

RAFFLES GIRLS' PRIMARY SCHOOL



SEMESTRAL ASSESSMENT (2)

2005

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

Name: _____ Class: P 5 _____ Index No.: _____

26 OCTOBER 2005 MATHEMATICS ATT: 2 h 15 min

Section A (20 marks)

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) and shade the correct oval in the Optical Answer Sheet.

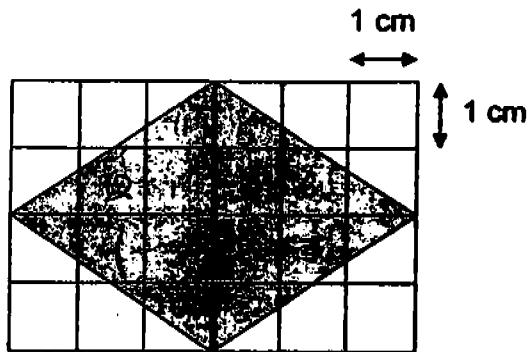
1. Round off 43.785 to 2 decimal places.

- (1) 43.77
- (2) 43.78
- (3) 43.79
- (4) 44.00

2. Express $3\frac{1}{8}$ as an improper fraction.

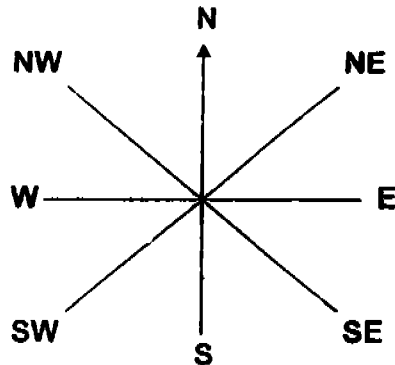
- (1) $\frac{12}{8}$
- (2) $\frac{23}{8}$
- (3) $\frac{25}{8}$
- (4) $\frac{27}{8}$

3. What is the area of the shaded figure?



- (1) 8 cm²
- (2) 10 cm²
- (3) 12 cm²
- (4) 14 cm²

4. The diagram below shows an eight-point compass.
Mary is facing northeast now.
If she turns 225° clockwise, where will she be facing?



- (1) SE
- (2) S
- (3) SW
- (4) W

5. Express 50 m as a percentage of 1 km.

- (1) 2%
- (2) 5%
- (3) 50%
- (4) 5000%

6. Express $2\frac{3}{5}$ as a decimal.

- (1) 2.3
- (2) 2.35
- (3) 2.5
- (4) 2.6

7. Arrange the following fractions in descending order.

$$\frac{5}{8}, \frac{1}{4}, \frac{2}{3}, 1\frac{1}{3}$$

- (1) $1\frac{1}{3}, \frac{2}{3}, \frac{5}{8}, \frac{1}{4}$
- (2) $1\frac{1}{3}, \frac{2}{3}, \frac{1}{4}, \frac{5}{8}$
- (3) $\frac{1}{4}, \frac{5}{8}, \frac{2}{3}, 1\frac{1}{3}$
- (4) $\frac{5}{8}, 1\frac{1}{3}, \frac{2}{3}, \frac{1}{4}$

8. An overseas call to Hong Kong from Singapore is charged at \$0.70 per minute. May made the call and spoke for an hour and a half. How much was her bill?

- (1) \$ 21
- (2) \$ 42
- (3) \$ 63
- (4) \$105

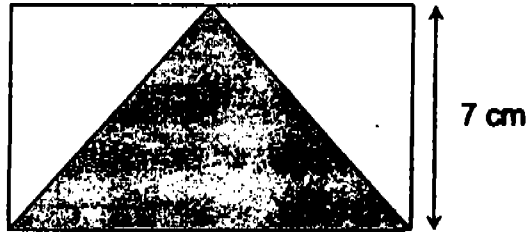
9. The total height of three pupils is 4.2 m. The height of a fourth pupil is 1.08 m. What is the average height of the children?

- (1) 1.32 m
- (2) 1.76 m
- (3) 1.50 m
- (4) 5.28 m

10. Which of the following is the best estimate for 66×74 ?

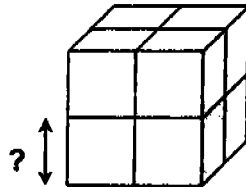
- (1) 65×70
- (2) 65×75
- (3) 70×70
- (4) 70×75

11. The rectangle below is not drawn to scale.
The breadth of the rectangle is 7 cm. Its perimeter is 38 cm.



Find the area of the shaded triangle.

- (1) 28 cm²
 - (2) 42 cm²
 - (3) 84 cm²
 - (4) 133 cm²
12. The solid below is made up of 8 identical cubes.



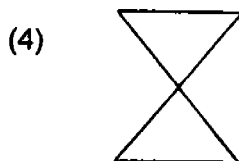
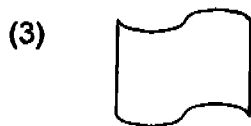
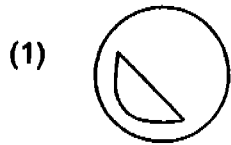
The volume of the solid is 64 cm³.
Find the length of one side of each cube.

- (1) 6 cm
- (2) 2 cm
- (3) 8 cm
- (4) 4 cm

13. A sum of money is shared between Xavier and Zen in the ratio 2 : 5.
If Zen receives \$12.50, what is the amount of money Xavier received?

- (1) \$45
- (2) \$ 9
- (3) \$ 5
- (4) \$ 4

14. Which of the following shapes has no lines of symmetry?



15. Which number is a factor of 30 and 45?

- (1) 6
- (2) 10
- (3) 15
- (4) 30

NAME : _____

DATE : _____

CLASS : _____

WRITE		SHADE OVALS									
INDEX NUMBER	1					5	6	7	8	9	
	2						6	7	8	9	
	3	0	1	2	3	4	5	6	7	8	9
	4	0	1	2	3	4	5	6	7	8	9
	5	0	1	2	3	4	5	6	7	8	9
	6	A	B	C	D	E	F	G	H	I	J

SUBJECT :

EXAMPLE: IF YOU THINK
THE 2ND OPTION IS THE
CORRECT ANSWER SHADE
THE OVAL 2 LIKE THIS :

1 ● 3 4

- 1 (1) (2) ● (4)
- 2 (1) (2) ● (4)
- 3 (1) (2) ● ●
- 4 (1) (2) (3) ●
- 5 (1) ● (3) (4)
- 6 (1) (2) (3) ●
- 7 ● (2) (3) (4)
- 8 (1) (2) ● (4)
- 9 ● (2) (3) (4)
- 10 (1) ● ● (4)
- 11 (1) ● (3) (4)
- 12 (1) ● (3) (4)
- 13 (1) (2) ● (4)
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- 58 (1) (2) (3) (4)
- 59 (1) (2) (3) (4)

Name: _____

Class: P5 _____ Index No.: _____

Section B (30 marks)

Questions 16 to 25 carry 1 mark each.

Write your answers in the spaces provided.

Give your answers in the units stated.

16. Arrange the following numbers in ascending order.

6.20³3 , 6.0²3 , 6.0³2 , 6.23

17. Find the value of 48.05×9 .
(Express your answer to 2 decimal places)

Answer: _____

18. $\ln \frac{\square}{20} + \frac{3}{4} = 1$.

what is the missing number in the box?

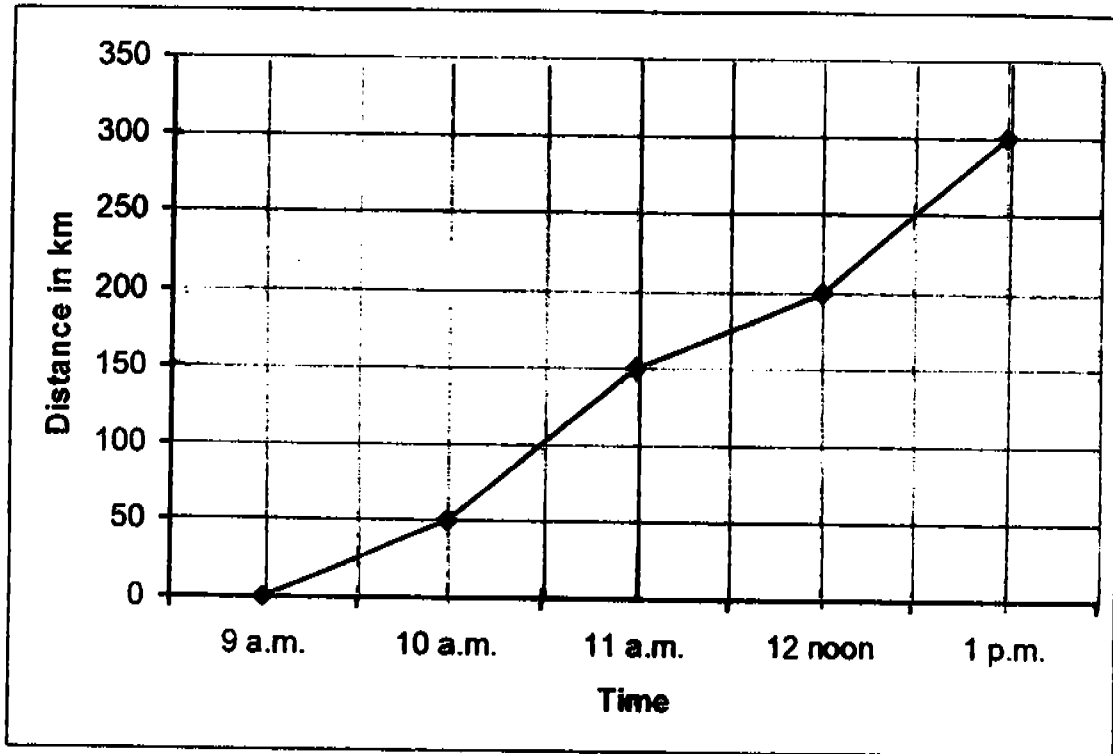
Answer: _____

19. Find the value of $\frac{1}{4} \div 6$.

Answer: _____

36

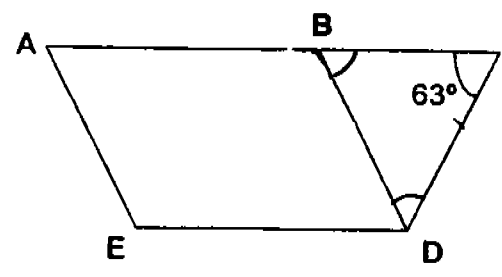
20. The graph below shows the journey taken by a driver travelling from his home to town.



How far away from home was the driver two hours after leaving home at 9 a.m.?

Answer: _____ km

21. ACDE is a trapezium.
BCD is an isosceles triangle.
 $\angle BCD = 63^\circ$ and $BD = CD$.
Find $\angle ABD$.



Answer: _____ °

22. Lillian saved an average of \$425 a month.

How much money did she save in $2\frac{3}{4}$ years?

Answer: \$ _____

23. Susie distributed part of her salary in the ratio 4 : 5 : 2 for food, transport and savings respectively.

What fraction of the money was her savings?

Answer: _____

24. A bricklayer lays 300 bricks in 3 hours.

How many bricks can he lay in $\frac{1}{4}$ h?

Answer: _____ bricks

25. Work out the following sum.

$$5 + 45 \div 3 \times 0 + 2 \div 2$$

Answer: _____

38

Name: _____

Class: P5 _ _

Index No.: _____

Questions 26 to 35 carry 2 marks each.

Write your answers in the spaces provided.

Give your answers in the units stated.

26. John scored 64 marks in a test. His friend, Ali, scored 72 marks.

Express John's marks as a percentage of Ali's marks.

Give your answer to the nearest whole number.

Answer: _____ %

27. A red rod measures 2.74 m while a green rod measures 1.56 m.

Find the total length of the two rods in centimetres.

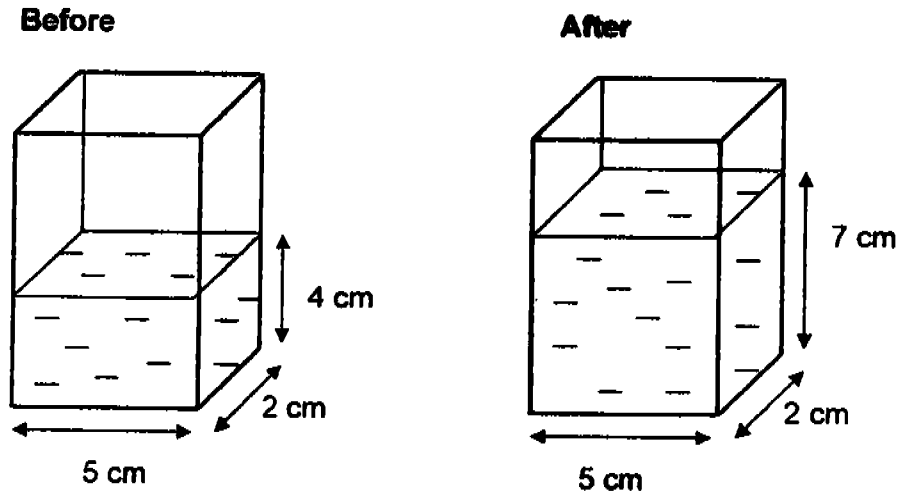
Answer: _____ cm

28. Express $3\frac{5}{9}$ as a decimal, correct to 2 decimal places.

Answer: _____

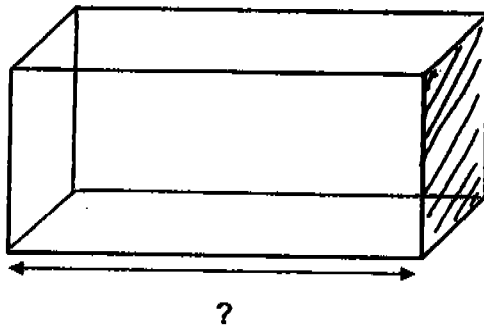
39

29. The tank below has a base of 5 cm and a width of 2 cm.
 The water-level was 4 cm at first.
 After some water was poured into the tank, the height increased to 7 cm.
 Find the volume of the water poured into the tank.



Answer: _____ cm³

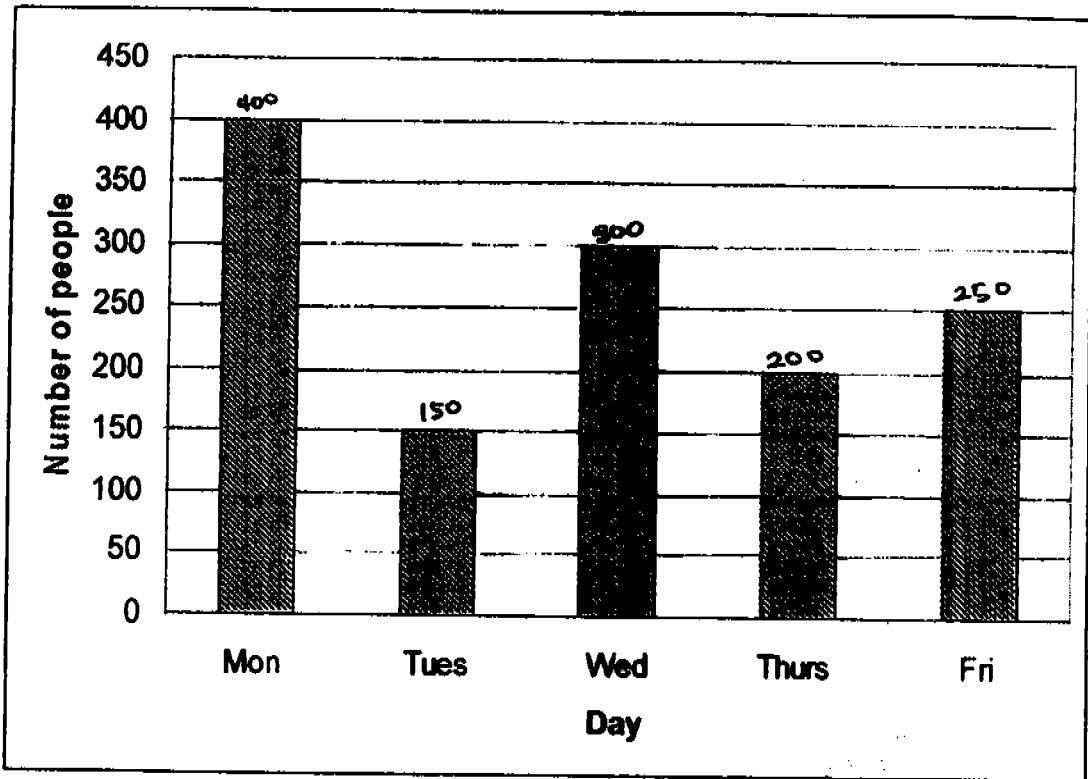
30. The volume of the box shown below has a volume of 231 cm³.
 If the shaded area of the box is 21 cm², find the length of its base.



Answer: _____ cm

40

31. The graph below shows the number of people who visited Snow City in the 5 days.



- a) If the entrance fee for each visitor was \$12, how much money was collected on the day with the least number of visitors?
- b) What was the average number of visitors for the five days?

Answer: a) \$ _____

b) _____ people 4/

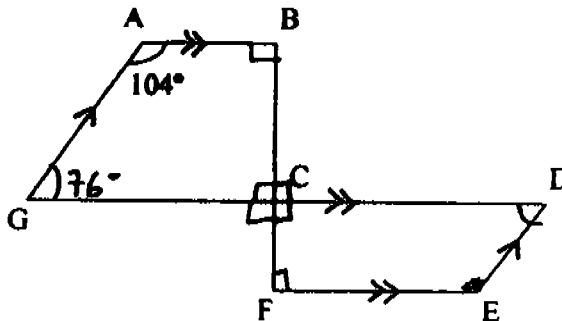
32. ? The figure below is not drawn to scale.

\overline{FCB} is perpendicular to \overline{BA} , \overline{DCG} and \overline{EF} .

\overline{AG} is parallel to \overline{DE} . \overline{DCG} is parallel to \overline{BA} and \overline{EF} .

$\angle BAG = 104^\circ$.

Find $\angle DEF$.



Answer: _____ °

33. Betty's salary was $\frac{4}{5}$ of Angie's salary.

If Angie's salary was \$2000,

what was the average salary of the two girls?

Answer: \$ _____

42

34. Which 2 unit shapes given here can tessellate?
Write their letter names on the line provided.



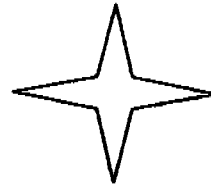
a



b



c



d

Answer: _____

35. Study the number pattern carefully.

Pattern	Number sentence	Answer
1	$111 \div 37$	3
2	$222 \div 37$	6
3	$333 \div 37$	9

What is the answer for the 6th pattern?

Answer: _____

43

36. Jolin had to multiply 2.85 by 3. She added the two numbers instead. What was the difference between her answer and the actual answer?

Ans : _____

37. Charmaine has the same number of ten-cent coins as she has fifty-cent coins. If their total value is \$15, how many coins does Charmaine have altogether?

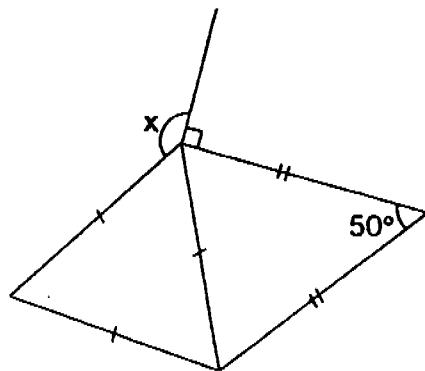
Ans: _____

15

38. Alice had some stamps. She gave $\frac{5}{9}$ of the stamps to her cousin. The remaining stamps were shared equally between her two brothers with each receiving 16 stamps. How many stamps had Alice at first?

Ans: _____

39. The figure below is made up of an isosceles triangle and an equilateral triangle. Find $\angle x$.



Ans: _____

40. Sam paid \$64 for 5 similar files and 3 similar textbooks. A textbook cost \$8 more than a file. What was the cost of one textbook?

Ans: _____

41. There were 4 more boys than girls in a class of 40 children. Miss Loy collected a total sum of \$ 176 from the boys for a class party. What would be the average amount of money contributed by each boy?

Ans : _____

42. A pair of sports shoes cost \$150. During a sale, it was sold at \$120.
- (a) How much cheaper would the shoes be during the sale?
 - (b) What was the percentage discount given to consumers during the sale?

Ans : (a) _____

(b) _____

Name: _____

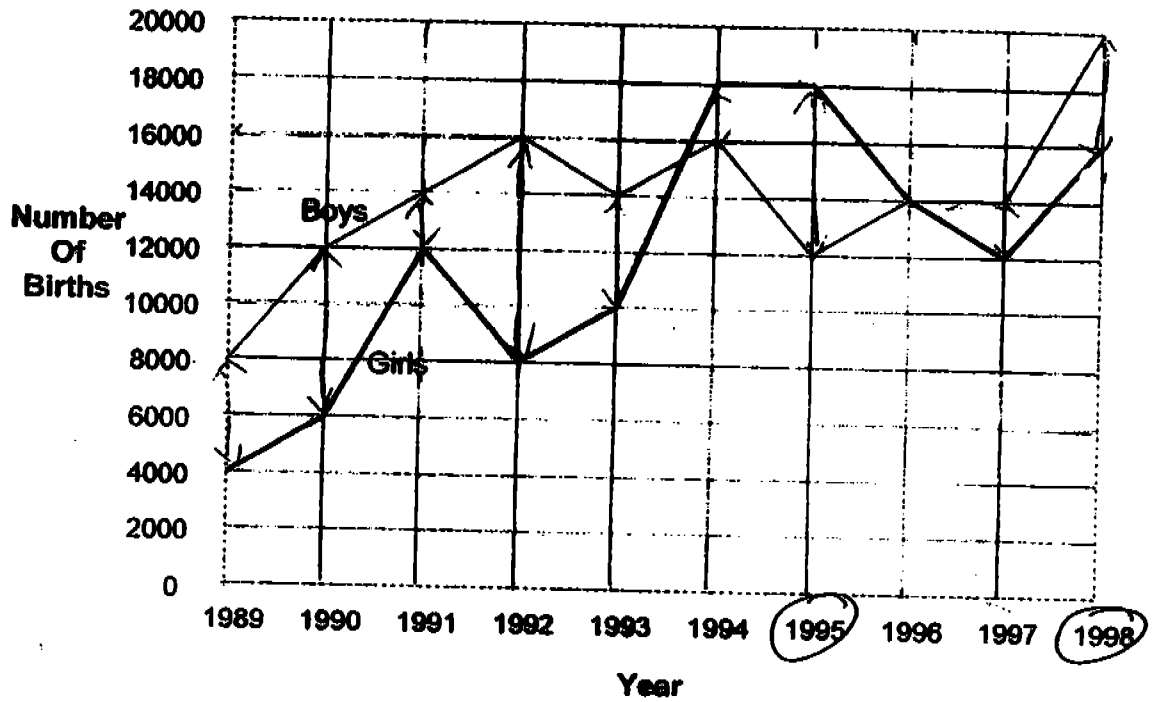
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Index No.: _____

43. Mr Johnson saves $\frac{2}{5}$ of his salary every month. He gives \$1600 from the remaining amount to his wife and the rest to his two children. If each of his children receives \$451 from him, find the amount of money Mr Johnson earns a month.

Answer: _____ [4 m]

44. The line graph shows the number of baby boys and girls born between 1989 and 1998 in a certain country.



- a) In which year was the difference the greatest between the number of baby boys and girls born?
- b) What was the average number of girls born between 1995 and 1998?

Answer: a) _____ [1m]

b) _____ [3m]

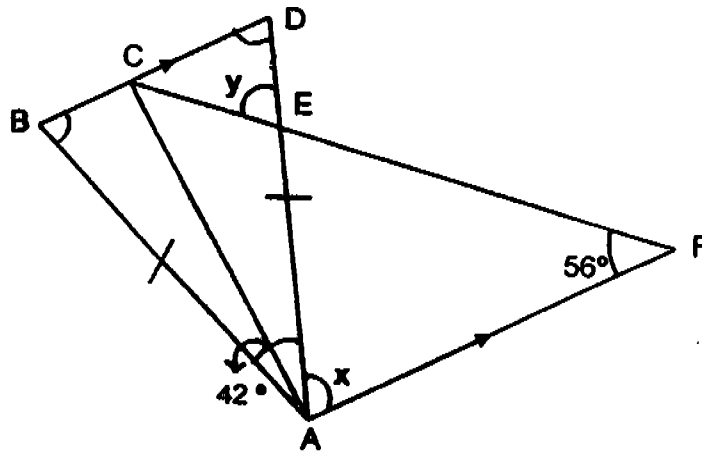
20

45. ? The figure below is not drawn to scale.

$\triangle ABD$ is an isosceles triangle. AF is parallel to BD .

$\angle BAD = 42^\circ$ and $\angle AFC = 56^\circ$.

- Find $\angle x$.
- Find $\angle y$.



Answer: a) _____ [2 m]

b) _____ [2 m]

21

46. Maggie saved \$800 in August.

In September, her savings was 40% more than the amount saved in August.

a) How much money did she save in September?

Maggie

b) ~~Mary~~ was saving up money to buy a piano which cost \$2 500.

How much more money would she still need to save after the two months?

Answer: a) _____ [2 m]

b) _____ [2 m]

47 Carol filled a container of capacity 26 l completely with 5 bottles of apple juice and 4 bottles of soda water to make soda pop for a class party.

The capacity of 1 bottle of soda water was twice the capacity of 1 bottle of apple juice.

- a) Find the capacity of 1 bottle of apple juice in litres.
- b) After the party, there was only 7.25 l of soda pop left in the container.

Find the amount of soda pop that was consumed at the party.

(Correct your answer to 1 decimal place.)

Answer: a) _____ [3 m]

b) _____ [2 m]

48. A flower vase with a square base contained 300 cm^3 of water to a height of 12 cm.
- (a) Find the length of each side of the square base.
- (b) If the height of the vase was 18 cm, how much more water would be needed to fill the vase completely?

Answer: a) _____ [2 m]

b) _____ [3 m]

-- END OF PAPER--

Setters: Lily Pook, Ann Ong, Aubrey Ong

Raffles Girls Primary School
Primary 5 Maths SA2 Exam (2005)



Answer Sheets

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

- | | |
|-------------------------------|---|
| 16. 6.023, 6.032, 6.203, 6.23 | 33. 1800 |
| 17. 432.45 | 34. b, c |
| 18. 5 | 35. 18 |
| 19. $\frac{1}{24}$ | 36. 2.7 |
| 20. 150 | 37. 50 coins |
| 21. 117 | 38. 72 stamps |
| 22. 14025 | 39. 145° |
| 23. $\frac{2}{11}$ | 40. S13 |
| 24. 25 | 41. \$8 |
| 25. 6 | 42. 20% |
| 26. 89 | 43. 4170 |
| 27. 430 | 44. a) 1992 b) 15000 |
| 28. 3.56 | 45. a) 69 b) 55 |
| 29. 30 | 46. a) 1120 b) 580 |
| 30. 11 | 47. a) 2¢ b) 8.8¢ |
| 31. a) 1800 b) 260 | 48. a) 5cm b) 150cm ³ |
| 32. 104 | |