

METHODIST GIRLS' SCHOOL (Primary)
End-of-Year Examination 2005
Primary 5

Mathematics

Booklet A

Name: _____ ()

Class: P 5. _____

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

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

FOLLOW THE INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

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 nine hundred and fifty thousand and fourteen written in numerals?
 - (1) 915 014
 - (2) 915 040
 - (3) 950 014
 - (4) 950 040

2. A number has a quotient of 1200 when divided by 12. What is the number?
 - (1) 100
 - (2) 144
 - (3) 1 188
 - (4) 14 400

3. Mr Ong's total income for last year was \$154 856. Round this off to the nearest ten thousand dollars.
 - (1) \$150 000
 - (2) \$154 000
 - (3) \$154 860
 - (4) \$155 000

4. If $\frac{1}{5}$ of a number is 15, what is $\frac{1}{3}$ of the number?
 - (1) 75
 - (2) 25
 - (3) 3
 - (4) 5

5. What is the ratio of the area of a square of side 6 cm to the area of a square of side 3 cm?

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

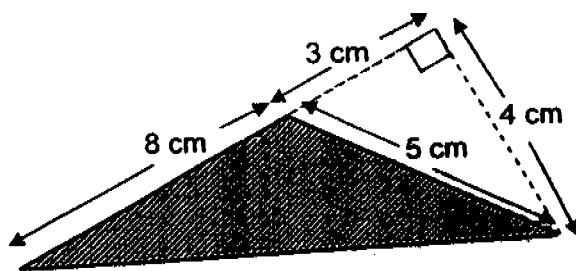
6. Joel cut a 1-metre string into 3 pieces, A, B and C. A is 40 cm longer than B. B and C are of the same length. What is the ratio of length A to length B to length C?

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

7. A cube has a volume of 216 cm^3 . Find the area of one face of the cube.

- (1) 6 cm^2
- (2) 36 cm^2
- (3) 24 cm^2
- (4) 72 cm^2

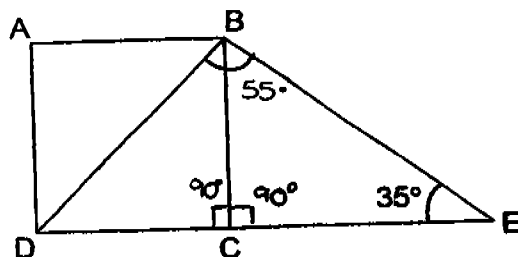
8. What is the area of the shaded triangle shown below?



- (1) 12 cm^2
- (2) 16 cm^2
- (3) 20 cm^2
- (4) 22 cm^2

9. There are 90 goats, 50 cows and 60 ducks in a farm.
What percentage of the animals in the farm are ducks?
- (1) 25%
 - (2) 30%
 - (3) 40%
 - (4) 45%
10. 560 tickets were sold for a concert. 55% of them were sold by pupils in Class A and the rest were sold by pupils in Class B.
How many more tickets were sold by Class A than by Class B?
- (1) 28
 - (2) 56
 - (3) 252
 - (4) 308
11. Find the value of $1\,000\,000 - 100\,000 - 1\,010$.
- (1) 889 090
 - (2) 898 990
 - (3) 909 090
 - (4) 989 990
12. Ahmad is 2 years 8 months old.
Benjamin is 3 years 9 months old and
Chandra is 2 years 10 months old.
Find their average age.
- (1) 2 years 9 months
 - (2) 2 years 10 months
 - (3) 3 years 1 month
 - (4) 3 years 5 months

13. ABCD is a square. DCE is a straight line. Find $\angle DBE$.



- (1) 90°
 (2) 100°
 (3) 110°
 (4) 125°
14. Find the product of the first 2 common multiples of 5 and 15.
- (1) 5
 (2) 75
 (3) 300
 (4) 450
15. Find the value of 7.25×98 .
- (1) 58.0
 (2) 652.5
 (3) 710.5
 (4) 717.75

METHODIST GIRLS' SCHOOL (Primary)
End-of-Year Examination 2005
Primary 5

Mathematics

Booklet B1

Name: _____ ()

Class: P 5. _____

Booklet B1 (30)	
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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. Evaluate $27 - 15 \div 3 + 2 \times 4$.

Ans: _____

17. How many thousands must be added to 207 thousands to get half a million?

Ans: _____ thousands

18. A ribbon of length $\frac{7}{8}$ m is cut into 4 equal pieces.
What is the length of each piece?

Ans: _____ m

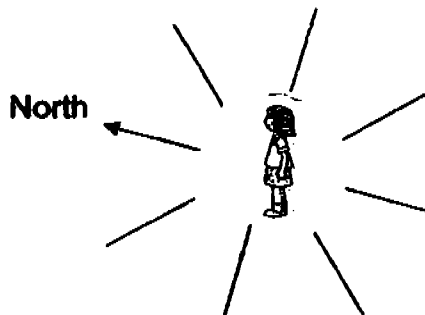
19. In a class, 15 out of 40 children are boys.
What is the ratio of the number of boys to the number of girls?
Express your answer in its simplest form.

Ans: _____

20. Express 3 minutes 20 seconds as a ratio of 1 hour in its simplest form.

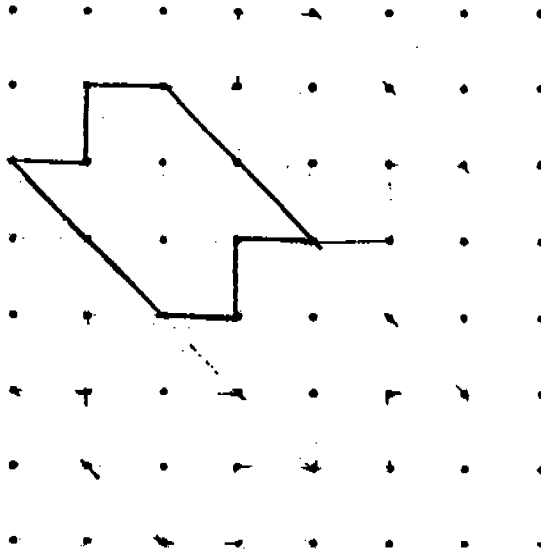
Ans: _____

21. Hui Min was facing north. She then turned anticlockwise to face south-west.
Through what angle did she turn?

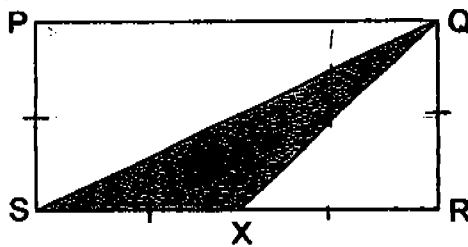


Ans: _____

22. The unit shape below can be tessellated. Draw 3 more of the unit shape to show how it can be tessellated.



23. PQRS is a rectangle. X is the mid-point of SR. What percentage of the diagram is shaded?



Ans: _____%

24. What is the sum of 7 tenths, 21 hundredths and 45 tenths?

Ans: _____

25. What is the value of $49.14 \div 7$?

Ans: _____

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)

26. Desmond packed 3 300 notebooks into boxes. Each box could hold 20 notebooks. He sold all the notebooks at \$9 per box. How much money did he get altogether?

Ans: \$ _____

27. Evelyn is 5 years younger than Fatimah. Six years ago, Fatimah was 19 years old. How old is Evelyn now?

Ans: _____ years

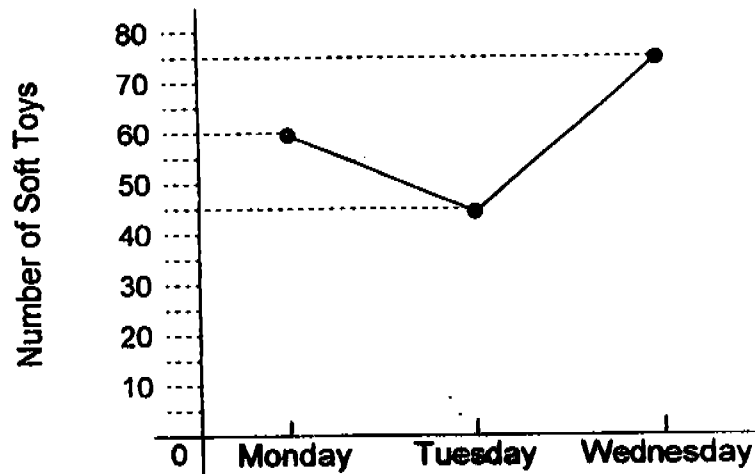
28. $\frac{2}{3}$ of a number is bigger than $\frac{1}{4}$ of the same number by 60. What is the number?

Ans: _____

29. In a company, $\frac{1}{3}$ of the number of male employees is equal to $\frac{1}{8}$ of the number of female employees. There are 45 more female than male employees. How many male employees are there in the company?

Ans: _____

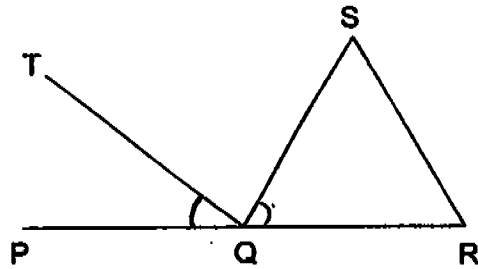
30. The following line graph shows the number of soft toys sold by Mr Goh from Monday to Wednesday.



Mr Goh sold the soft toys at 3 for \$10.
How much did he earn in the 3 days?

Ans: \$ _____

31. In the figure below, QRS is an equilateral triangle and both PQR and TQ are straight lines. $\angle SQT$ is twice that of $\angle PQT$. Find $\angle PQT$.



Ans: _____

32. Jane can type 240 words in 3 minutes. Betty can type 400 words in 4 minutes. At these rates, how many more words can Betty type than Jane in 12 minutes?

Ans: _____

33. The table shows the taxi fare at Jazz City.

First km or part thereof	\$2.40
Every additional 250m or part thereof	\$0.30

What was the maximum distance a commuter could have travelled if he had paid a fare of \$5.40?

Ans: _____ km

34. There were 58 white files and 28 black files in a box at first.
When an equal number of white and black files were put into the box, there were twice as many white files as black files.
What was the total number of files put in the box?

Ans: _____

35. Ravi had a drum containing 32.8 l of oil. He poured $\frac{3}{4}$ of the oil equally into 8 cans. How many litres of oil were there in each can?

Ans: _____ l

METHODIST GIRLS' SCHOOL (Primary)
End-of-Year Examination 2005
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. The average of two numbers is 74. The difference between them is 18.
What is the value of the bigger number?

Answer: _____ [3]

37. Peter, James and Reuben had some cards.
Peter and Reuben had 325 cards altogether.
James and Reuben together had 3 times as many cards as Peter.
The ratio of the number of cards James had to the number of cards Reuben had was 3 : 9.
How many cards did Peter have?

Answer: _____ [3]

38. 6 pails of water can fill $\frac{4}{9}$ of a fish tank.
Another 3 pails and 7 jugs of water are required to fill the tank to its brim.
How many jugs of water can the tank hold?

Answer: _____ [3]

39. The table shows the postage for letters and small parcels to Brunei.

Mass step not over	Postage
20g	\$0.40
50g	\$0.50
100g	\$0.80
Per additional step of 100g or part thereof	\$0.80

How much does Aminah need to pay if she sends a parcel of mass 1.25 kg?

Answer: _____ [3]

40. Annie and Brandy had \$157 altogether. After Annie had spent 30% of her money and Brandy had spent \$55, they each had the same amount of money left. How much money did Brandy have at first?

Answer: _____ [3]

41. Sophie spent \$273 on a bag. She then spent $\frac{1}{7}$ of her remaining money on a blouse. If she still had $\frac{3}{5}$ of her money left, how much did she have at first?

Answer: _____, _____ [4]

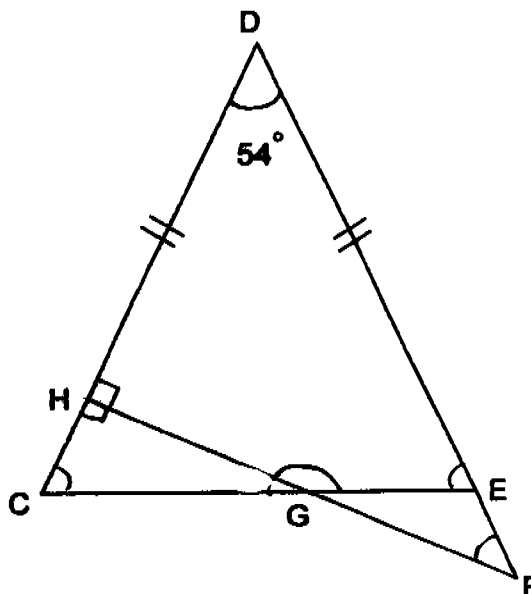
42. Jason earns a fixed monthly income.
Last month, he saved 20% of it.
This month he saved 30% more than what he saved last month.
His total savings for the two months is \$460.
What is his monthly income?

Answer: _____ [4]

43. The figure shown below is not drawn to scale.
 $CD = DE$, $\angle DHF = 90^\circ$ and FGH is a straight line.

Find

- (a) $\angle DFH$
(b) $\angle EGH$



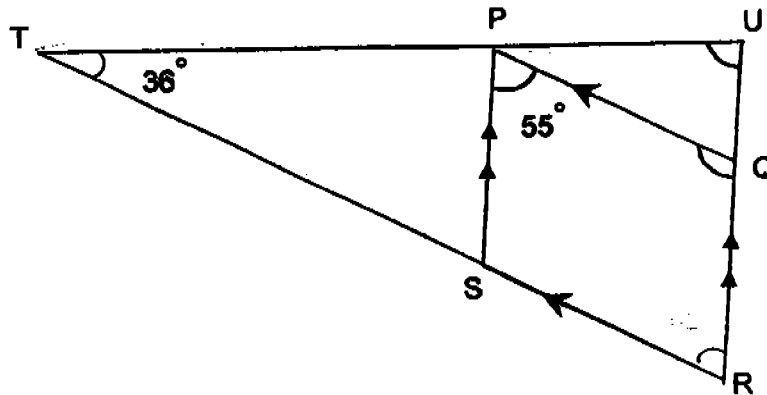
Ans: (a) $\angle DFH =$ _____ [1]

(b) $\angle EGH =$ _____ [3]

44. In the figure below, not drawn to scale, PQRS is a parallelogram and TPU is a straight line.

Find

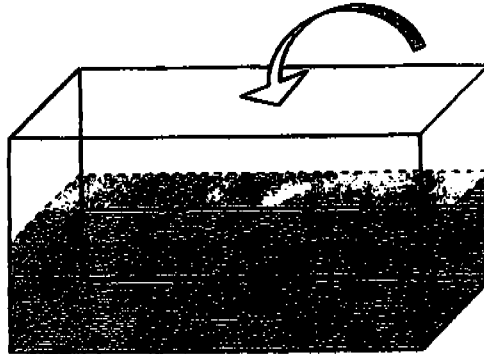
- (a) $\angle PQR$
(b) $\angle RUT$



Ans: (a) $\angle PQR =$ _____ [2]

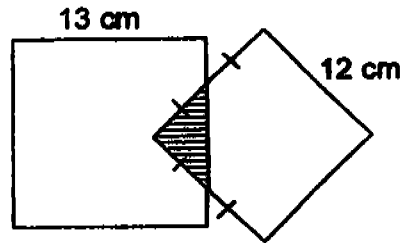
(b) $\angle RUT =$ _____ [2]

45. A rectangular tank measuring 30 cm by 15 cm by 15 cm was one-third filled with water. A stone of volume 950 cm^3 was lowered into the tank. How much more water must be added to fill the tank to its brim? Give your answer in cm^3 .



Ans: _____ [4]

46. Two squares overlap to form a triangle as shown in the figure below.
- a) Find the area of the shaded triangle.
 - b) Find the total area of the unshaded parts.



Ans: (a) _____ [2]

(b) _____ [3]

47. The table below shows the admission rate for adults and children to an ice-skating rink.

	Adult	Child below 12 years old	Group admission for 5 skaters
First 2 hours	\$10.50	\$8.40	\$36.80 (unlimited time)
Additional hour or less	\$4.20	\$3.20	

Mr Ng took his wife and three children, aged 8, 10 and 16, to the ice-skating rink. He paid the group admission rate of \$36.80 for his entire family. They spent 3 hours there. If there was no group admission rate, how much more would he have to pay?

Ans: _____ [5]

48. A fruit stall had 720 fruits for sale.
 $\frac{1}{4}$ of them were apples, 20% of the remaining fruits were pears and the rest were oranges. 48 apples, 24 pears and 12 oranges were sold.
- (a) How many oranges were there at the beginning?
(b) Find the ratio of the total number of fruits sold to the total number of fruits in the beginning. Express your answer in the simplest form.

Answer: (a) _____ [3]

(b) _____ [2]

⊕ End of Paper ⊕

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

Exam Paper

Answer Sheets

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

- | | |
|-----------------------|--|
| 16. 30 | 33. 3.5km |
| 17. 293 | 34. 4 files |
| 18. $\frac{7}{32}$ | 35. 3.075 |
| 19. 3 : 5 | 36. 83 |
| 20. 1 : 18 | 37. 100 cards |
| 21. 135° | 38. 21 jugs |
| 22. | 39. \$10.40 |
| 23. 25 | 40. \$97 |
| 24. 5.41 | 41. \$910 |
| 25. 7.02 | 42. \$1000 |
| 26. 1485 | 43. a) 36° b) 153° |
| 27. 20 | 44. a) 125° b) 89° |
| 28. 144 | 45. 3550cm ³ |
| 29. 27 male employees | 46. a) 18cm ² b) 277cm ² |
| 30. 600 | 47. \$30.50 |
| 31. 40 | 48. a) 432 oranges b) 7 : 60 |
| 32. 240 words | |