

METHODIST GIRLS' SCHOOL (Primary)  
End-Of-Year Examination 2007  
Primary 5

# Mathematics

## Booklet A

Name: \_\_\_\_\_ (      )

Class: P 5. \_\_\_\_\_

Total time for Booklets A, B1 and B2: 2h 15 min

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DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW THE INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

28

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)

1. What is the missing number in the blank?

$$24\ 856 = 20\ 000 + 4\ 000 + \underline{\hspace{2cm}} + 50 + 6$$

- (1) 80
- (2) 800
- (3) 8 000
- (4) 80 000

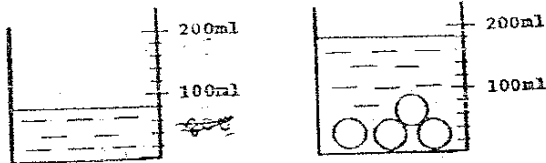
2. Evaluate  $(92 - 68 \div 4) - 15 \times 3$

- (1) 30
- (2) 39
- (3) 66
- (4) 180

3. What is the average of all the even numbers from 1 to 10?

- (1) 5
- (2) 5.5
- (3) 6
- (4) 15

4. Janet poured some water into a beaker. She then added 4 identical marbles into it. Find the volume of 1 marble. ( $1\text{ml} = 1\text{cm}^3$ )

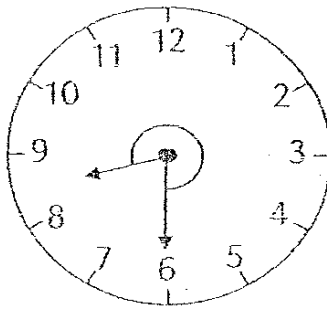


- (1)  $25\text{ cm}^3$
- (2)  $80\text{ cm}^3$
- (3)  $100\text{ cm}^3$
- (4)  $180\text{ cm}^3$

5. A printer took 3 hours to print 270 copies.  
The same printer printed 160 copies in the next 2 hours.  
Find the average number of copies the printer printed in 1 hour.

- (1) 86  
 (2) 90  
 (3) 170  
 (4) 226

6. The time shown below is 8.30 a.m. The larger angle formed by the hour and minute hands is between \_\_\_\_\_.



- (1)  $0^\circ$  and  $90^\circ$   
 (2)  $90^\circ$  and  $180^\circ$   
 (3)  $180^\circ$  and  $270^\circ$   
 (4)  $270^\circ$  and  $360^\circ$

7. Lily has 60 stamps. Meiling has 24 more stamps than Lily.  
The ratio of the number of stamps that Lily has to the number of stamps that Meiling has is \_\_\_\_\_.

- (1) 2 : 5  
 (2) 5 : 2  
 (3) 5 : 7  
 (4) 7 : 5

8. Joanne reads an average of 25 pages of a book in 1 day.  
How many pages will she read in 2 weeks?

- (1) 50  
 (2) 175  
 (3) 250  
 (4) 350

9. A machine can fill 450 bottles of soft drinks in 5 minutes.  
How many bottles of soft drinks can it fill in 3 minutes?

- ① 90
- ② 180
- ③ 270
- ④ 360

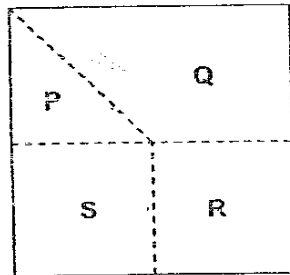
10. There were 15 girls and 25 boys in a club.  
If 10 more girls joined the club, what percentage of the children in the club are girls?

- ① 30%
- ② 37.5%
- ③ 50%
- ④ 62.5%

11. Janice has \$48. Hillary has \$16 more than Janice.  
Devi has twice as much money as Hillary.  
How much money do they have altogether?

- ① \$144
- ② \$180
- ③ \$208
- ④ \$240

12. The figure below is a square made up of four parts, P, Q, R and S.  
R and S are squares and each is  $\frac{1}{4}$  of the figure.



Which of the following two parts will add up to  $\frac{3}{8}$  of the figure?

- ① P and Q
- ② P and S
- ③ Q and R
- ④ R and S

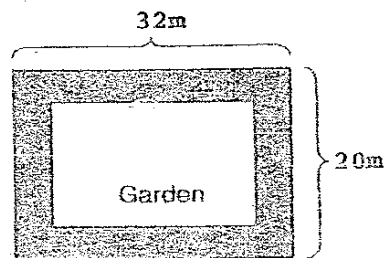
13. The table shows the parking charges at a car park.

Parking Charges	
For the first hour	\$2.00
For every additional $\frac{1}{2}$ hour	\$1.50

Mrs Lim parked her car from 9.00 a.m. to 11.30 a.m.  
How much did she pay?

- (1) \$ 3.50
- (2) \$ 5.50
- (3) \$ 6.00
- (4) \$ 6.50

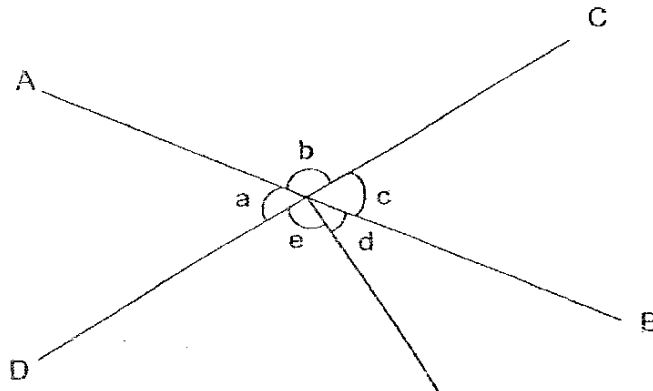
14. The garden below is surrounded by a 2-m footpath. Find the area of the garden.



- (1) 448 m<sup>2</sup>
- (2) 540 m<sup>2</sup>
- (3) 600 m<sup>2</sup>
- (4) 640 m<sup>2</sup>

27

15. AB and CD are straight lines.  
Which angle is equal to  $\angle a$ ?



- ①  $\angle b$
- ②  $\angle c$
- ③  $\angle d$
- ④  $\angle e$

METHODIST GIRLS' SCHOOL (Primary)  
End-Of-Year Examination 2007  
Primary 5

# Mathematics

## Booklet B1

Name: \_\_\_\_\_ (       )

Booklet B1 (30)	
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Class: P 5. \_\_\_\_\_

Total time for Booklets  
A, B1 and B2: 2h 15 min

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ANSWER ALL QUESTIONS.

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

16. What is seven million and sixteen thousand written in numerals?

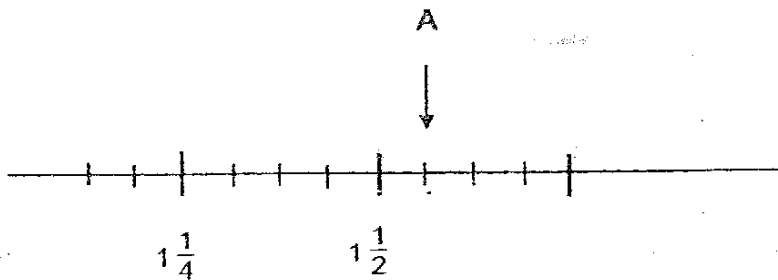
Ans: \_\_\_\_\_

17. Use the following digits to form the smallest four-digit whole number that is divisible by 5.



Ans: \_\_\_\_\_

18. What is the fraction represented by A?

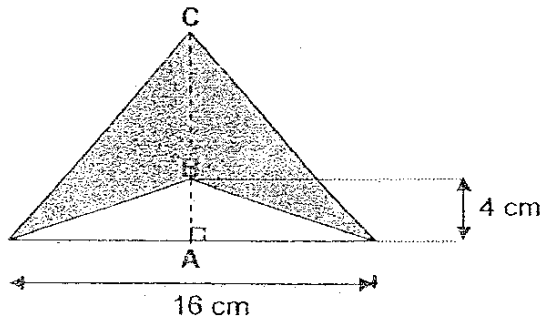


Ans: \_\_\_\_\_

36

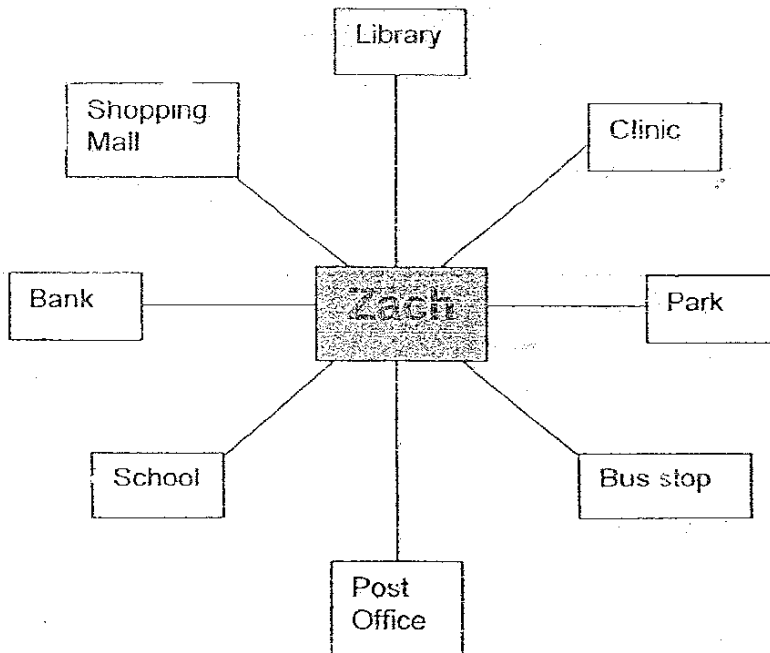


19. The length of BC is twice that of AB.  
Find the area of the shaded region.



Ans: \_\_\_\_\_  $\text{cm}^2$

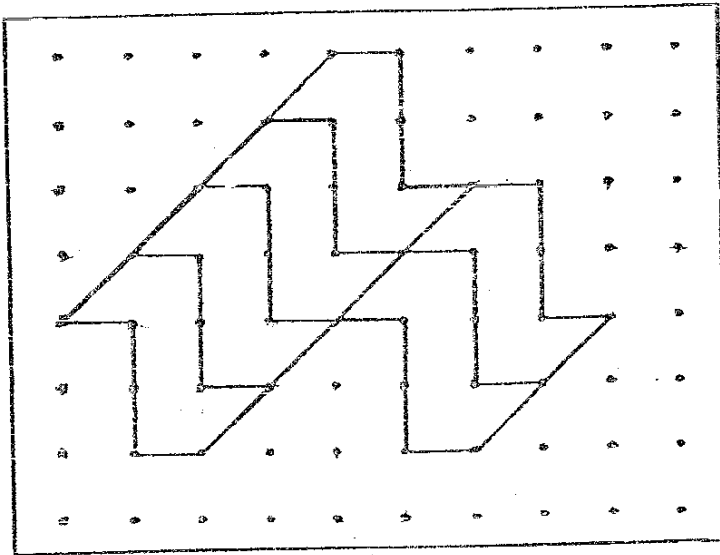
20. If Zach turns  $225^\circ$  anti-clockwise, he will be facing the Park.  
Where is he facing now?



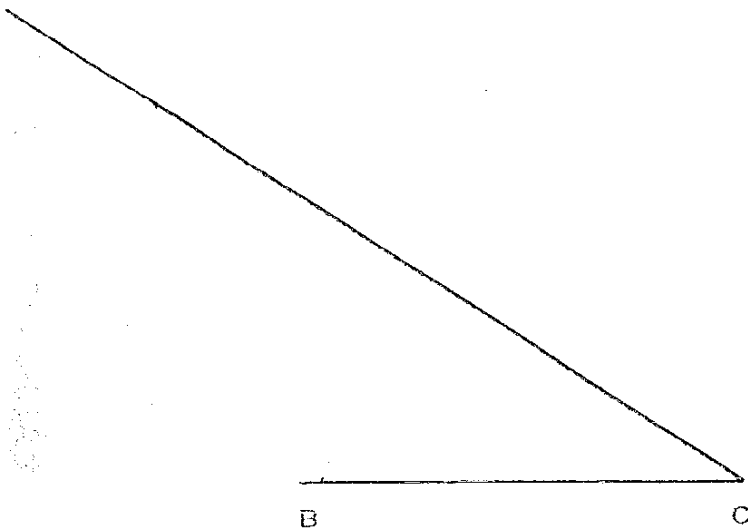
Ans: \_\_\_\_\_

38

21. The pattern in the box shows part of a tessellation.  
Extend the tessellation by drawing two more unit shapes in the space provided in the box.



22. In the space below, draw triangle ABC in which  $\angle ABC$  is  $110^\circ$ .



39

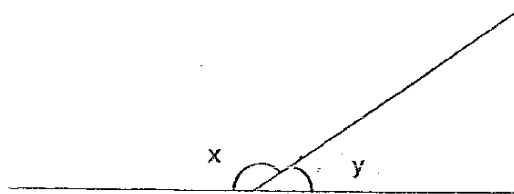
23. Divide 7.212 by 12.

Ans: \_\_\_\_\_

24. Three boys shared  $\frac{6}{7}$  of a pizza.  
What fraction of the pizza did each boy get?

Ans: \_\_\_\_\_

25. The figure below is not drawn to scale.  
 $\angle x$  is three times  $\angle y$ .  
Find  $\angle x$ .



Ans: \_\_\_\_\_<sup>o</sup>  
40

Questions 26 to 35 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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26. Mrs Lim has some sweets for her class.  
If she gives each pupil 3 sweets, she will have 5 extra sweets.  
If she gives 5 sweets to each pupil, she will need 45 more sweets.  
How many pupils are there in Mrs Lim's class?

Ans: \_\_\_\_\_

27. Mary is 12 years old and her mother is 46 years old this year.  
How many years later will Mary's mother be 3 times as old as she?

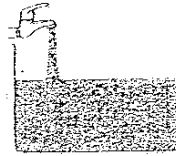
Ans: \_\_\_\_\_ years

41

28.  $\frac{1}{2}$  of a number is 48.  
What is  $\frac{7}{8}$  of the number?

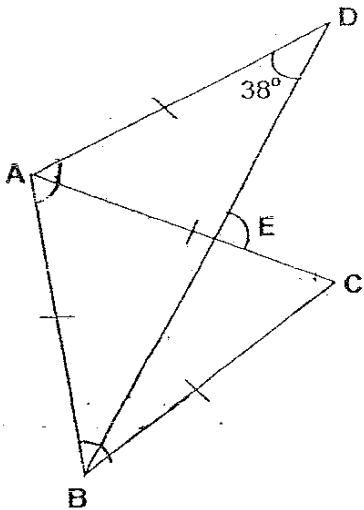
Ans: \_\_\_\_\_

29. A tap can fill  $\frac{1}{4}$  of a tank in 6 minutes.  
How long will it take to fill 3 similar tanks?



Ans: \_\_\_\_\_ min

30. ABC is an equilateral triangle and AC = AD. Find  $\angle DEC$ .

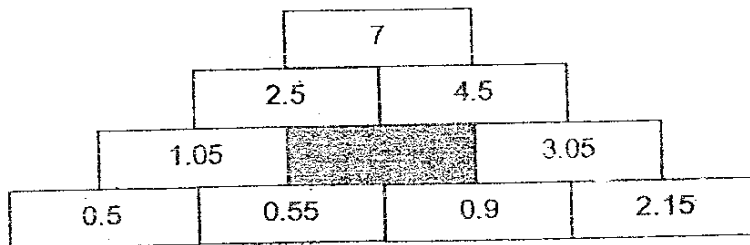


Ans: \_\_\_\_\_  
42

31. The ratio of the number of Malay books to the number of Chinese books in a library is 1 : 4.  
The ratio of the number of Chinese books to the number of English books is 2 : 5.  
How many books are there altogether if there are 270 more English books than Malay books in the library?

Ans: \_\_\_\_\_

32. What is the number in the shaded box?



Ans: \_\_\_\_\_

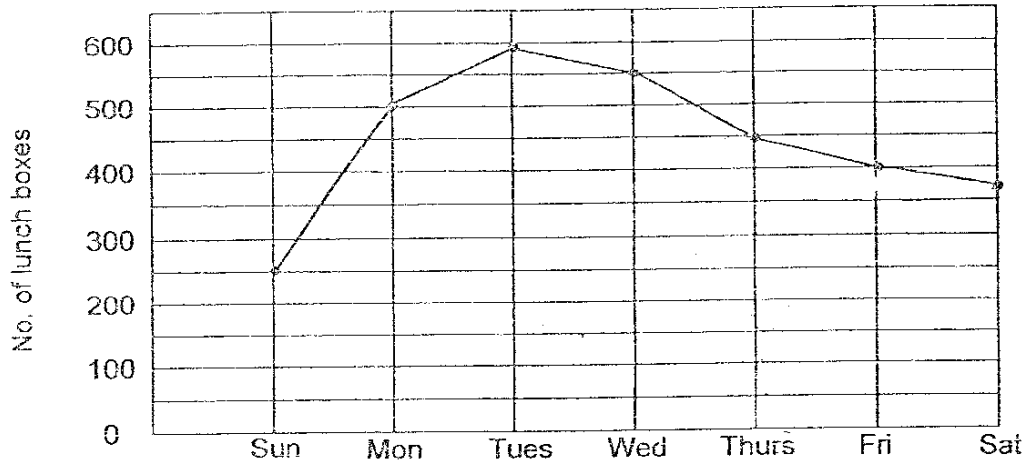
33. After a 10% discount, the selling price of a watch was \$117.  
What would be the selling price if the discount had been 20% instead?

Ans: \$ \_\_\_\_\_

43

The graph below shows the number of lunch boxes sold in a Japanese fast food shop in a week.

Study the graph carefully and answer questions 34 and 35.



34. On which day was the number of lunch boxes sold twice as many as the number sold on Sunday?

Ans: \_\_\_\_\_

35. What would the total collection for Saturday be if each lunch box was sold at \$6.50?

Ans: \$ \_\_\_\_\_

44

METHODIST GIRLS' SCHOOL (Primary)  
End-Of-Year Examination 2007  
Primary 5

# Mathematics

## Booklet B2

Name: \_\_\_\_\_ (      )

Class: P 5. \_\_\_\_\_

Total time for Booklets  
A, B1 and B2: 2h 15 min

Booklet A (20)	
Booklet B1 (30)	
Booklet B2 (50)	
Total: (100)	

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FOLLOW THE INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.



For questions 36 to 48, 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 the brackets [ ] at the end of each question or part-question. (50 marks)

36. Lina spent  $\frac{1}{2}$  of her money to buy a dress and  $\frac{1}{3}$  of the remaining amount to buy a bag. She then had \$56 left. How much money did she have at first?

Ans: \_\_\_\_\_ [3]

37. The ratio of Tom's money to Paul's money was 4 : 3 at first.  
After Tom spent \$140, the ratio of Tom's money to Paul's money became 2 : 5.  
How much money did Tom have at first?

Ans: \_\_\_\_\_ [3]

38. Siti spilled some coffee on her results slip. Her average mark for the three subjects is 86.  
What can be the largest difference between her English and Mathematics marks?

Results Slip	
English	8*
Mathematics	7*
Science	9 2

Ans: \_\_\_\_\_ [3]

39. A car travels 36 km on 3 litres of petrol. The cost of petrol is \$1.60 per litre.  
How much does a motorist have to pay for petrol if he wants to travel 240 km?

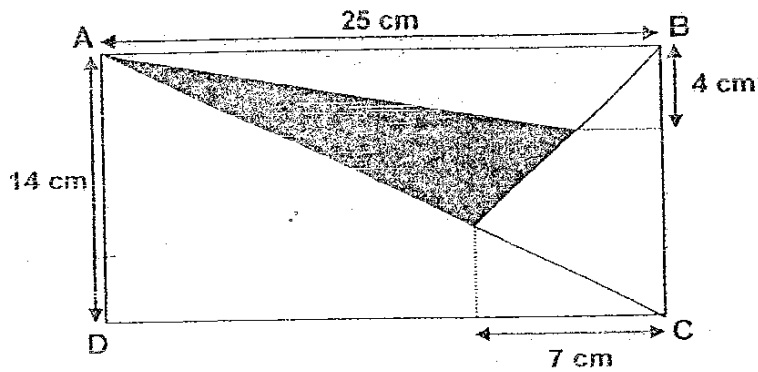
Ans: \_\_\_\_\_ [3]

48

40. Lisa put 19 oranges in bag A, 24 oranges in bag B, 15 oranges in bag C and 80 oranges in bag D. Cindy added an equal number of apples into each of the bags. As a result, bag D contained the same number of fruits as the total number of fruit in bags A, B and C.  
How many apples did Cindy put into each bag?

Ans: \_\_\_\_\_ [3]

41. ABCD is a rectangle.  
Find the area of the shaded part



Ans: \_\_\_\_\_ [4]

42. A tank measuring 30 cm by 20 cm by 27 cm contained 9.675 litres of water. When 9 cubes of the same size were placed into the tank, the water level rose to  $\frac{2}{3}$  the height of the tank (as shown in figure A). Find the length of each cube.

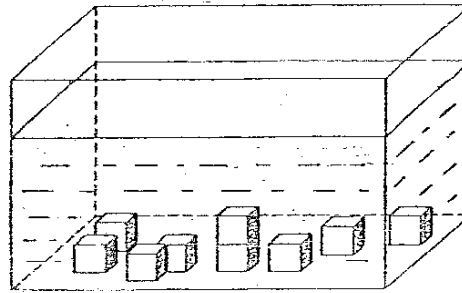
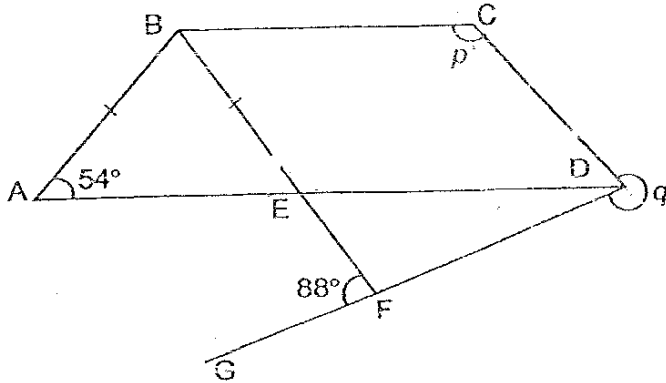


Figure A

Ans: \_\_\_\_\_ [4] 50

43. The figure below is not drawn to scale.  
 BCDE is a parallelogram.  $AB = BE$ .  
 AED, BEF and DFG are straight lines.  
 Find  $\angle p$  and  $\angle q$ .



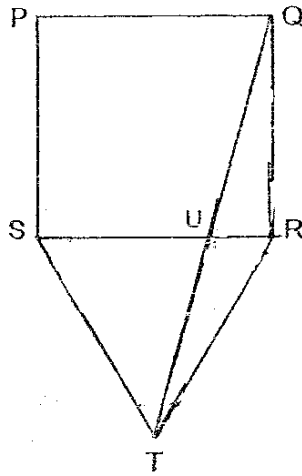
Ans:  $\angle p =$  \_\_\_\_\_ [2]

$\angle q =$  \_\_\_\_\_ [2]

51

44.

In the diagram below, not drawn to scale,  
PQRS is a square and RST is an equilateral triangle.  
Find  $\angle QUR$ .



Ans: \_\_\_\_\_ [4]

52

45. Jie Min paid \$13.45 for some pencils and erasers.  
Each pencil cost \$0.65 and each eraser cost \$0.40 less.  
How many pieces of erasers did she buy if there were 11 more pencils than erasers?

53

Ans: \_\_\_\_\_ [4]

46. The price of tickets to a concert is shown below.

Adult	\$25
Child	\$11

A group of 85 people paid a total of \$1 355 to attend the concert.  
How many children attended the concert?

Ans: \_\_\_\_\_ [5]

54



47. Sandy had some sweets. She kept  $\frac{1}{2}$  of the sweets plus 7 sweets.  
She then gave the remaining sweets to Betty.  
Betty kept  $\frac{1}{2}$  of her sweets plus 8 sweets and gave the remainder to Pauline.  
Pauline ate  $\frac{1}{4}$  of her share and found that she had 15 sweets left.
- (a) How many sweets did Pauline have?  
(b) How many sweets did Sandy have at first?

Ans: a) \_\_\_\_\_ [2]

b) \_\_\_\_\_ [3]

55

48. Free gifts were being given out at a departmental store.  
10% of the gifts were claimed on Wednesday.  
The number of gifts claimed on Thursday was 6 more than the gifts claimed on Wednesday.  
The number of gifts claimed on Friday was  $\frac{2}{3}$  of those claimed on Saturday.  
 $\frac{4}{25}$  of the gifts were claimed on Sunday.  
If 54 gifts were claimed on Saturday, how many free gifts were claimed in total?

Ans: \_\_\_\_\_ [5]

☆ End of Paper ☆  
Please check your work.

56

# Methodist Girls' Primary School

## Primary 5 Maths SA2 Exam (2007)



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

16. 7016000

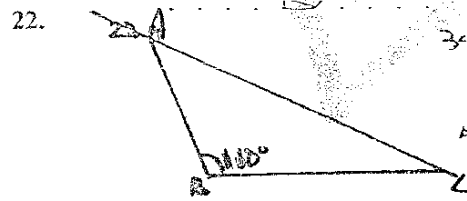
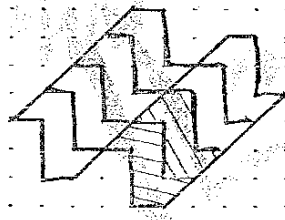
17. 3095

18.  $1\frac{9}{16}$

19.  $64\text{cm}^2$

20. shopping mall

21.



23. 0.601

24.  $\frac{2}{7}$

25.  $135^\circ$

26. 25 pupils

27. 5 years

28. 84

29. 72 mins

30.  $82^\circ$

31. 450 books

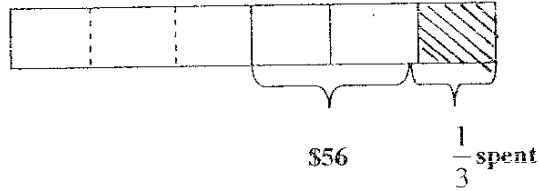
32. 1.45

32. \$104

34. Monday

35. \$2437.50

36.



2 units = \$56

6 units =  $\$28 \times 6$   
= \$168

37. Tom : Paul  
4 : 3  
 $\times 5$      $\times 5$   
20 : 15

Tom : Paul  
2 : 5  
 $\times 3$      $\times 3$   
6 : 15

20 units - 6 units = 14 units

14 units = \$140

1 unit = \$10

20 units =  $\$10 \times 20$   
= \$200

38. Total marks =  $86 \times 3 = 258$

$258 - 92 = 166$

If 166 = 89 (English) + 77 (Maths)  
=  $89 - 72$   
= 12

39.  $36 \div 3 = 12\text{km}$

1L = 12km

$\frac{240}{12} \times \$1.60 = \$32$

40. Let A be the no. of apples

$(19 + A) + (24 + A) + (15 + A) = 80 + A$

$3A + 58 = 80 + A$

$3A - A = 80 - 58$

$2A = 22$

$A = 11$

41. Area of rect. =  $45 \times 14$   
 =  $250\text{cm}^2$

Area of A =  $\frac{14}{2} \times 25 = 175\text{cm}^2$

Area of B =  $\frac{14}{2} \times 7 = 49\text{cm}^2$

Area of C =  $\frac{25}{2} \times 4 = 50\text{cm}^2$

Area of shaded part =  $350 - (175 + 49 + 50)\text{cm}^2$   
 =  $76\text{cm}^2$

42.  $\frac{2}{3} \times 27 = 18$

Vol. of water and cubes =  $30 \times 20 \times 18 = 10800$

Vol. of cubes =  $10800 - 9675 = 1125$

Vol. of 1 cube =  $1125 \div 9 = 125$

$5 \times 5 \times 5 = 125$

The length is 5cm

43.  $\angle P = 180^\circ - 54^\circ = 126^\circ$

$\angle P = 126^\circ$

$\angle CDF = 88^\circ$

$\angle q = 360^\circ - 88^\circ$   
 =  $272^\circ$

44.  $(90 + 60)^\circ = 150^\circ$

$(180 - 150)^\circ = 30^\circ$

$30^\circ \div 2 = 15^\circ$

$(90 - 15)^\circ = 75^\circ$

The angle is  $75^\circ$

45. Pencil = \$0.65

Eraser = \$0.25

$\$0.65 \times 11 = \$7.15$

$\$(13.45 - 7.15) = \$6.30$

$\$(0.25 + 0.65) = \$0.90$

$630 \div 90 = 7$

There are 7 erasers.

46.  $85 \times 11 = 935$   
 $1355 - 935 = 420$   
 $25 - 11 = 14$   
 $420 \div 14 = 30$   
 $85 - 30 = 55$   
 55 children paid to watch the concert.

47a.  $15 \div 3 = 5$   
 $5 \times 4 = 20$   
 Pauline had 20 sweets

47b.  $20 + 8 = 28$   
 $28 \times 2 = 56$   
 $56 + 7 = 63$   
 $63 \times 2 = 126$   
 Sandy had 126 sweets.

48. Wed = 10%  
 Thurs = 10% + 6  
 Fri =  $\frac{2}{3} \times 54 = 36$   
 Sat = 54  
 Sun = 16%  
 $(100 - 10 - 10 - 16)\% = 64\%$   
 $64\% = 6 + 36 + 54 = 96$   
 1% = 1.5%  
 100% = 150  
 150 gifts were claimed.