RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 2
2010

Your Score Out of 100 marks		
	Class	Level
Highest score		
Average score		
Parent's Signature		

Name : _____ ( ) Class: P3__

27 Oct 2010 MATHEMATICS Att: 1 h 45 min

SECTION A (40 marks)

Question 1 to 20 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). Write your answer (1, 2, 3 or 4) in the brackets provided.

1. Which of the following is 100 more than 2099?

   (1) 2299

   (2) 2199

   (3) 2109

   (4) 2100 ( )

2. Find the sum of 683 and 219.

   (1) 464

   (2) 476

   (3) 892

   (4) 902 ( )

3. 2 m 4 cm = _____ cm.

(1) 24

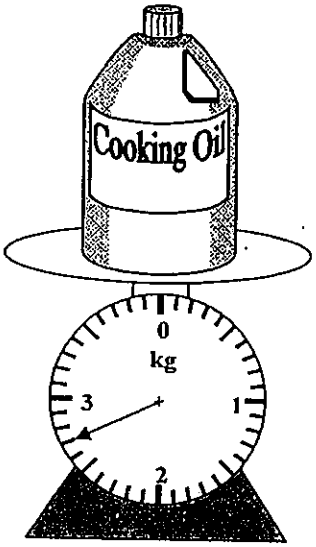
(2) 204

(3) 240

(4) 2040

( )

4.



What is the mass of the container of cooking oil?

(1) 2 kg 7 g

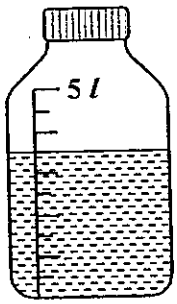
(2) 2 kg 70 g

(3) 2 kg 700 g

(4) 2 kg 7000 g

( )

5.



How much water is in the bottle?

(1) 1 ℓ 50 mℓ

(2) 1ℓ 500 mℓ

(3) 3ℓ 50 mℓ

(4) 3ℓ 500 mℓ ( )

6 Ali has 4 one-dollar coin, 2 two-dollar notes and 5 five-dollar notes.
How much does he have altogether?

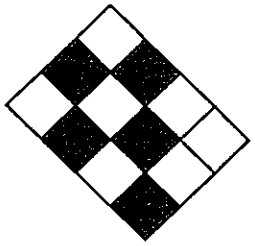
(1) $ 8

(2) $ 11

(3) $ 24

(4) $ 33 ( )

7. The rectangle below is divided into equal parts. What fraction of the rectangle is **not shaded**?



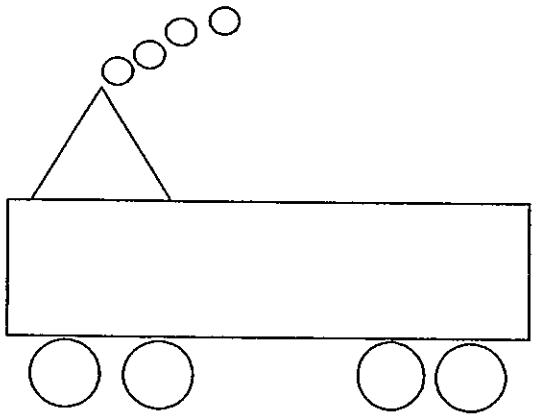
(1) $\frac{5}{7}$

(2) $\frac{5}{12}$

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

(4) $\frac{7}{12}$ ( )

8. The picture below is made up of a triangle, a rectangle and some circles. How many pairs of parallel lines are there in the picture below?



(1) 1

(2) 2

(3) 3

(4) 4 ( )

9. Express 210 minutes in hours and minutes.

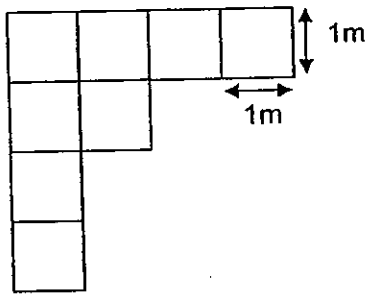
(1) 2 h 10 min

(2) 2 h 50 min

(3) 3 h 30 min

(4) 3 h 50 min ( )

10. The figure below is made up of 1-metre squares. Find the perimeter of the figure.



(1) 24 m

(2) 16 m

(3) 9 m

(4) 8 m ( )

11. Alexander sold 4645 muffins in January. Beatrice sold 370 muffins in the same month. How many more muffins did Alexander sell than Beatrice?

(1) 1352

(2) 4275

(3) 4915

(4) 5015 ( )

12. The mass of a goose is 3 kg 250 g. The goose is heavier than a duck by 900g. What is the total mass of the duck and the goose?

(1) 2 kg 350 g

(2) 4 kg 150 g

(3) 5 kg 600 g

(4) 7 kg 400 g ( )

13. Fatimah bought 7 files at $3 each and 2 pens at $1.50 each. She gave the cashier a $50 note. How much change did she get back?

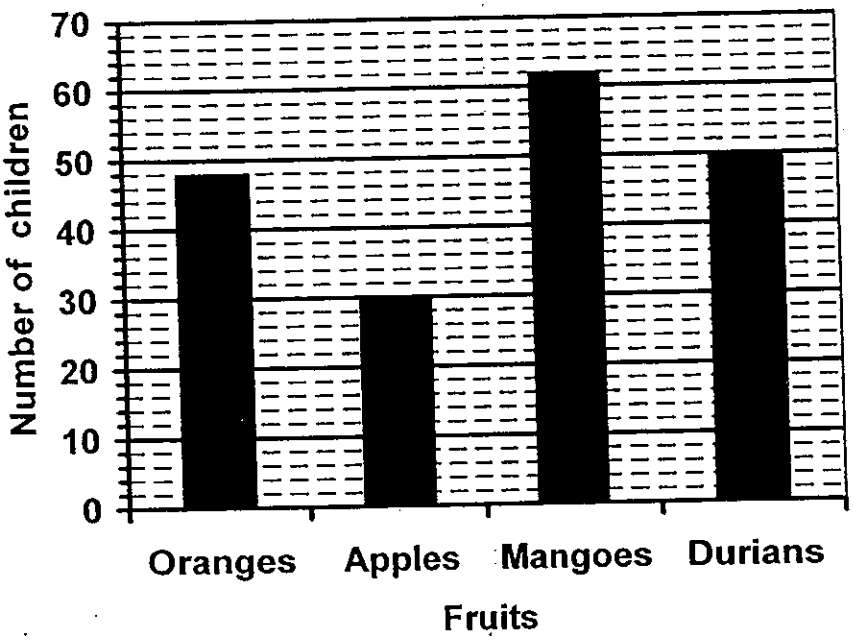
(1) $ 24

(2) $ 26

(3) $ 44

(4) $ 45.50 ( )

14. The bar graph below shows the type of fruits that the children like.



From the graph above, how many more children like mangoes than apples?

1) 12

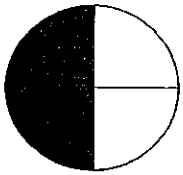
2) 18

3) 20

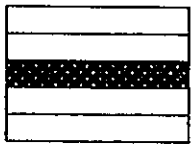
4) 32 ( )

15. Which figure shows that $\frac{2}{5}$ of it is shaded?

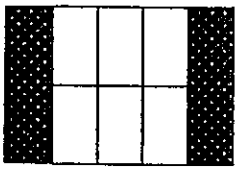
(1)



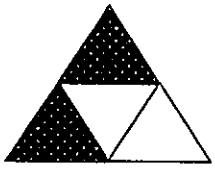
(2)



(3)



(4)



( )

16. 20 minutes to 6 in the evening is the same as _____.

(1) 5.40 a.m.

(2) 6.20 a.m.

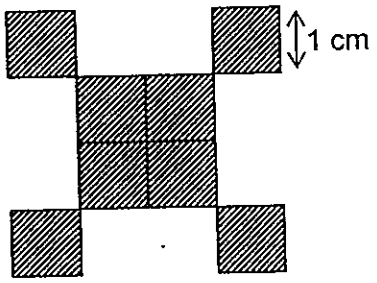
(3) 5.40 p.m.

(4) 6.20 p.m.

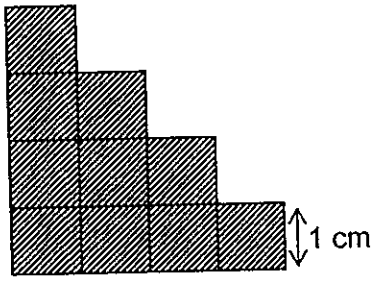
( )

17. The shaded figures below are made up of 1-cm squares.
Which of the following shaded figures has the **greatest** perimeter?

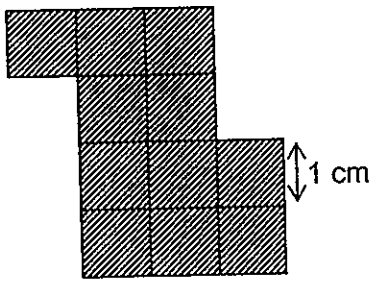
(1)



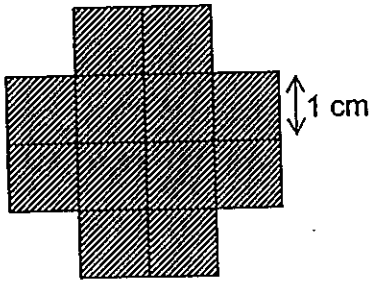
(2)



(3)



(4)



( )

18. Kimberley and Ann had to pack 395 marbles equally into 9 boxes. How many marbles were remaining after they finished packing?

(1) 8

(2) 9

(3) 43

(4) 44 ( )

19. Clarissa sat down to watch a movie at 1 p.m. The movie only started 15 minutes later and ended at 3.20 p.m. How long was the movie?

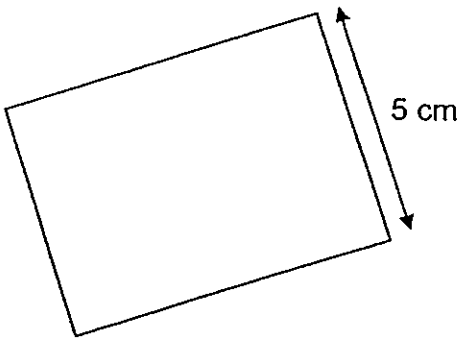
(1) 2 h 5 min

(2) 2 h 20 min

(3) 3 h 35 min

(4) 4 h 35 min ( )

20. The area of rectangle below is 75 cm^2.
Find the perimeter of the rectangle.



(1) 15 cm

(2) 20 cm

(3) 40 cm

(4) 80 cm ( )

SECTION B (40 marks)

Question 21 to 40 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. All diagrams are not drawn to scale. Answers in fractions must be expressed in the simplest form. Marks will be awarded for relevant working.

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21. The digit '3' in 5397 stands for _____.

Ans: _____

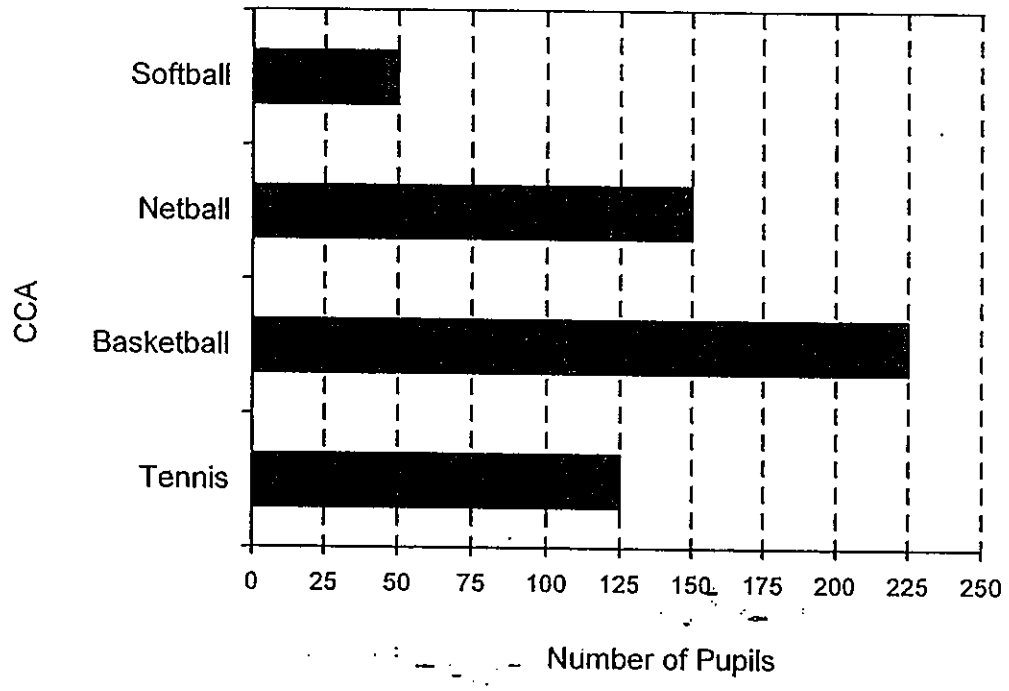
22. Find the difference between 4368 and 8104.

Ans: _____

23. Find the product of 4 tens and 245.

Ans: _____

The following graph shows the type of ball games which the pupils from East Hill Primary School have chosen as their CCA.
Use the graph below to answer **Questions 24 and 25.**



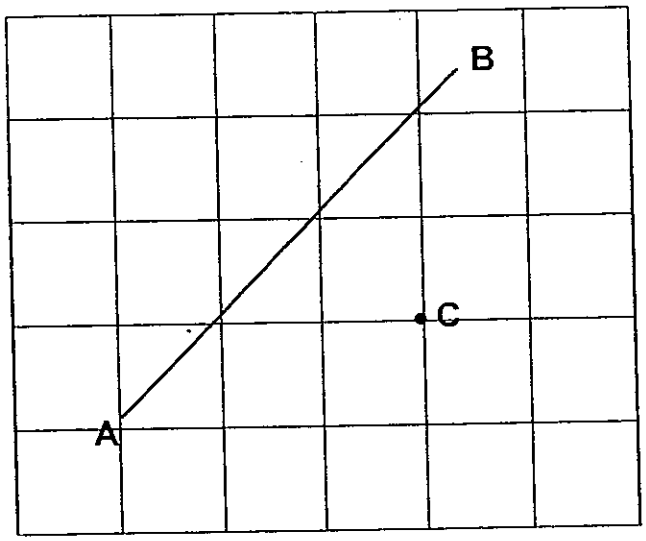
24. Which is the most popular CCA in East Hill Primary School?

Ans: _____

25. Which CCA has thrice as many pupils as Softball?

Ans: _____

26. Draw a line that is perpendicular to line AB and passing through point C.



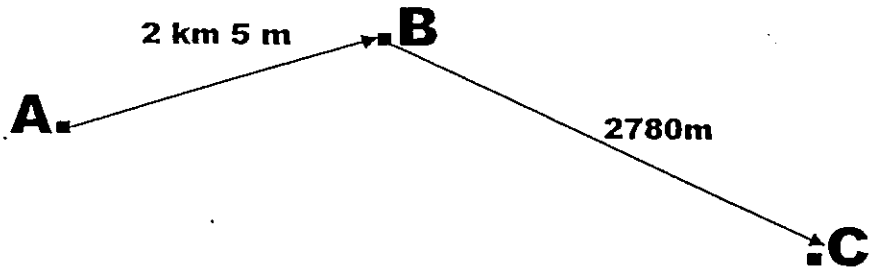
27. A rectangle has a length of 19 cm and width of 8 cm.
What is the area of the rectangle?

Ans: _____ cm^2

28. Form the smallest even number using the digits 9, 8, 4, 3.
Write your answer in words.

Answer: _____

29. Susan travelled from Housing Estate A to Housing Estate B and then to Housing Estate C. Find the total distance she travelled.
Give your answer in kilometres and metres.

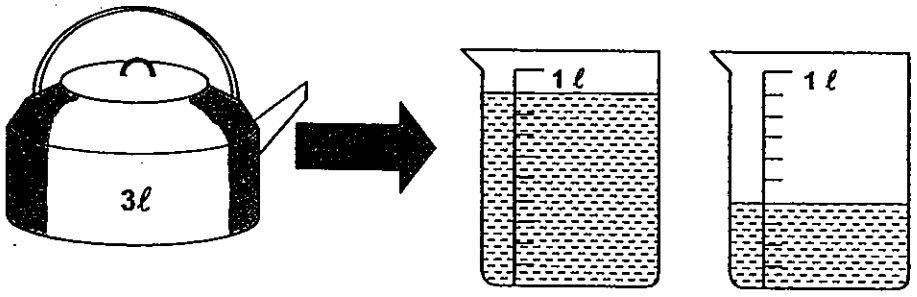


Ans: _____km _____ m

30. Ali has a mass of 45kg 350g now. Last year, his mass was 42kg 800g.
How much mass did he gain this year?

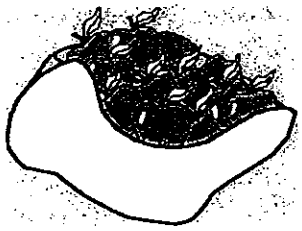
Ans: _____kg _____ g

31. A kettle contained 3ℓ of water at first. Siti poured some water from the kettle into the beakers shown. What was the volume of water left in the kettle?

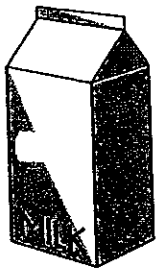


Ans: _____ ml

32. Mrs Tan wants to buy 1 carton of milk and 2 bags of apples. She only has $10. How much more money does she need?



1 bag for $3.50



1 carton for $5.40

Ans: $ _____

33. Arrange the following fractions in descending order.

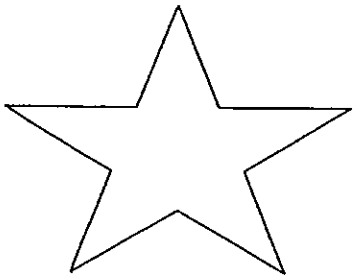
$$\frac{1}{2}, \frac{5}{8}, \frac{3}{10}$$

Ans: _____, _____, _____

34. Mrs Goh cut a cake into 8 equal pieces. She ate $\frac{1}{4}$ of it. Her son and daughter had 2 pieces each. What fraction of the cake was left?

Ans: _____

35. In the figure below, how many angles within the star are larger than a right angle?



Ans: _____

36. The numbers in the magic square below add up to the same number in any direction. What is the value of A?

B	A	8
5	7	9
6	C	4

Ans: _____

37. Mary has 1264 stamps. Her father gives her another 739 stamps.

(a) How many stamps does she have now?

(b) If Mary gives 450 stamps to each of her 2 brothers, how many stamps has she left?

Answer: a) _____

b) _____

38. The total cost of 3 blouses and 2 skirts is $151. The total cost of 2 blouses and 2 skirts is $126. Find the cost of 2 blouses.

Ans: $ _____

39.

Menu for McRaffles Café

Drinks (per cup)	Food (per plate)
Milo ~ $0.60	Mee Goreng ~ $0.70
Soya bean ~ $0.40	Mash potatoes ~ $0.50
Grape juice ~ $0.50	Fried rice ~ $0.80

Si Hui had $2 before the recess.
After buying a cup of drink and a plate of food from the McRaffles Café during recess, she was left with 60 cents.
What drink and food did Si Hui buy?

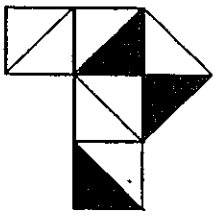
Ans: **Drink** : _____

Food : _____

40. The figure below is made up of identical triangles.

Pooja wants to shade $\frac{4}{5}$ of the figure.

How many **more** such triangles must she shade?



Ans: _____

SECTION C (20 marks)

For question 41 to 46, show your working clearly in the space provided below each question and write your answer with suitable units in the spaces provided. All diagrams are not drawn to scale. Answers in fractions must be expressed in the simplest form. Marks will be awarded for relevant working. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

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41. A farmer harvested 500 oranges. He threw away 22 rotten ones and packed the rest equally into 8 cartons and had 30 oranges left. How many oranges were there in 1 carton?

Ans: _____ [3]

42. The table below shows the timetable for a shuttle bus that leaves an estate for Orchard MRT station.

Leaves estate	Arrives at Orchard MRT station
12.45 p.m.	1.02 p.m.
1.45 p.m.	2.02 p.m.
2.45 p.m.	3.02 p.m.

(a) According to the timetable, how many minutes does the shuttle bus take to travel from the estate to Orchard MRT station?

(b) Lina just missed the shuttle bus that left the estate at 12.45 p.m. What is the **earliest** possible time that she can arrive at Orchard MRT station by the shuttle bus?

Ans: (a) _____ [2]

(b) _____ [1]

43. A rope is 26 m long. A stick is half as long as the rope while a rod is 5 times as long as the stick. What is the length of the rod?

Ans: _____ [3]

44. A car has 4 wheels and a motorcycle has 2 wheels. There are 32 vehicles and 104 wheels in the car park. How many cars are there in the carpark?

Ans: _____ [3]

45. Lily had some red, yellow and blue marbles. There were 18 blue marbles. Half of the marbles were yellow and $\frac{1}{3}$ of them were red.

a) How many marbles does she have in total?
b) Lily later gave some red marbles to her brother, and was left with equal number of red and blue marbles. How many red marbles did Lily's brother get?

Ans: (a) _____ [3]

(b) _____ [1]

46. Everyday Beatrice puts $4 into her coin bank. With every $28 she puts into her coin bank, her parents will put in another $2. In how many days will she have $150 in her coin bank?

Ans: _____ [4]

-End of Paper-
Please check your work carefully ☺

Setters: Tan CP & S Kong

P3 SA2 2010 Answer Key

SECTION A: MCQ (2 marks each)

Q1	2	Q6	4	Q11	2	Q16	3
Q2	4	Q7	4	Q12	3	Q17	1
Q3	2	Q8	2	Q13	2	Q18	1
Q4	3	Q9	3	Q14	4	Q19	1
Q5	4	Q10	2	Q15	3	Q20	3

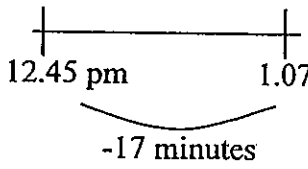
SECTION B: Short Answers (2 marks each)

Correct Method and Correct Answer	**2 marks**
Correct Answer with no working	**2 marks**
Correct Method but Wrong Answer	**Award M1 accordingly**
Correct Answer but Wrong Method	**0 mark**

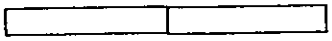
21	300 (A2) 3 hundred (A2)	31	3000 – 900 – 400 = 1700 (M1, A1)
22	8104 – 4368 = 3736 (M1, A1)	32	$5.40 + $7 = $12.40 $12.40 – $10.00 = $2.40 (M1, A1)
23	245 x 4 = 980 980 x 10 = 9800 (M1, A1)	33	$\frac{5}{8}, \frac{1}{2}, \frac{3}{10}$ (deduct 1m if equivalent fractions are written)
24	Basketball (A2)	34	$\frac{8}{8} - \frac{1}{4} - \frac{4}{8} = \frac{1}{4}$ (M1, A1) $\frac{2}{8}$ or equivalent answers are accepted
25	Netball (A2)	35	5
26	Deduct M1 if missing right-angled symbol **and/or** line drawn did not pass through point C	36	21 – 10 – 8 = 3 (M1, A1) **or** 21 – 11 – 7 = 3 (M1, A1)
27	19 x 8 = 152 (M1, A1)	37	a) 2003 (A1) b) 1103 (A1)
28	3498 (M1) *Three thousand, four hundred and ninety-eight (A1) ***(-M½ for spelling mistake; -M½ for addition of 's' behind thousand and/or hundred, -M½ for missing word 'and')**	38	1 blouse → $151 - $126 = $25 2 blouses → $25 x 2 = $50 (M1, A1)
29	2005 + 2780 = 4785 (M1) 4 km 785 m (A1)	39	Drink: Milo (A1) Food: Fried Rice (A1)
30	45 350 – 42 800 = 2 550 (M1) Ans: 2 kg 550 g	40	8- 3 = 5 [M1, A1] award M1 if working $\frac{8}{10} - \frac{3}{10} = \frac{5}{10}$ is shown

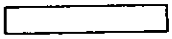
SECTION C

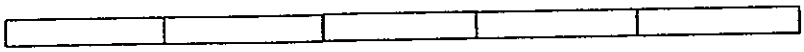
Marking Scheme
For all questions: • Award A1 for correct answer with no method shown. • Award A mark for clear transfer error to answer space by pupil. Indicate on the answer script "transfer error". • Award M mark(s) according for correct method or followed-through computation error with wrong answer. Indicate the M mark(s) on the answer script accordingly. • No marks will be awarded for correct answer with wrong method. Indicate on the answer script "wrong method". • Deduct 1 mark from the total M mark(s) awarded if there is a *misread per question. No A mark will be awarded for this case. (*misread: clear numerical transfer error from the question to the working statement) • Deduct a maximum ½ mark per question for incorrect or missing required unit in final answer.
For 4-mark and 5-mark questions: • Deduct a maximum of ½ mark per question if there is an incorrect mathematical statement at the "M mark(s) awarded" step

41	500 - 22 - 30 = 448 [M1] 448 ÷ 8 = **56** [M1,A1]
42	a)  [M1, Ans: **17 min** [A1] b) **2.02 pm** [A1]

43

Rope 

Stick 

Rod 

Stick : $26 \div 2 = 13$ m [M 1]
Rod : $13 \times 5 =$ **65 m** [M 1, A1]

44

	No of motorcycles	No of cars	Total no. of people	
1	16	16	16x2 + 16 x 4 = 96	x
2.	14	18	14 x 2 + 18 x 4 = 100	x
3.	12	20	12 x 2 + 20 x 4 = 104	√

M1 for correct interpretation of information in computation
M1 for the correct final step
A1 for correct answer

Calculation Method (By supposition)

All Cars	All Motorcycles
32 x 4 = 128 128 – 104 = 24 [M1] 4 – 2 = 2 24 ÷ 2 = 12 [M1] 32 – 12 = **20** [A1]	32 x 2 = 64 104 – 64 = 40 [M1] 4 – 2 = 2 40 ÷ 2 = **20** [M1, A1]

45

Yellow	Yellow	Yellow	Red	Red	

18

a) 1 unit → 18 [M1]
6 units → 18 x 6 = **108** [M1, A1]

OR

6 x 18 = **108** [M2, A1]

b) **18** [A1]

46	$28 ÷ 4 = 7 [M1] $28 + $2 = $30 $150 ÷ $30 = 5 [M1] 5 x 7 days = **35 days** [M1, A1] OR *Using of table* M2 for correct interpretation of information in computation M1 for the correct final step A1 for correct answer