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

Mathematics

Booklet A

| | | art. | |
|----------------------------|---------------|----------------|--|
| Name: | (|) | |
| Class: P 5 | | <i>,</i> | |
| Total time for Booklets A, | B1 and B2: 2h | 15 min | |
| | | | ing gap penging agraph and the control of the contr |
| DO NOT OPEN THIS BOOKLET | UNTIL YOU ARE | TOLD TO DO SO. | |
| FOLLOW THE INSTRUCTIONS | CAREFULLY. | | |
| ANSWER ALL OLIESTIONS. | | | |

STAR ZEST HOME TUITION TEL 63845607

Booklet A Methodist Girls' School (Primary), P5 SA1 2007

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)

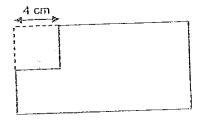
- Six million, four hundred and ten thousand in numerals is __
 - (1) 6 000 410
 - (2) 6 004 010
 - (3) 6 400 010
 - (4) 6 410 000
- Evaluate $100 (46 \div 2) \div 7 \times 2$. 2.
 - (1) 41
 - (2) 68
 - (3) 91
 - (4) 490
- A number when rounded off to the nearest hundred becomes 43 000. 3. Which one of the following can be that number?
 - (1) 42 849
 - (2) 42 904
 - (3) 42 953
 - (4) 43 108
- How many metres are there in $\frac{4}{5}$ km? 4.
 - (1) 8 m
 - (2) 80 m
 - (3) 800 m
 - (4) 8 000 m

Booklet A Methodist Girls' School (Primary), P5 SA1 2007

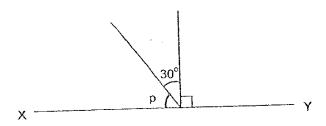
- 5. Susan added $\frac{3}{8}l$ of syrup into a canister that was filled with $5\frac{2}{3}l$ of water. How much drink was in the canister?
 - (1) $4\frac{2}{3}I$
 - (2) $5\frac{7}{24}l$
 - (3) $5\frac{5}{8}I$
 - (4) $6\frac{1}{24}l$
- 6. What must be added to $2\frac{1}{3}$ to get $5\frac{1}{6}$?
 - (1) $2\frac{5}{6}$
 - (2) $3\frac{1}{6}$
 - (3) $7\frac{1}{2}$
 - (4) $7\frac{1}{6}$
- 7. John divided $\frac{3}{4}$ of a pizza equally among 3 children. How much pizza would each child get?
 - (1) $\frac{1}{4}$
 - (2) $\frac{1}{3}$
 - (3) $\frac{4}{7}$
 - (4) $\frac{4}{9}$

3

- A 4-cm square is cut out from the corner of a rectangular piece of paper 8. 14 cm by 9 cm. Find the perimeter of the remaining piece of paper.
 - (1) 28 cm
 - (2) 33 cm
 - (3) 38 cm
 - (4) 46 cm



- A tank measuring 60 cm by 70 cm by 40 cm is half-filled with water. 9. How much water is there in the tank? (1 litre = 1 000 cm³)
 - (1) 84 litres
 - (2) 85 litres
 - (3) 168 litres
 - (4) 170 litres
- In the figure, not drawn to scale, XY is a straight line. 10. Find ∠ p.



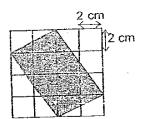
- 30° (1)
- 60 ^{d ---} (2)90°³
- (3)
- 120° (4)
- Jennifer reads 12 pages of her book every day. If this book has 272 pages, she 11. will finish reading her book on the _____ day.
 - (1) 21st
 - (2) 22nd
 - (3) 23rd
 - (4) 24th

3

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Booldet A Methodist Giris' School (Primary), P5 SA1 2007

- At a recent bookfair, books were sold at 3 for \$4. Sarah bought 15 books. 12. She paid with a \$100-note. How much change did Sarah receive?
 - (1) \$20
 - (2) \$40
 - (3) \$60
 - (4) \$80
- In a box of 60 pens, $\frac{1}{4}$ are blue and the rest are black. 13. How many more black pens than blue pens are there?
 - 5 (1)
 - (2) 15
 - (3) 30
 - (4) 45
- What is the area of the shaded figure? 14.



- (1) 8 cm²
- (2) 16 cm²
- (3) 24 cm²
- (4) 32 cm²
- The sides of a triangle are in the ratio 2:3:7. 15. If the shortest side is 4 cm, what is its perimeter?
 - 2 cm
 - 14 cm
 - 24 cm
 - 48 cm

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

Mathematics

Booklet B1

| Name: | (|) | Booklet B1 (30). |
|--|-------|--------|------------------|
| Class: P 5 | | | |
| Total time for Booklets A, B1 and B2: 2h 15 min | | | |
| DO NOT OPEN THIS BOOKLET | UNTIL | YOU AR | E TOLD TO DO SO. |
| FOLLOW THE INSTRUCTIONS O | CAREF | ULLY. | |
| ANSWER ALL QUESTIONS. | | | ÷ |

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Methodist Girls' School (Primary), P5 SA1 2007

| Ques quest | tions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For ions which require units, give your answers in the units stated. (10 marks) |
|---------------|--|
| 16. | What must be added to 99 to make a million? |
| | |
| | |
| | Ans: |
| 17. | Find the sum of the first 2 common multiples of 4 and 8. |
| | |
| | |
| | Ans: |
| 18. | Round off the difference between 13 687 and 8 423 to the nearest thousand. |
| 10. | |
| | |
| | |
| | Ans: |
| 19. | Write the smallest possible 5-digit number using 5 different digits. |
| | en de la companya de La companya de la co |
| | |
| | Ans: |
| | 6 |

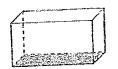
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Methodist Girls' School (Primary), P5 SA1 2007

20. The area of a rectangular wooden plank is 220 cm². Find its length if its breadth is 11 cm.



21. The volume of the following rectangular box is 324 cm³. Find its height if its base area is 81 cm².



Ans. _____cm

22.
$$1\frac{1}{5} + 1\frac{1}{5} + 1\frac{1}{5} + 1\frac{1}{5} = \begin{bmatrix} X & \frac{6}{5} \end{bmatrix}$$

What is the missing number in the box?

Ans: _____

23. Arrange the fractions in ascending order, from the smallest to the largest.

$$\frac{7}{8}$$
, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{6}$

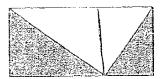
7

Ans:

Booklet B1

Methodist Girls' School (Primary), P5 SA1 2007

24. What fraction of the rectangle is shaded? Express your answer in the simplest form.



Ans:

Jane weighs 60 kg. Her sister is 12 kg heavier.
Find the ratio of Jane's weight to her sister's weight.
Express your answer in the simplest form.

Ans: ...___

8

Methodist Girls' School (Primary), P5 SA1 2007

| e yo | our answers in the units stated. | your working dearly in the open control your w |
|----------------|--|--|
| _ _ | Ashley was given \$522. She had \$1 amount of money each day, how muc | 8 left after 2 weeks. If she had spent the same th did she spend each day? |
| | | |
| | | |
| | | • • |
| | | Ans: \$ |
| | Lisa has 12 times as much money a If Lisa has \$132 more than Melody, l | s Melody. how much money does Lisa have? |
| | e 14 februaries | |
| | | |
| | | ٠٠ |
| | | Ans: \$ |
| | Michelle bought 416 pastries for a p Each guest ate 4 pastries and there How many guests were there? | party. e were 20 pastries left. |
| | | |
| | | |
| | | |
| | | |

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Methodist Girls' School (Primary), P5 SA1 2007

| 29. | The total volume of some metal balls is 270 cm | ³ . These metal balls are then melted |
|-----|---|--|
| | and recast into 3-cm cubes. How many cubes wi | ill there be? |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | Ans: |
| | | 7110. |
| | | |
| 30. | The perimeter of a rectangle is 64 cm. Its length | is 24 cm. |
| | What is the area of the rectangle? | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | 2 222 |
| | | Ans:cm ² |
| | | |
| 31. | Express 36 minutes as a fraction of 3 hours. | |
| | Give your answer in the simplest form. | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | Ans: |
| | | |

9 10

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Methodist Girls' School (Primary), P5 SA1 2007

| 32. | How many | eighths | are | there | in | $2\frac{1}{4}$ | ? |
|-----|----------|---------|-----|-------|----|----------------|---|
| 12 | | | | | | | |

Ans: _____eighths

33. If $\frac{1}{6}$ of a number is 6, what is half the number?

Ans: _____

34. The ratio of two numbers is 5 : 2. The sum of the two numbers is 12 more than their difference. Find the sum of the two numbers.

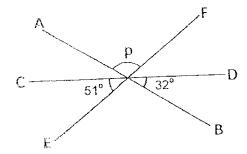
Ans: _____

得 \$

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Methodist Girls' School (Primary), P5 SA1 2007

35. The figure below is not drawn to scale. AB, CD and EF are straight lines. Find \angle p.



Ans: _____

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

Mathematics

Booklet B2

| Name:(|) 3ooklet A (20) |
|--|----------------------------------|
| Class: P 5 | Booklet B1 (30) Booklet B2 (50) |
| Total time for Booklets A, B1 and B2: 2h 15 min | Total: (100) |
| | |
| DO NOT OPEN THIS BOOKLET UNT | TIL YOU ARE TOLD TO DO SO. |
| DO NOT OPEN THIS BOOKLET UNT | |

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Booklet B2 Methodist Girls' School (Primary) P5 SA1 2007

| 1 | ren. | 5 years from now, Jenny will be twice as old as Ka Karen was born eleven years ago. |
|-----|------------------|---|
| | | How old is Jenny now? |
| | | |
| | | |
| · | | |
| | | |
| [3] | Ans: | |
| [3] | | |
| [3] | pils in the bus. | When a bus left the interchange, there were 42 per At the first bus-stop, 8 boys boarded the bus. As a result, the number of boys was equal to the At the next bus stop, 12 girls got off. How many girls were left in the bus? |
| [3] | pils in the bus. | When a bus left the interchange, there were 42 per At the first bus-stop, 8 boys boarded the bus. As a result, the number of boys was equal to the At the next bus stop, 12 girls got off. |
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| [3] | pils in the bus. | When a bus left the interchange, there were 42 per At the first bus-stop, 8 boys boarded the bus. As a result, the number of boys was equal to the At the next bus stop, 12 girls got off. How many girls were left in the bus? |

Booklet B2 Methodist Girls' School (Primary), P5 SA1 2007

| 38. | Ben sold 24 rubber ducks on Thursday. He sold $\frac{2}{5}$ of the remainder on Friday. If he still had 99 rubber ducks to be sold on Saturday, how many rubber ducks did he have at first? |
|-----|---|
| | |
| | |

Ans: _____[3]

39. Carrie and Diane had some paper cranes in the ratio 5 : 3. Carrie gave half of her paper cranes to Diane.
Diane then had 24 more paper cranes than Carrie.
How many paper cranes did they have altogether?

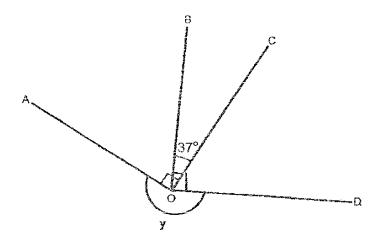
Ans:_____[3

15

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Booklet B2 Methodist Girls' School (Primary), P5 SA1 2007

40. \angle AOC and \angle BOD are right angles. Find \angle y.



| Ans: | [| 3 |
|---------|-----|---|
| , (110° | . E | ~ |

Weiling had a total of 180 marks for English and Chinese in her mid-year examination. She had a total of 170 marks for her Chinese and Mathematics. She had 4 more marks for Chinese than English. How many marks did she get for Mathematics?

Ans: [4]

16

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Booklet B2 Methodist Girls' School (Primary), P5 SA1 2007

- Faridah saved \$3 200. Grace saved \$450 less than Faridah. 42. Huimin saved 4 times as much as money as Grace.
 - a) How much money did Huimin save?
 - b) How much did the 3 girls save altogether?

| Ans: a) | [2m] |
|---------|------|
| ы | [2m |

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| | | | 8 | ookl | et B2 |
|------------------|--------|------------|----|------|-------|
| Methodist Girls' | School | (Primary), | P5 | SA1 | 2007 |

| 43. | Santhi had \$26 more than Nurul. |
|-------|--|
| , ,,, | After Santhi received another \$35 and Nurul spent \$65, Santhi then had 7 times |
| | as much money as Nurul. How much money did Nurul have at first? |

___[4]

18

Page 16 of 21 (Go on to the next page)

Booklet B2 Methodist Girls' School (Primary), P5 SA1 2007

44. Mrs Lee spent \$120 on a watch. She spent $\frac{1}{7}$ of her remaining money on a pair of shoes. If she had $\frac{3}{5}$ of his money left, how much money did Mrs Lee have at first?

Ans: _____[4

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| | | S | ooki | CÍ | 92 |
|-------------------------|------------|----|------|----|-------------|
| Methodist Girls' School | (Primary), | P5 | SA1 | 20 | <i>3</i> 07 |

A box measures 56 cm long, 23 cm wide and 106 cm high. Ella wants to fill the box with as many cubes as she can. Each cube has a volume of 64 cm³. What is the maximum number of cubes that Ella can fill the box with?

Ans:_____[4]

20

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Booklet B2 Methodist Girls' School (Primary), P5 SA1 2007

46. A box contained \$2 and \$5 notes. $\frac{1}{4}$ the number of \$2 notes is equal to $\frac{4}{5}$ the number of \$5 notes. There is a total of 315 notes in the box. Find the total value of all the notes in the box.

Ans: _____[5

2

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Booklet B2 Methodist Girls' School (Primary), P5 SA1 2007

A7. A jug contains 4 litres of water. When Rachel poured $\frac{3}{5}$ of the water into an empty rectangular container, the rectangular container became $\frac{3}{4}$ full. Find the height of the container if its base area is 500 cm². (1 litre = 1 000 cm³)

Ans: _____[5]

22

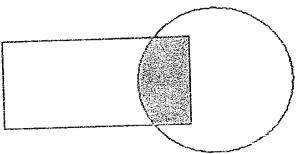
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Booklet 52 Methodist Girls' School (Primary), P5 SA1 2007

The figure below is made up of a rectangle and a circle. The ratio of the shaded area of the figure to the area of rectangle is 3:8. 48. The ratio of the shaded area to the area of the circle is 1:5. The shaded area is 27 cm².

Find the area of the circle. ---- a)

Find the ratio of the shaded part of the figure to the total unshaded parts b) of the figure.



| Ans: a) | [2] |
|---------|-----|
| b) | [3] |

⊕ End of Paper ©

23

Please check your work.

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Methodist Girls' Primary School

Primary 5 Maths SA1 Exam (2007)



| <u> </u> | O2 | Q3 | Q4 | Q5 |
|----------|-----|-----|-----|-----|
| 4 | 3 | 3 | 3 | 4 |
| 06 | 07 | Q8 | Q9 | Q10 |
| 1 | 1 | 4 | 1 | 2 |
| 011 | Q12 | Q13 | Q14 | Q15 |
| 3 | 4 | 3 | 4 | 3 |

- 16. 999901
- 18. 5009
- 20. 20cm
- 22. 4
- 24. $\frac{1}{2}$
- 26. \$36
- 28. 99 guests
- 30. 192cm²
- 32. 18 eightths
- 34. 21

35.
$$32^{\circ} + 51^{\circ} = 83^{\circ}$$

 $180^{\circ} - 83^{\circ} = 97^{\circ}$

36.
$$11 + 5 = 16$$

 $16 \times 2 = 32$
 $32 - 5 = 27$
Jenny is 27 years old now.

23.
$$\frac{1}{2}$$
, $\frac{3}{4}$, $\frac{5}{6}$, $\frac{7}{8}$

31.
$$\frac{1}{5}$$

97 579

Page 1 of 3

37.
$$42 + 8 = 50$$

 $50 \div 2 = 25$
 $25 - 12 = 13$
13 girls were left

38.
$$99 \div 2 = 33$$

33 x 5 = 165
165 + 24 = 189
He had 189 rubber ducks at first.

39.
$$11 - 5 = 6$$

 $24 \div 4 = 6$
 $10 + 6 = 16$
 $4 \times 16 = 64$
They had 64 paper cranes altogether.

40.
$$90^{\circ} - 37^{\circ} = 53^{\circ}$$

 $53^{\circ} \times 2 = 106^{\circ}$
 $106^{\circ} + 37^{\circ} = 143^{\circ}$
 $360^{\circ} - 143^{\circ} = 217^{\circ}$
 $\angle y = 217^{\circ}$

41.
$$180^{\circ} - 40^{\circ} = 176^{\circ}$$

 $176^{\circ} \div 2 = 88^{\circ}$
 $88^{\circ} + 4^{\circ} = 92^{\circ}$
 $170 - 92^{\circ} = 78^{\circ}$
Weiling got 78 marks for Maths.

43.
$$26 + 35 = 61$$

 $61 + 65 = 126$
 $7 - 1 = 6$
 $126 \div 6 = 21$
 $21 + 65 = 86$
Nurul had \$86 at first.

Page 2 of 3

- 44. $120 \div 3 = 40$ $40 \times 10 = 400$ Mrs Lee had \$400 at first.
- 45. $56 \div 4 5 \text{ r3}$ $106 \div 4 = 26 \text{ r2}$ $14 \times 5 \times 26 = 1820$ Ella can fill the box 1820 cubes.
- 47. $4000 \div 5 = 800$ $806 \times 3 = 2400$ 2400 + 800 = 3200 $3200 \div 500 = 6.4$ The height is 6.4m
- 48a. $27 \times 5 = 135$ The area of the circle is 135cm^2
- 48b. 3:17