METHODIST GIRLS' SCHOOL (Primary)
Continual Assessment 1 2008
Primary 6

Mathematics

Booklet A

Name: _____ ( )

Class: P 6. _____

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)

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1. Express 75% as a decimal.

   1. 0.075
   2. 0.75
   3. 7.50
   4. 75.0

2. Express the ratio of 20 cm to 5 m in the simplest form.

   1. 1 : 25
   2. 2 : 5
   3. 4 : 1
   4. 25 :1

3. Find the average of 699, 525 and 210.

   1. 408
   2. 458
   3. 475
   4. 478

4. When I add 2 numbers, I get 20 and when I find their difference, I get 2. What will I get when I multiply the numbers?

   1. 120
   2. 99
   3. 80
   4. 63

(Go on to the next page)

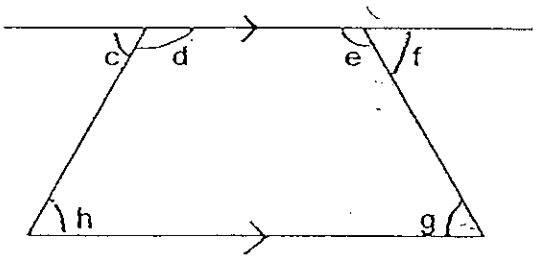
5. Mrs Sim bought some sweets.
She gave 268 pupils 2 sweets each and had 9 sweets left.
How many sweets did she buy?

1. 533
2. 536
3. 539
4. 545

6. Mrs Chan bought $\frac{7}{8}$ kg of chicken. She used $\frac{2}{5}$ of it to make chicken salad.
How many kilograms of chicken had she left?

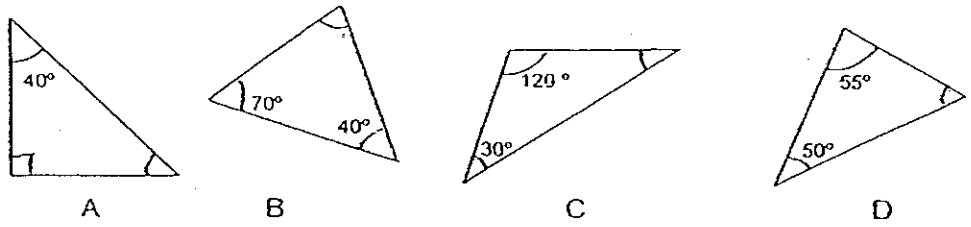
1. $\frac{7}{10}$ kg
2. $\frac{13}{20}$ kg
3. $\frac{19}{40}$ kg
4. $\frac{21}{40}$ kg

7. In the figure below, $\angle c + \angle d = \angle g +$ _____



1. $\angle d$
2. $\angle e$
3. $\angle f$
4. $\angle h$

8.



A B C D

Which two of the above triangles are **not** isosceles triangles?

1. A and B
2. B and C
3. A and D
4. C and D

9. Divide 62.8 by 6. Round off your answer to 2 decimal places.

1. 1.46
2. 1.47
3. 10.46
4. 10.47

10. 35 m = _____ km.

1. 0.035 km
2. 0.05 km
3. 350 km
4. 3 500 km

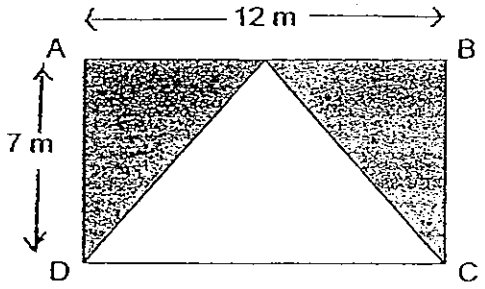
11. Rachel weighs y kg. Denise weighs twice as heavy as Rachel.
Helen is 3 kg heavier than Rachel. Find the total weight of the 3 girls.

1. (y + 6) kg
2. (3y + 3) kg
3. (4y + 3) kg
4. (5y + 6) kg

12. Jane had 4 times as much money as Grace. After their mother gave Jane $62.10 and Grace $25, Jane had 3 times as much money as Grace.
How much money did Jane have at first?

1. $12.90
2. $25.80
3. $38.70
4. $51.60

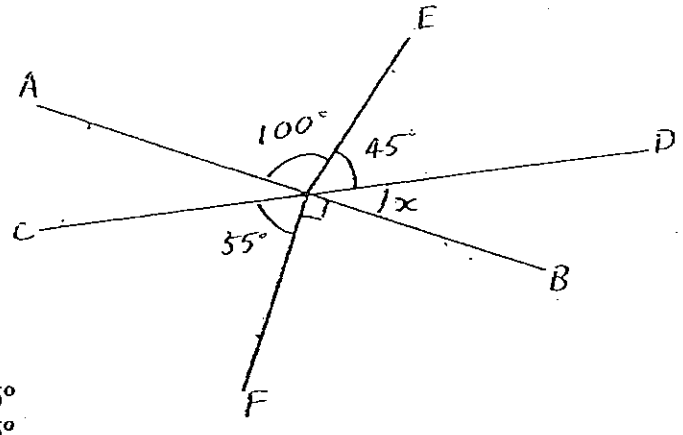
13.



ABCD is a rectangle. Find the area of the shaded region.

1. 21 m^2
2. 38 m^2
3. 42 m^2
4. 84 m^2

14. In the figure, not drawn to scale, AB and CD are straight lines. Find $\angle x$.



1. 25°
2. 35°
3. 45°
4. 70°

15 The ratio of the number of boys to the number of girls was 2:3 at first. After 4 boys went home, the ratio of boys to girls became 1:2.
How many girls were there?

1) 8
2) 12
3) 20
4) 24

METHODIST GIRLS' SCHOOL (Primary)
Continual Assessment 1 2008
Primary 6

Mathematics

Booklet B1

Name: _____ ( )

Class: P 6. _____

Booklet B1 (30)	

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 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. Find the value of $(20 + 10 \div 5) - 8 \times 2$

Ans: _____

17. Study the pattern below.

0, 1, 1, 2, 3, ___, 8, 13

What is the missing number?

Ans: _____

18. The average of 12 numbers is 9.
If the sum of the first 11 numbers is 89, find the 12^{th} number.

Ans : _____

19. Oscar sold 3 glasses of milk for every 7 bottles of soft drinks sold.
If he sold 12 glasses of milk, how many bottles of soft drinks did he sell?

Ans : _____

(Go on to the next page)

20. Express $5 + \frac{1}{4} + \frac{5}{8}$ as a decimal.

Ans: _____

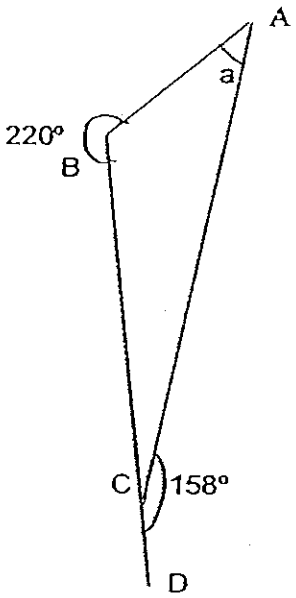
21. Evaluate $5\frac{1}{6} - 2\frac{5}{12}$. Give your answer in the simplest form.

Ans: _____

22. A rectangular tank with a square base is filled to the brim with water. The capacity of the tank is 2 500 cm^3. If the height of the tank is 100 cm, find the length of its base.

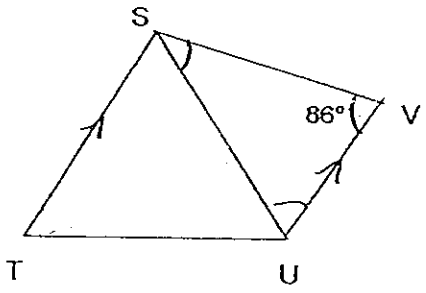
Ans: _____cm

23. In the figure, not drawn to scale, BCD is a straight line. Find ∠a.



Ans: _____ °

24. In the figure, not drawn to scale, STU is an equilateral triangle and ST is parallel to UV. Find ∠USV.



Ans: _____ °

25. Daisy bought 10 twenty-cent stamps and 15 ten-cent stamps. How much did she spend altogether?

Ans : $_____

(Go on to the next page)

10

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 answer in the units stated.
(20 marks)

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26. A pear costs 50 cents and a mango costs $2. Find the total cost of p pears and 5 mangoes.

Ans: _____ cents

27. Simplify $7e - 4e + 10 + 2e - 5$.

Ans : _____

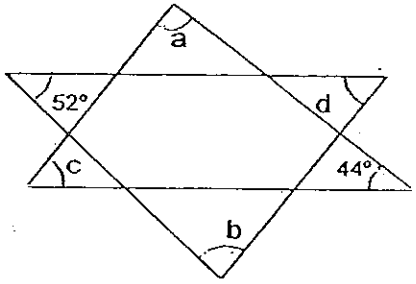
28. If Wen Jie spends $2 a day, his money will last for 6 days. How many <u>more</u> days will his money last if he spends 80 cents <u>less</u> each day?

Ans : _____

29. The ratio of Sandra's weight to Andrea's weight is 5:3.
If Sandra's weight is 40 kg, how much heavier is Sandra than Andrea?

Ans: _____ kg

30. Find the sum of angles a, b, c and d.



Ans: _____ °

31. 6.8 X 4 X [ ] = 13.6 X 1 000. What is the missing number in the box?.

Ans: _____

(Go on to the next page)

12

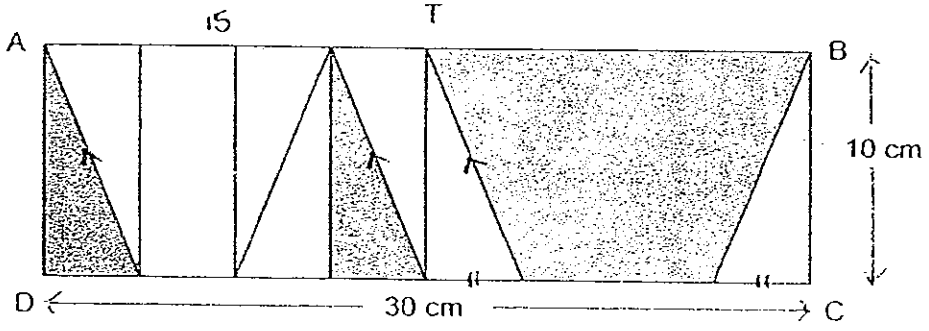
32. Jane spent $\frac{1}{6}$ of her pocket money and gave $\frac{2}{5}$ of the remainder to her sister. What fraction of her money did she have left? Express your answer in the simplest form.

Ans: _____

33. Find the product of $\frac{7}{8}$ and 4. Express your answer in the simplest form.

Ans: _____

34. ABCD is a rectangle. If AT = TB, find the area of the shaded regions.



Ans: _____ cm^2

(Go on to the next page)

35. Aminah was 125 cm tall. Now she is 140 cm tall. What is the percentage increase in her height?

Ans: _____%

(Go on to the next page)

METHODIST GIRLS' SCHOOL (Primary)
Continual Assessment 1 2008
Primary 6

Mathematics

Booklet B2

Name: _____ ( )

Class: P 6. _____

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

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

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

FOLLOW THE INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

For questions 36 to 48, show your workings clearly in the space below 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. Three friends, Billy, Chitra and Denny shared a sum of money.

Billy had $\frac{3}{4}$ of what Chitra had.

Chitra had twice as much as Denny.
Denny had $50 less than Billy.
How much was the sum of money?

Ans: _____ [3]

37. Tina and Siti shared some stickers in the ratio 7:5 respectively. After Tina had given 30 stickers to Siti, both of them had an equal number of stickers.
How many stickers did they have altogether?

Ans: _____ [3]

(Go on to the next page)

16

38. Gopal's scores for his Mathematics tests are shown in the table below.

Test 1	80
Test 2	76
Test 3	?

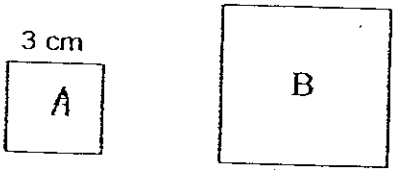
If he had wanted an average score of 81 marks for the 3 tests, how many marks should he score for the third test?

Ans: _____ [3]

39. A rectangular tank, 80 cm long and 25 cm wide was filled completely with water from 3 taps flowing simultaneously. Water flowed from each tap at a rate of 6 litres per minute. It took 3 minutes to fill up the tank. What was the height of the tank?

Ans: _____ [3]

40.



The ratio of the perimeter of square A to the perimeter of square B is 3 : 5.
Find the area of square B.

Ans: _____ [3]

41. Pauline has y stamps and Ali has 106 more stamps than she. Julia has half as many stamps as Pauline and Ali.

a) How many stamps does Julia have? Give your answer in terms of y.

b) If $y = 8$, how many stamps does Julia have?

Ans: (a) _____ [2]

(b) _____ [1]

(Go on to the next page)

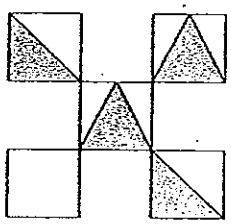
42. A shopkeeper had some apples. $\frac{2}{5}$ of them were red while the rest were green.

Liling bought $\frac{1}{4}$ of the red ones and $\frac{1}{3}$ of the green ones.

There were 84 apples left.
How many apples did Liling buy altogether?

Ans: _____ [4]

43.

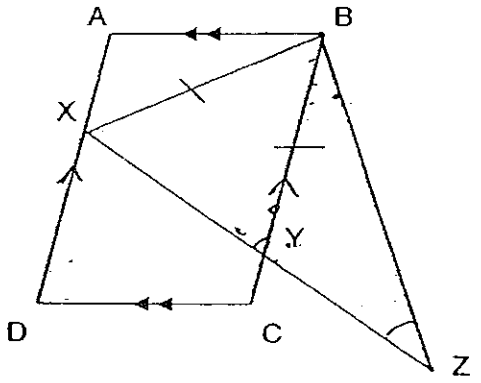


The figure is made up of 5 identical squares. If the area of the shaded parts of the figure is 72 cm^2, find the perimeter of the whole figure.

Ans: _____ [4]

(Go on to the next page)

44. In the figure, not drawn to scale, ABCD is a parallelogram. ∠BXY is an isosceles triangle such that BX=BY, ∠ADC = 80 °, ∠YBZ = 30° and ∠BZY = 35 °. Find ∠ABX.



Ans: _____ [4]

20

45. Sumin, Tania and Uma shared some beads among themselves.

Sumin received $\frac{3}{10}$ of the beads while Tania and Uma received the rest.

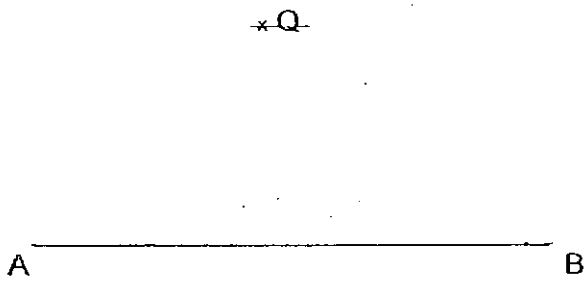
Tania received $\frac{4}{5}$ of what she and Uma received altogether.

If Sumin received 160 more beads than Uma, how many beads did Tania receive?

Ans: _____ [5]

(Go on to the next page)

46a. In the space below, draw a parallelogram ABCD in which BC = 5 cm and ∠ABC = 65°. The line AB has been drawn for you.



[2]

b. Measure the length of BD.

Ans: (b) _____ [1]

c. Draw a line parallel to AB, through the point Q. [2]

47. From January to February, a salesman's monthly income increased by 20%. However, from February to March, it decreased by 25 %.
If his income in March was $450 less than his income in January, what was his income in February?

Ans: _____ [5]

48. Rafi receives $2 from his mother for every $10 he saves. He also receives $3 from his father for every $20 he saves. He has $174 altogether after some time.

(a) How much of the money is from his mother?

(b) How much of it is from his savings?

Ans: (a) _____ [3]

(b) _____ [2]

End of Paper

34

ANSWER SHEET

EXAM PAPER 2008

SCHOOL : M G S PRIMARY SCHOOL
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : CA 1

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

16)6 17)5 18)19 19)28 bottles of soft drinks

20)5.875 21)2 ¾ 22)5cm 23)18° 24)34°

25)$3.50 26)(50p+1000)cent 27)5e+5 28)4

29)16kg 30)264° 31)500 32) ½ 33)3 ½

34)150cm^2 35)12%

36)50x9=450
The sum of money is $450.

37)7-5=2
2÷2=1
7+5=12
12x30=360
They had 360 stickers.

38)81x3=243
80+76=156
243-156=87
He scored 87 marks.

39)6x3=18
18x3=54
80x25=2000
54000 ÷ 2000=27
The height is 27cm

40)3x4=12
12÷3=4
4x5=20
20 ÷4=5
5x5=25
The area is 25cm^2

41)a)106 ÷ 2=53
Julia has (y+53) stamps.
b)53+8=61
Julia has 61 stamps.

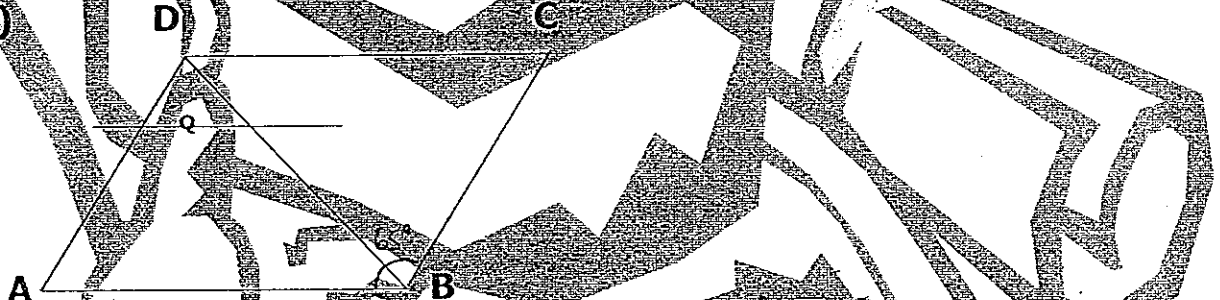
42)3+4=7
84÷7=12
12x3=36
She bought 36 apples.

43)72÷4=18
18x2=36
6x6=36
6x4=24
24x5=120
The perimeter is 120cm.

44) ∠BYZ=180° -(30° +35°)
=180° -65°
=115°
∠XBY=180° -(65° x2)
=50°
∠ABX=80° -50°
=30°
∠ABX equals to 30°

45)560°

46)a)



b)10cm

47)$5400

48)a)$26
b)$130