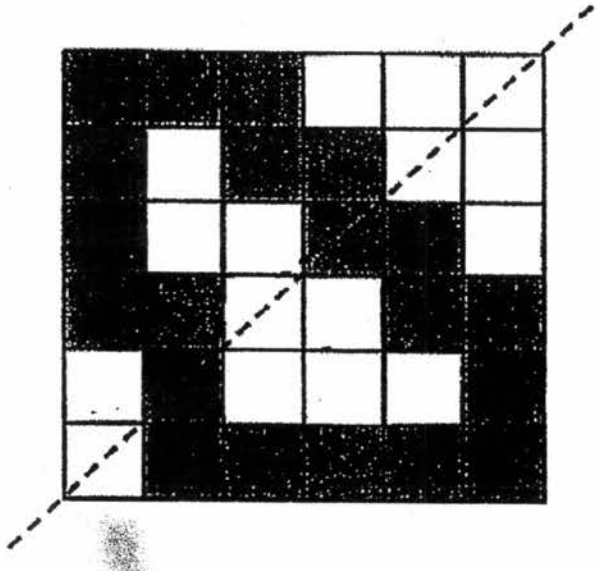
Ans: _____ more girls

5. A teacher asked Anne to shade 20 squares in the figure below so that the dotted line will be a line of symmetry of the completed diagram. However, Anne made a mistake and shaded one square wrongly.

In the diagram below,

(a) put the letter 'X' in the square that she had shaded wrongly.

(b) Put the letter 'A' in the square which she should have shaded instead.

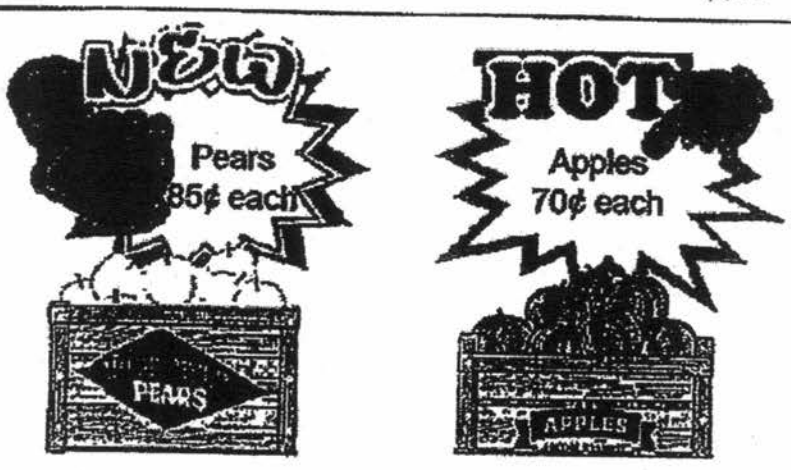


/ 4

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For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)
All diagrams are not drawn to scale.



6. Mrs Siva bought 5 pears and 4 apples. How much did she pay for her fruits? Round your answer to the nearest dollar.

Ans: _____[3]

/ 3

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7. Karen went to the post office to send some letters to her friends in Japan. The postage rates to Japan is shown in the table below.

Mass of letter	
First 30 g	$ 1.50
Every additional 10 g or part thereof	40 ¢

Karen wanted to send a letter with a mass of 55 g to Japan.
She gave the cashier a $5-note. How much change did she get?

Ans: _____ [3]

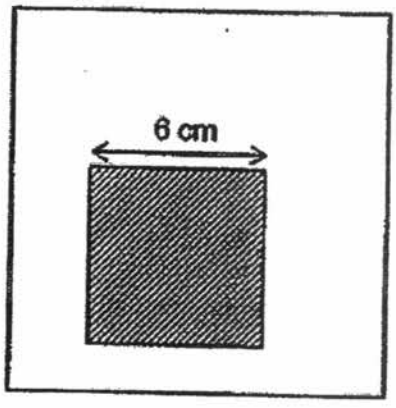
8. A sum of money was shared among three friends, Marc, Joelle and Amos in the ratio 5 : 9 : 3 respectively. Joelle received $252 more than Amos. How much money did they share at first?

Ans: _____ [3]

/ 6

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9. A small square of side 6 cm is cut out from a bigger square of area 144 cm^2.
Find the ratio of the shaded area to that of the unshaded area in the simplest form.



Ans: _____ [3]

10. In 2017, Jiawei is 11 years old and his father is 40 years old.
In which year will his father be twice as old as him?

Ans: _____ [4]

/ 7

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11. Peter had $\frac{7}{8}$ m of cloth. He cut 3 pieces of cloth of the same length from it.

Each piece was $\frac{1}{8}$ of the cloth he had.

(a) How much cloth did he have left?

(b) How many more such pieces can he cut from it?

Ans: (a)_____[3]

(b)_____[1]

/ 4

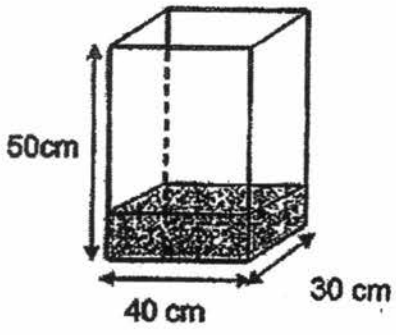
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12. In the diagram shown below, a tank measuring 40 cm by 30 cm by 50 cm is $\frac{2}{5}$ filled with water. Mr Lim then turns on a tap. For every 1 minute, 1.2 litres of water flows from the tap into the tank.

(a) How much water is in the tank at first?

(b) How long will it take to fill the tank completely?



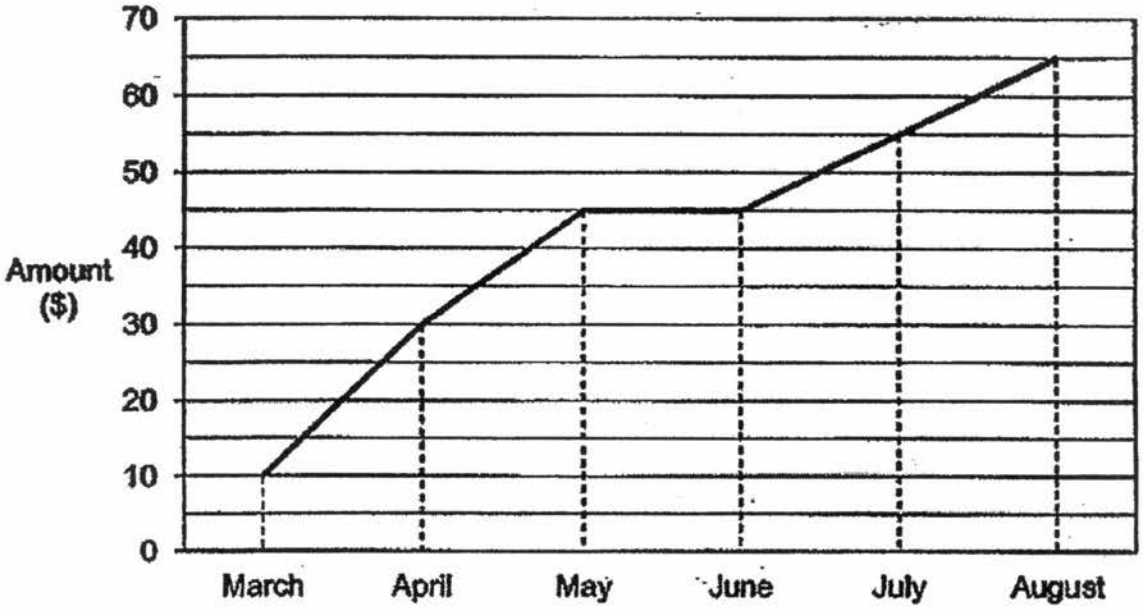
Ans: (a)_____ [1]

(b)_____ [3]

/ 4

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13. Junming started putting money into his empty piggy bank in March. He aimed to save at least $100 by November. The line graph below shows the amount he had in the piggy bank at the end of each month.



(a) Complete the following table by writing down the amount he put into the piggy bank for each month. [2]

Month	Amount put in per month ($)
March	10
April	
May	
June	
July	
August	

(b) Junming deposited the same amount every month in September, October and November as he did in May. Did he manage to save $100 by November?

(c) Find the total amount he had in his piggy bank by the end of November.

Ans: (b)_____[1]

(c)_____[1]

/ 4

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14. Edison, Farida and Gavin sold some charity tickets.

After Edison had sold his share of the tickets, Farida sold $\frac{2}{7}$ of the remainder and Gavin sold the rest.

Edison and Farida sold 165 tickets. Gavin and Edison sold 246 tickets.

How many tickets did Gavin sell?

Ans: _____ [3]

/ 3

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15. Aini, Ben and Cai Yuan share a sum of money.

The amount of money Aini has is $\frac{1}{2}$ of the total amount of money Ben and Cai Yuan have.

The amount of money Ben has is $\frac{1}{3}$ of the total amount of money Cai Yuan and Aini have.

(a) What fraction of the total sum of money does Cai Yuan have?
Give your answer in the simplest form.

(b) If Cai Yuan has $1850, how much is the sum of money they share?

Ans: (a)_____[1]

(b)_____[3]

/ 4

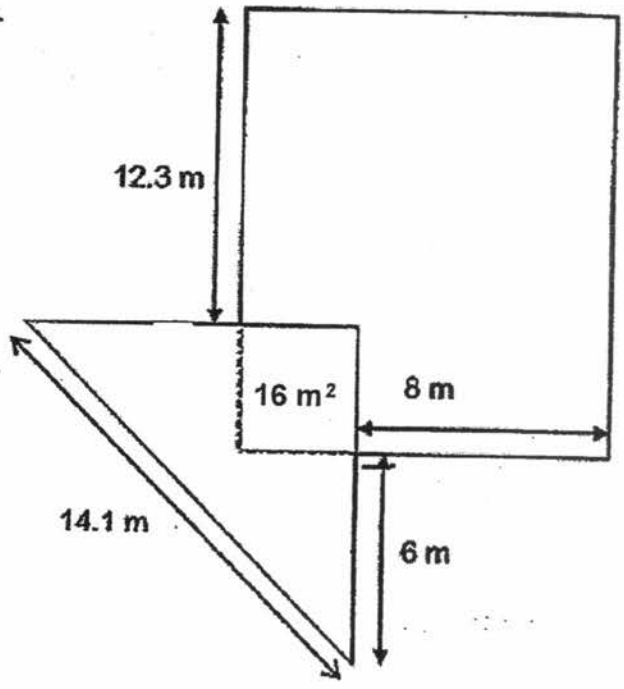
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16. A triangle which has two equal sides and a rectangle overlapped each other as shown in the figure below. The overlapped area formed a square of area 16 m^2.

(a) Find the perimeter of the entire figure.

(b) Find the area of the entire figure.



Ans: (a)_____ [1]

(b) _____ [4]

/ 5

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17. Sue either saved two 20 ¢-coins or two 50 ¢-coins each day.
After 70 days, she found out that her 20 ¢-coins added up to be $1.40 more than her 50 ¢-coins.
What was the ratio of the number of days Sue saved 20¢-coins to the number of days she saved 50¢-coins ~~coins~~?

Ans: _____ [5]

/ 5

Remember to check your work! Every mark counts.
~ End of Paper ~

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Year : 2017

Level : Primary 5

School : Maha Bodhi School

Subject : Mathematics

Term : SA1

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

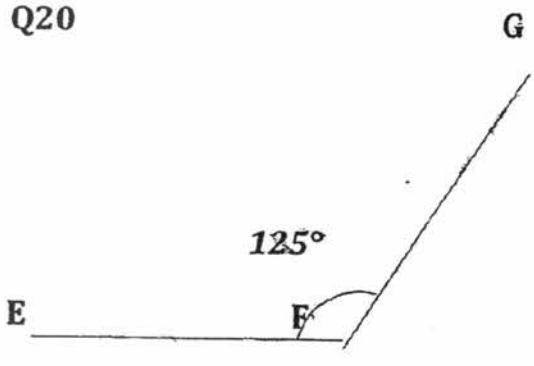
Q16 $\frac{19}{24}$

Q17 2.625

Q18 3010ml

Q19 38cm3

Q20



Q21 triangle

Q22 42litres

Q23 27 pencils

Q24 7 seconds

Q25 10 sweets

Q26 2.2kg

Q27 144cm2

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Q28 120 coins

Q29 540 dollars

Q30 225cm2

Paper 2

Q1 10–4=6

10+6=16

Q2 $\frac{3}{5}$ x 8 = $\frac{24}{5}$

$=4\frac{4}{5}$

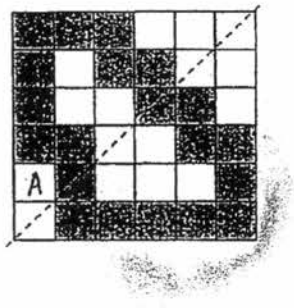
Q3 10cm

Q4 13u=78

13u-5u=8u

(78x8)÷13=48

Q5



Q6 Cost of 5 of pears=(85centsx5)÷1=$4.25

Cost of 4 apples= (70 centsx4)÷1=$2.80

She paid=($2.80+$4.25)÷1=$7.05

$7.05 round off to $7

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Q13 a

Month	Amount put in per month ($)		
March	$10		
April	$20		
May	$15		
June	$0		
July	$10		
August	$10		

Q13 b yes ($100)

Q13 c 3x15=45

65+45=$110

Q14 5-2=3 units

3 units=246-165=81

5 units=(5x81)÷ 3=135

Q15 Aini=$\frac{1}{3}$

Ben=$\frac{1}{4}$

Cai Yuan=$\frac{5}{12}$

5 units=1850

2 units=(12x1850)÷ 5=$4440

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Q7 She had to pay =$1.50+($0.40x3)=$2.70

She received=$5-$2.70=$2.30

Q8 9 units-3 units=6 units

6 units=$252

(5+9+3)units=($252x17)÷6=$714

Q9 144÷12=12cm

6x6=36cm^2

36:144-36

=36:108

=1:3

Q10 1 unit=40-11=29

29-11=18

2017+18=2035

Q11 $\frac{1}{8} \times \frac{7}{8} = \frac{7}{64}$m

$3 \times \frac{7}{64} = \frac{21}{64}$

$\frac{7}{8} - \frac{21}{64} = \frac{35}{64}$

Q12 $\frac{2}{5}$x40x30x50=24 000 cm3

1200ml=1 minute

($\frac{3}{5}$x40x30x50)ml=36 000÷1200=30 minutes

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Q16 12.3+4=16.3m

8+4=12m

Perimeter=12+16.3+8+6+14.1+6+12.3=74.7m

Area of rectangle=12x16.3=195.6m2

(10x10)÷2=50m2

Area of Figure=(50+195.6)-16=229.6

Q17

50 cents		20 cents		total	
no.	value	no.	value	no.	diff
2	100	138	2760	140	2660
4	200	136	2720	140	2520
38	1900	102	2040	140	140

1 day=2 coins

70 days=140 coins

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