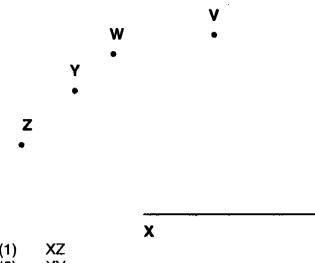
MAHA BODHI SCHOOL 2005 SEMESTRAL ASSESSMENT 1 MATHEMATICS

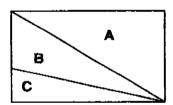
Nam	e :		()	Date: 10 May 2005
Clas	s: Prima	ary 6 ()		Duration : 2h 15 min
Sect	ion A :	15 carries 2 marks. For each question, fou	ir options are giv your choice (1, 2	Each question from 6 to ren. One of them is the , 3 or 4) and shade the (25 marks)
1.	(1) (2) (3)	n of the following, when teand? 59 499 59 940 60 501 60 986	rounded off to the	e nearest thousand, is 60
2.		cake weighing 1kg is cut piece? 125g 12.5g 1.25g 0.125g	into 8 equal piece	s. What is the weight of

www.misskoh.com

To obtain an angle of 100° at the point X, which line should you draw? 3.



- (1)
- (2)XY
- (3) XW
- (4) X۷
- 4. The rectangle below is divided into 3 parts A, B and C. The area of A to C is in the ratio 3: 1. What is the ratio of the area of B to that of A?



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

The table shows Royston's Mathematics marks for CA1 and CA2. His (5) average score is 67 marks when rounded off to the nearest whole number. What are his possible CA3 marks?

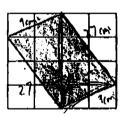
6.1	73
	68
CAG	?
Average	67

- 60
- 59
- 58
- Find the value of $24 + 40 \div 4 \times 2$ 6.

 - (2) (3) (4) 32
 - 44
- A jug is $\frac{3}{4}$ full of milk. It can fill 5 cups with milk. If John pours the milk 7. into 3 cups, what fraction of the jug is filled with milk?
 - (1)
 - (2)
 - (3)
 - (4)

8. If $74.5 \pm 5 = 14.9$, what is the missing number in

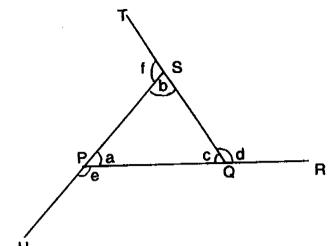
- (1) 5
- (2) 50
- (3) 500
- (4) 5000
- 9. Elaine bought 300 pears for \$120. She threw away some bad ones and sold the good ones at \$0.60 each. On the whole, she made \$48. How many pears did she throw away?
 - (1) 120
 - (2) 80
 - (3) 40
 - (4) 20
- 10. Miss Lim bought 2.5 kg of grapes at \$19.50. How much was the price for 1 kg of the grapes ?
 - (1) \$1.95
 - (2) \$4.88
 - (3) \$7.80
 - (4) \$8.75
- 11.



The grid above is made up of squares of side 3 cm. Find the shaded area.

- (1) 8 cm²
- (2) 24 cm²
- (3) 54 cm²
- (4) 72 cm²

12.



In the figure, PQR, QST and SPU are straight lines. Which angle is equal to $\angle b + \angle c$?

- (1) ∠f
- (2) ∠e
- (3) ∠a
- (4) ∠d

13. Mr Ho travelled $\frac{2}{5}$ of his journey at 80km/h. After which, he decreased his speed to 60km/h and completed the rest of the journey in 2h 15min. What was the total distance he travelled?

- (1) 45 km
- (2) 135 km
- (3) 225 km
- (4) 315 km

14. Jane gave 15% of her salary to her mother. Her mother spent 40% of the sum she was given. What percentage of Jane's salary had her mother left?

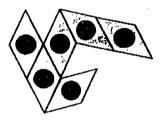
- (1) 6%
- (2) 9%
- (3) 20%
- (4) 60%

15. Xin Er made a 6-sided solid using a net. Every face of the solid is an identical rhombus as shown.

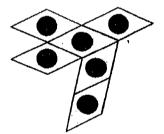


Which of the following could be the net of Xin Er's solid?





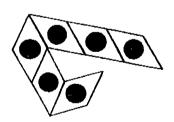
2)



3)



4)



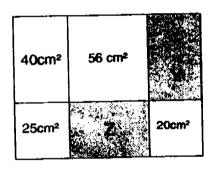
Section B: Questions 16 to 35 carry 1 mark each. Write your answers in the spaces provided on the answer sheet.

Give your answers in the units stated.

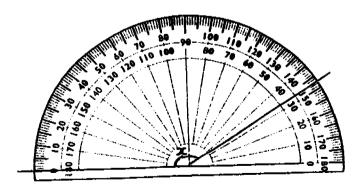
(20 marks)

- Arrange 7, 5, 9, 2 and 6 to make the greatest possible odd number.
- Mrs Goh has some sweets for her pupils. If she gives 4 sweets to each pupil, she will have14 sweets left. If she gives 5 sweets to each pupil, she will have none left. How many pupils does she have?
- 18. Find the value of $2\frac{5}{6} \frac{1}{3} + 1\frac{1}{2}$.
- 19. Write the fraction exactly halfway between $\frac{7}{9}$ and $\frac{8}{9}$ in its simplest form.
- 20. Find the value of $\frac{a^3 a}{a}$ when a = 3.
- 21. Margie had \$50. She gave \$2y to each of her 2 sons. She also gave half of what she gave to one son to her daughter. How much money had Margie left?
- 22. For every \$30 spent at a store, Mr Tan gets 2 lucky draw tickets. What is the least amount he must spend to get 20 lucky draw tickets?
- 23. The weight of a parcel was recorded as 6.4 kg, rounded off to 1 decimal place. If it weighed less than 6.4 kg, write down a possible weight of the parcel.

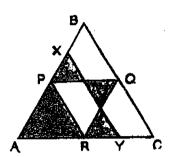
- 24. Express, as a decimal, 10 m 8 cm in metres.
- A man takes 12 seconds to cut a log into 3 equal parts. At this rate, how many seconds would he take to cut a similar log into 9 equal parts?
- 26. Along a garden path, every tree is placed 20m apart from each other. How many trees are planted along a path 160 m?
- 27. A cuboid with a square base has a capacity of 768 cm3. Its height is 12 cm. Find the length of each side of its base.
- 28. The figure below shows a rectangle divided into 6 parts. Each part has a different area. Find the total area of Y and Z.



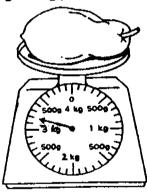
29. What is the size of angle x?



- 30. If x : y = 1:4 and x : z = 2:5, what is the ratio of x:y:z?
- 31. In the figure P, Q and R are the midpoints of the sides of the triangle ABC. X is the midpoint of PB and Y is the midpoint of RC. What percentage of this figure is shaded?



- 32. Meiqi spent an average of \$6 per day from Monday to Friday. She spent an average of \$13 on Saturday and Sunday. Find the average amount she spent per day in that week.
- 33. Look at the weighing scale below. What is the weight of the papaya? (Give your answer in kg and g.)



- 34. A fish pond was 1 km from Rick's house. Rick took 20 minutes to jog from his house to the fish pond and back again. What was his average jogging speed?
- 35. The average age of Susan and Pat is 14. If Susan is 6 years older than Pat, find Susan's age.

END OF PART 1

Section C:	For questions 36 to 50, show your working clearly in the space below 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.
	(55marks)

36. A refrigerator cost \$988. Angela had \$500. If she saved \$50 each month, what would be the least whole number of months she needed to save enough to buy the refrigerator?

Answer:	•	1 2	1	ĺ
Answei.		L <u>~</u>	٠,	l

37. Jolene bought 6 kg of sugar. 0.15 of this amount was given away and the remainder was packed equally into 30 packets. What was the weight of each packet in grams?

Answer:	 [2]

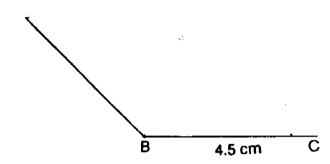
38. Ailing's allowance is $\frac{3}{4}$ of Erin's. Bryan's allowance is $\frac{2}{3}$ of Ailing's. If Erin's allowance is \$64, what is Bryan's allowance?

Answer:______[3]

39. 1 kg of prawns cost as much as 1.5 kg of crabs. Amy paid \$126 for 2 kg of prawns and 6 kg of crabs. What was the cost of 1 kg of prawns?

Answer : ____ [3]

(40. a) Draw a rhombus ABCD in which BC = 4.5 cm and \angle BCD = 45°.



b) Measure ∠ABD.

Answer	: a)	Drawing	[2]
/11/34VC1	. c.,	Drawing	1 - 1

b) _____ __[1]

41. Mrs Koh had apples and oranges in the ratio 2:1. After she bought another 15 apples and 60 oranges, the ratio of the number of oranges to the number of apples became 2:1. How many oranges had Mrs Koh at first?

Answer:______[3]

42. NTUC sells 2 brands of groundnuts, A and B.

88°	<i>} }}</i>			
4 00 g	500 g			
Brand A	Brand B			
\$2.50	\$3 .50			

a) What is the price per kg of Brand B groundnuts?

b) Mrs Tan wants to buy a cértain amount of groundnuts. She will save \$5.25 by buying Brand A instead of Brand B. What is the amount of groundnuts that Mrs Tan wants to buy? (Give your answer in kg)

Answer: a)[1]
b)[3]

- 43. Ruth and Julia went shopping with \$188. After Ruth had spent $\frac{3}{5}$ of her money and Julia had spent \$23, Ruth found that the amount she had left was $\frac{1}{3}$ of what Julia had left.
 - a) How much money had Julia at first?
 - b) What percentage of Julia's money was left? (Round off your answer to 1 decimal place)

Answer:	a)	 3]
	-		

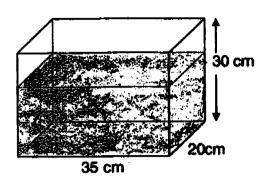
44. The table below shows the booking fees charged by a taxi company.

	Fes
Current booking Monday to Saturday	\$3.20
Advance Booking Monday to Saturday	\$5.20

Jimmy earned a total of \$81.20 from booking fees over some days. If he had twice as many current bookings as advance bookings, how many current bookings did he receive?

Answer:	 [4	}	

45.



The tank above is $\frac{4}{5}$ filled with water. When 28 identical metal cubes are put into the tank, the water level rises to 29 cm.

- a) Find the volume of water in the tank.
- b) What is the length of each side of the cube?

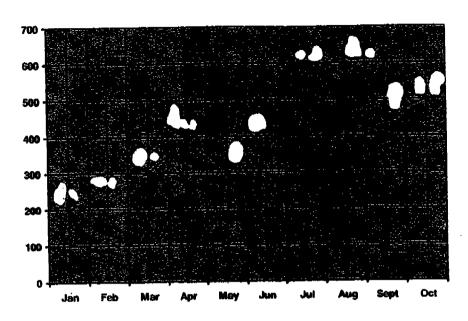
Answer	a`	1	ſ	1	1
CIBREL	OL,		-	•	

46. The ratio of Peng's money to Cleo's money was 6:1. After Peng gave \$12 to Cleo, the ratio of his money to Cleo's money became 3:1. How much money did Peng have at first?

Answer: _____[4]

17

47. The line graph shows the amount of money earned by a stallholder for the first 10 months of the year.



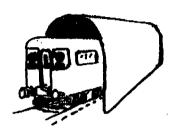
a) What was the total amount of money collected from January to June?

A	_	۵۱		г	1	ı	
Answer	:	a)		L	1	Т	

b) If the amount of money made for the second half of the year was 80% more than that for the first half of the year, find the total amount collected in November and December.

Answer	· h	1	[3]	ı
Aliswei		· — —	ι 🗸 .	I,

48. A goods train 200m long has to travel through a tunnel which is 300m long. The train is moving at 60 km/h. For how many seconds is the whole train in the tunnel?



	_	 •	_	1
Answer	•	 1	0	- 1
,	•			•

19

- 49. Mala earned a fixed monthly salary. In November she saved 40% of it. In December she saved 75% more than what she saved in November. Her total savings for the 2 months is \$935.
 - a) What was her monthly salary?
 - b) How much more money did she spend in November?

Answer	:	a)	 	 [3]
, .,	•	,	 	 -	•

- 50. Harish put aside one 20-cent coin as her savings on the first day. The next day she put aside three 20-cent coins as her savings. Each day she put aside two 20-cent coins more than the previous day.
 - a) Complete the table below.

1	1	1
2	3	4
3		
4		
5		

[2]

b) How many 20-cent coins did Harish save on the 25th day?

Answer		b)	ı	ſ	2	,
/ W 10 TT (1	•	~,		2	-	

c) When Harish had saved 121 coins altogether, what day would it be?



Remember to check your work! Every mark counts.

Answer	:	c)		ľ	1]
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MAHA BODHI SCHOOL 2005 SEMESTRAL ASSESSMENT 1 MATHEMATICS PRIMARY SIX

1) 2 28) 67 2) 1 29) 147 3) 3 $30)\ 2:8:5$ 4) 4 31) 43.75 5) 2 32) 8 6) 3 33) 3 kg 200 g 7) 1 34) 6 8) 3 35) 17 9) 4 36) 10 10) 3 37) 170 g 11) 4 38) \$ 32 12) 2 39) \$ 21 13) 3 14) 2 41) 10 oranges 15) 1 42) a) \$ 7 b) 7 kg 16) 97625 43) a) \$ 113 b) 79.6% 17) 14 44) 14 18) 4 45) a) 16800 cm b) 5 cm 19) 5/6 46) \$ 96 20) 8 47) a) \$ 1800 b) \$ 1140 21) \$(50-5y) 48) 6 seconds 22) \$ 300 49)a) \$ 850 b) \$ 255 23) 6.39 50) a) 5 9 24) 10.08 7 16 25) 48 9 25 b) 49 coins c) 11 26) 9

27) 8