

SAT

METHODIST GIRLS' SCHOOL (Primary)
Semestral Assessment 1 2004
Primary 5

Mathematics

Wednesday, May 12, 2004

Booklet A

Name: _____

Class: P 5. _____

Total time for Booklets A, B and C: 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 5 carry 1 mark each. Questions 6 to 15 carry 2 marks each. For each question, 4 options are given. Choose the correct answer and shade your answer (1, 2, 3 or 4) on the Optical Answer Sheet provided. (25 marks)

1. What is the value of 3 in 1 638 751?

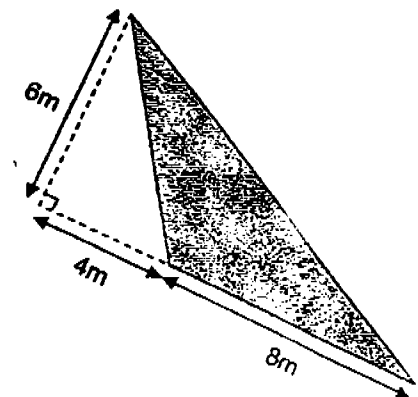
- (1) 3 000
- (2) 30 000
- (3) 300 000
- (4) 3000 000

2. Express 850g as a fraction of 2kg.

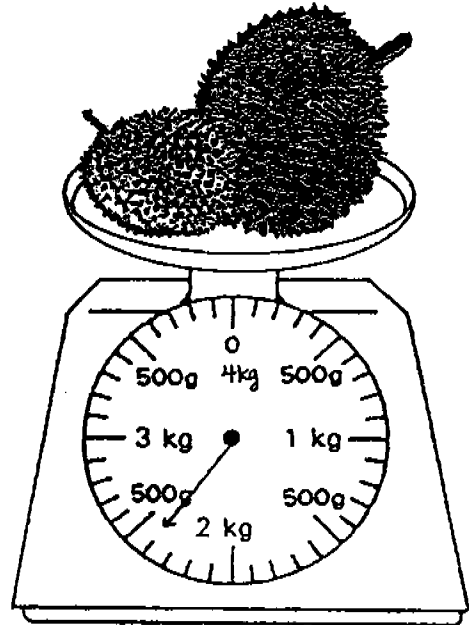
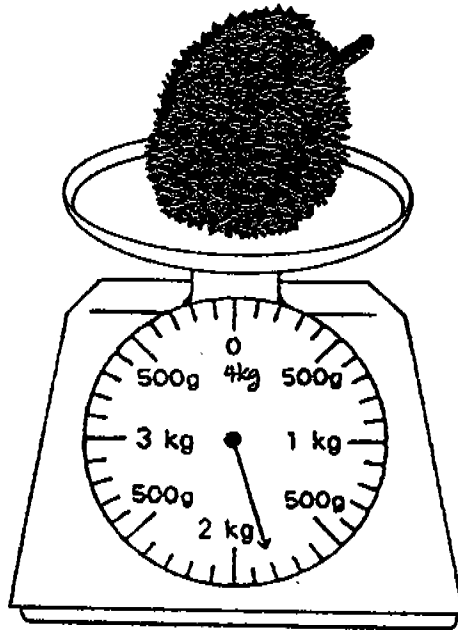
- (1) $\frac{17}{40}$
- (2) $\frac{17}{45}$
- (3) $\frac{17}{54}$
- (4) $\frac{17}{55}$

3. What is the area of the shaded triangle?

- (1) 12 m^2
- (2) 16 m^2
- (3) 24 m^2
- (4) 36 m^2



4. Look at the weighing scales below. What is the weight of the smaller durian?



- (1) 300g
(2) 600g
(3) 1kg 600g
(4) 2kg 400g
5. Susan sold 10 T-shirts and 25 skirts. What was the ratio of the number of T-shirts sold to the number of skirts sold?
- (1) 2 : 5
(2) 5 : 2
(3) 2 : 7
(4) 1 : 25
6. Henry had 210 white beads and 12 times as many blue beads. What was the total number of beads he had?
- (1) 222
(2) 432
(3) 2520
(4) 2730

7. What is the missing number in the box?

$$\frac{2}{5} \times 510 = 3 \times \boxed{}$$

- (1) 34
- (2) 68
- (3) 102
- (4) 204

8. Mary took $2\frac{1}{2}$ h to travel to a park and $\frac{3}{5}$ h less to travel back home. How much time did she take to travel to and fro?

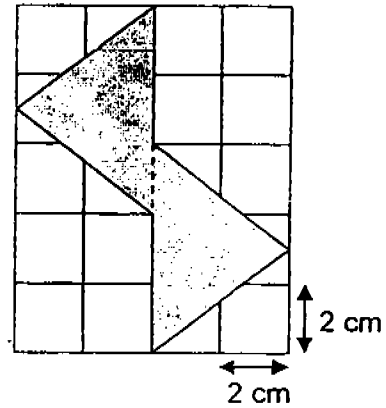
- (1) $2\frac{2}{3}$ h
- (2) $3\frac{1}{10}$ h
- (3) $3\frac{2}{5}$ h
- (4) $4\frac{2}{5}$ h

9. Keith collected $\frac{2}{3}$ of the number of phonecards that Bob collected. They collected 240 phonecards in all. How many phonecards did Bob collect?

- (1) 48
- (2) 96
- (3) 144
- (4) 160

10. What is the area of the shaded figure?

- (1) 24 cm²
- (2) 12 cm²
- (3) 3 cm²
- (4) 6 cm²

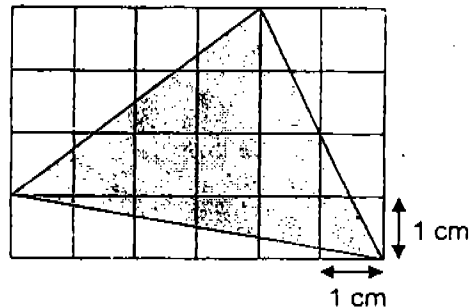


11. The area of a rectangle is 36 cm². Its breadth is 4 cm. What is its perimeter?

- (1) 15 cm
- (2) 16 cm
- (3) 21 cm
- (4) 26 cm

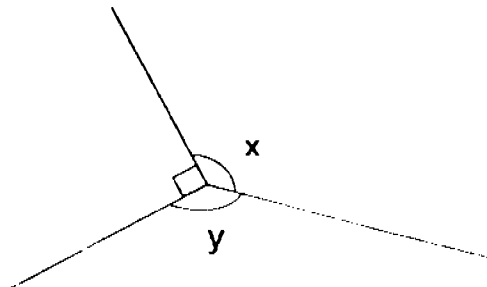
12. What is the area of the shaded triangle?

- (1) 8 cm²
- (2) 11 cm²
- (3) 12 cm²
- (4) 13 cm²



13. In the figure $\angle x = \angle y$. Find $\angle x$.

- (1) 45°
- (2) 90°
- (3) 135°
- (4) 270°



14. Carol and Sharon shared a sum of money in the ratio of 3 : 5. Sharon received \$60 more than Carol. What was the amount Carol received?

- (1) \$30
- (2) \$36
- (3) \$60
- (4) \$90

15. The ratio of the number of apples to the number of pears is 1 : 6. The ratio of the number of pears to the number of oranges is 3 : 1. If there are 10 oranges, find the number of apples.

- (1) 5
- (2) 10
- (3) 25
- (4) 40

Questions 16 to 35 carry 1 mark each. Write your answers in the spaces provided. Give your answers in the units stated. (20 marks)

16. Write nine million, eight hundred and seven thousand and forty in numerals.

Ans: _____

17. Using any 3 digits in the box below, form the smallest 3-digit number which is a multiple of 3.

4, 7, 1, 2

Ans: _____

18. What is the missing number in the box?

$$52 \times 2 + 20 - (56 \div 7) = \boxed{} + 100$$

Ans: _____

19. What is the missing number in the box?

$$788\,239 = 700\,000 + 8 \times \boxed{} + 8239$$

Ans: _____

20. Janet baked 1 956 cupcakes and packed them into the boxes of 20 each. If she had 136 cupcakes left, how many boxes of cupcakes did she pack?

Ans: _____

21. How many eighths are there in $6\frac{3}{4}$?

Ans: _____ eighths

22. What is the missing number in the box?

$$3\frac{1}{8} - 2\frac{5}{6} = \square$$

Ans: _____

23. $\frac{6}{10}$ of a number is 60. What is $\frac{3}{4}$ of the number?

Ans: _____

24. What is the missing number in the box? Express your answer as a mixed number.

$$1\frac{1}{5} + 2\frac{1}{3} = 2 + \square$$

Ans: _____

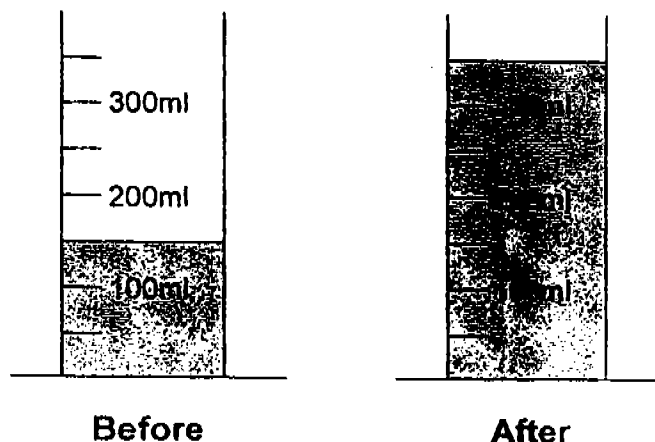
25. Ravi read $\frac{2}{9}$ of a storybook last night and $\frac{1}{3}$ of it this morning. What fraction of the book was not read?

Ans: _____

26. $\frac{3}{4}$ of a pizza was shared equally among 4 children. What fraction of the whole pizza did each child get?

Ans: _____

27. After pouring in some water into a jar, the water level rose. How much water was poured into the jar?

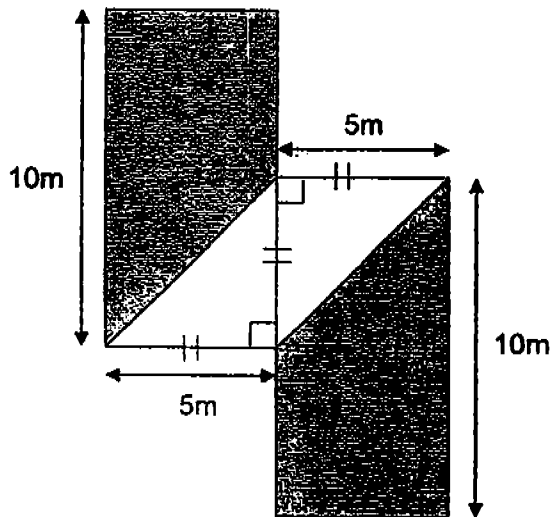


Ans: _____ ml
281 of 611.

28. Find the value of $\frac{2}{3} \times \frac{6}{15}$

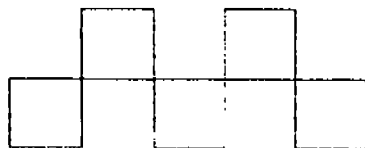
Ans: _____

29. What is the total area of the shaded regions?



Ans: _____ m²

30. The figure is made up of 4-cm squares.
What is the perimeter of the figure?



Ans: _____ cm

31. Express the ratio of 42 : 56 : 14 in its simplest form.

Ans: _____

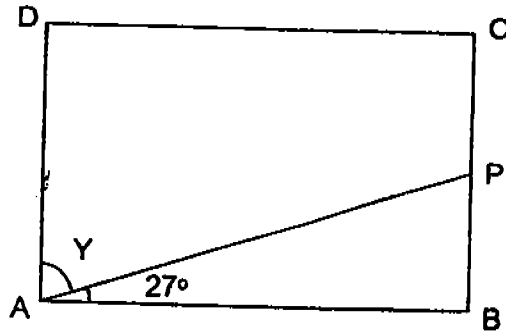
32. Chong Wen is 39 kg and his father is 20 kg heavier.
Find the ratio of Chong Wen's weight to his father's weight.

Ans: _____

33. Elliot, Fred and Greg shared some marbles in the ratio 5 : 2 : 7. After Greg gave Elliot 18 marbles, Elliot had 4 times as many marbles as Fred. How many marbles did Fred have?

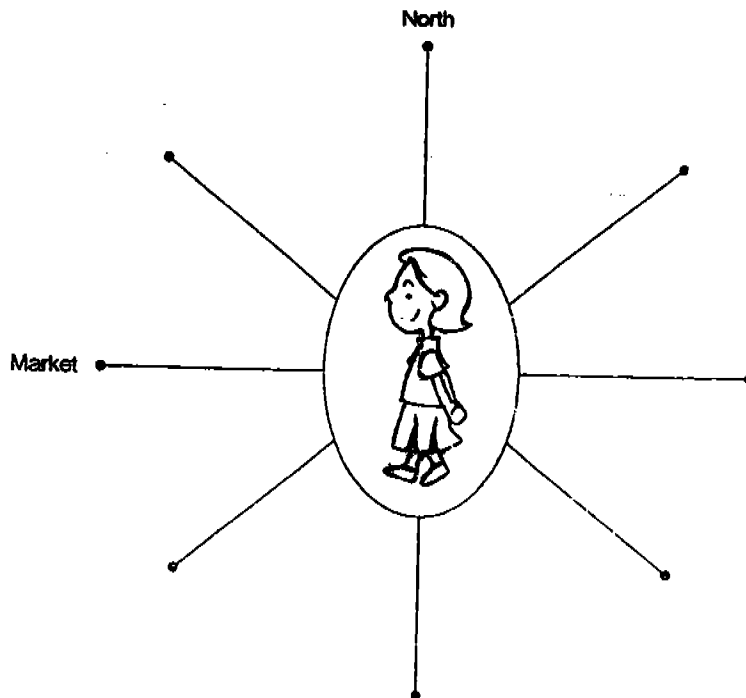
Ans: _____

34. In the figure (not drawn to scale), ABCD is a rectangle and $\angle BAP = 27^\circ$. Find $\angle y$.



Ans: _____°

35. Jane is facing the market. If she turns anti-clockwise to face south-east, what angle did she turn through? The diagram below is not drawn to scale.



Ans: _____°

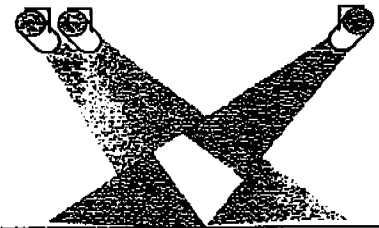
SAT

METHODIST GIRLS' SCHOOL (Primary)
Semestral Assessment 1 2004
Primary 5

Mathematics

Wednesday, May 12, 2004

Booklet B2



Name: _____

Class: P 5. _____

Total time for Booklets A, B and C:
2h 15 min

Booklet A (25)	
Booklet B1 (20)	
Booklet B2 (55)	
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 50, show your working 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. (55 marks)

36. Mr Lim bought 17 chairs and Mr Tan bought 26 similar chairs. Mr Tan paid \$1 458 more than Mr Lim. What was the cost of each chair?

Answer: _____ (2m)

37. Nicholas is 15 years older than Marcus and 11 years younger than Francis. If their total age is 149, find Marcus's age.

38. $\frac{1}{4}$ of the beads in a box was green and the rest were blue. After 24 blue beads were removed, $\frac{1}{3}$ of the remaining beads were green.

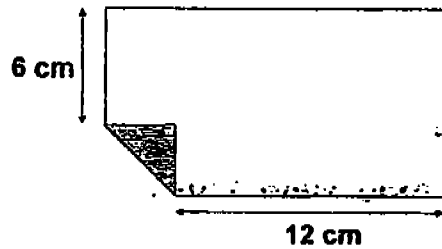
How many beads were there in the box at first?

Answer: _____ (2m)

39. Ali had 120 more marbles than rubber bands. After giving away $\frac{1}{3}$ of the marbles, he had 70 more rubber bands than marbles. How many marbles did he have at first?

Answer: _____ (3m)

40. A piece of paper in the shape of a rectangle is folded at one corner. The area of the folded corner is 8 cm^2 . What is the area of the paper before it was folded?



Answer: _____ (4m)

41. Ming had 2 times as many stamps as Serene. Joel had 2 times as many stamps as Ming. If the 3 children had 252 stamps altogether, how many stamps must Joel give to Ming and Serene so that all of them would have the same number of stamps?

Answer: Ming: _____

Serene: _____ (4m)

42. Peter spent $\frac{7}{12}$ of his monthly salary on rent and gave $\frac{3}{5}$ of the remainder to his wife. He had \$320 left. How much did he spend on rent?

Answer: _____ (4m)

43. Susan had \$60 and her brother Mark had \$42. After their father gave each of them an equal amount of money, Susan had $\frac{1}{3}$ as much money as Mark. How much money did their father give each of them?

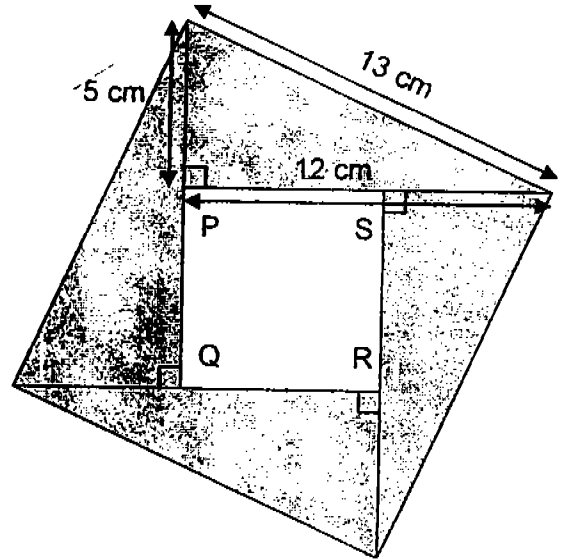
Answer: _____ (4m)

44. Mrs Lee had a roll of ribbon $9\frac{4}{5}$ m long. She cut 6 pieces of ribbon each $\frac{7}{10}$ m long and 3 pieces of ribbon each $\frac{1}{5}$ m long from it. If she cut the remaining ribbon into 3 equal pieces; what will be the length of each piece of ribbon?
(Express your answer in metres.)

Answer: _____ (4m)

45. The figure below is made up of the square PQRS and 4 identical right-angled triangles.

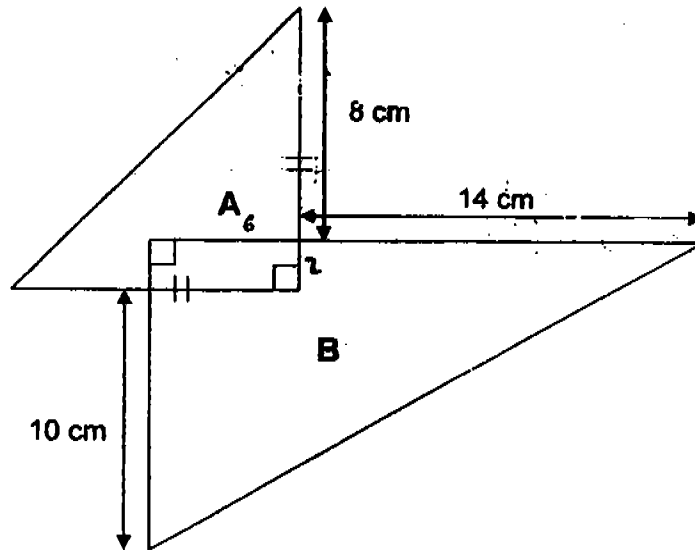
- a) What is the total area of the shaded parts?
- b) What is the perimeter of the square PQRS?



Answer: a) _____ (2m)

b) _____ (2m)

46. The figure formed by 2 different right-angled triangles has an overlapping region that forms a 6 cm by 2 cm rectangle. Triangle A has two equal sides. What is the area of the figure?



Answer: _____ (4m)

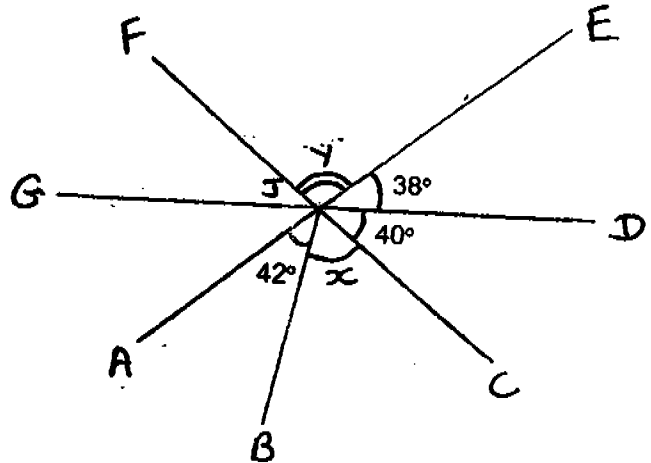
47. Jane has a bouquet of flowers that is made up of white roses and tulips in the ratio of 2 : 1. Among the tulips, the ratio of orange tulips to purple tulips is 4 : 3.
- a) What fraction of the tulips are orange?
 - b) There are 30 more roses than the orange tulips in the bouquet. How many stalks of flowers are there in the bouquet?

Answer: a) _____ (1m)

b) _____ (3m)

48. In the figure (not drawn to scale), AJE, BJ, CJF and DJG are straight lines.

- a) Find $\angle x$.
- b) Find $\angle y$.



Answer: a) $\angle x =$ _____ (2m)

b) $\angle y =$ _____ (2m)

49. Every month, Brian saves $\frac{3}{8}$ of his allowance and spends the rest of it.

His sister, Celia, saves $\frac{2}{7}$ of her allowance and spends the rest of it.

She spends \$35 every month. Brian takes 10 months less than his sister to save a sum of \$420.

- (a) How long does Celia take to save \$420?
(b) What is Brian's monthly allowance?

Answer: (a) _____ (2m)

(b) _____ (3m)

50. Miss Chandra has some strawberry tarts and chocolate tarts in 2 boxes. In Box A, the number of strawberry tarts and chocolate tarts are in the ratio 5 : 4. In Box B, the number of strawberry tarts is 2 times the number of chocolate tarts. Miss Chandra transfers half the chocolate tarts from box A to box B. The number of tarts in box A becomes 126 and the ratio of the number of strawberry tarts to the number of chocolate tarts in box B becomes 2 : 7.
- How many chocolate tarts have been transferred from box A to box B?
 - After the transfer, how many more tarts are there in box A than in box B?

Answer: a) _____ (2m)

b) _____ (3m)

87A7

METHODIST GIRLS SCHOOL (PRIMARY)
SEMESTRAL ASSESSMENT 1, 2004
PRIMARY 5 MATHEMATICS

- 1) 2
2) 1
3) 3
4) 2
5) 1
6) 4
7) 2
8) 4
9) 3
10) 1
11) 4
12) 2
13) 3
14) 4
15) 1
16) 9807040
17) 174
18) 16
19) 10000
20) 91
21) 54
22) 7/24
23) 75
24) 1 8/15
25) 4/9
26) 3/16
27) 200
28) 4/15
29) 75
30) 80
31) 3 : 4 : 1
32) 39 : 59
33) 12
34) 63°
35) 135°
36) \$ 162
37) 36 years old
38) 96 beads
39) 570 marbles
40) 160 cm^2
41) a) 12 stamps b) 48 stamps
42) \$ 1120
43) \$ 116
44) $1 \frac{2}{3} \text{ m}$
45) a) 120 cm^2
 b) 28 cm
46) 158 cm^2
47) a) 4/7 b) 63 stalks of flowers
48) a) 60° b) 102°
49) a) 30 months b) \$ 56
50) a) 36 tarts b) 72 tarts