

SAZ

METHODIST GIRLS' SCHOOL (Primary)
End-of-Year Examination 2004
Primary 5

Mathematics

Booklet A

Name: _____

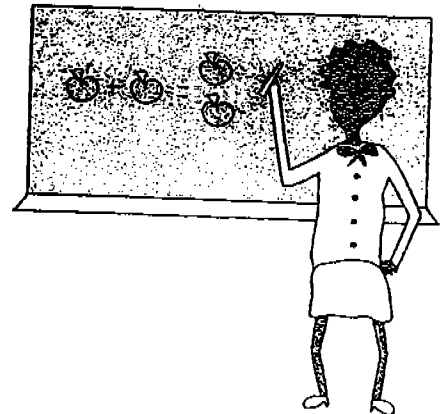
Class: P 5.

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 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. Town X has a population of 215 624. Round this off to the nearest ten thousand.

- (1) 200 000
- (2) 215 000
- (3) 216 000
- (4) 220 000

2. What is the largest possible odd number that can be formed from the digits 0, 4, 7 and 8?

- (1) 8 047
- (2) 8 407
- (3) 8 470
- (4) 8 740

3. Mrs Lee baked some pineapple tarts and put them into jars of 98 each. If she filled 9 jars and had 34 pineapple tarts left, how many tarts did she bake?

- (1) 848
- (2) 882
- (3) 916
- (4) 980

4. Find the value of $\frac{2}{5} + \frac{1}{4} + \frac{1}{2}$

- (1) $\frac{4}{11}$
- (2) $\frac{13}{20}$
- (3) $1\frac{3}{20}$
- (4) $2\frac{7}{20}$

5. $\frac{3}{5}$ of Jason's fish are guppies. $\frac{1}{4}$ of the guppies are male and the rest are female. What fraction of the fish are female guppies?

~~(1)~~ $\frac{3}{4}$

~~(2)~~ $\frac{3}{10}$

~~(3)~~ $\frac{3}{20}$

~~(4)~~ $\frac{9}{20}$

6. Express 400g as a percentage of 8kg.

~~(1)~~ 1%

~~(2)~~ 2%

~~(3)~~ 5%

~~(4)~~ 20%

7. A bag of beans is divided into 2 packets in the ratio of 3 : 7. If the smaller packet weighs 210g, what is the weight of the bigger packet?

~~(1)~~ 90g

~~(2)~~ 148g

~~(3)~~ 300g

~~(4)~~ 490g

8. Out of 42 children at a party, 18 were boys and the rest were girls. Find the ratio of the number of girls to the number of boys in its simplest form.

~~(1)~~ 4 : 3

~~(2)~~ 3 : 4

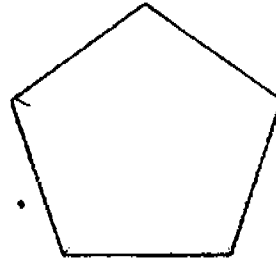
~~(3)~~ 4 : 7

~~(4)~~ 7 : 4

9. The average height of 3 children, Meilin, Ali and Raja is 94 cm. If Meilin's height is 78 cm and Ali's height is 90 cm, what is Raja's height?
- (1) 114 cm
 - (2) 172 cm
 - (3) 168 cm
 - (4) 262 cm

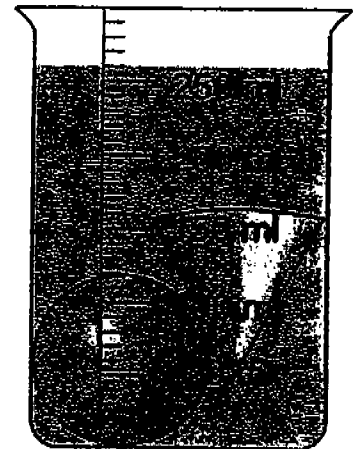
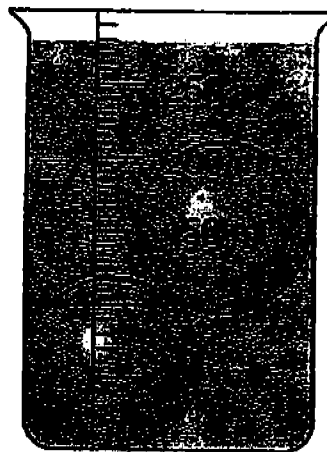
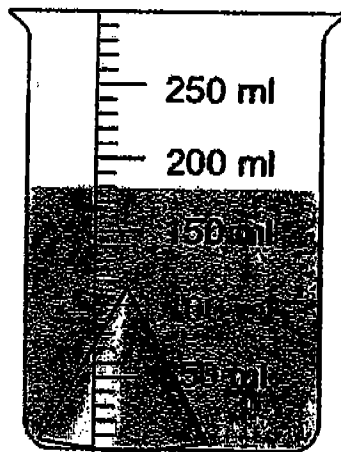
10. How many lines of symmetry does the figure below have?

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



11. Tap A can fill up a tank with water in 12 minutes. Tap B can fill up the same tank in 4 minutes. How long will it take to fill up 3 such tanks if both taps are turned on at the same time?
- (1) 3 minutes
 - (2) 8 minutes
 - (3) 9 minutes
 - (4) 24 minutes
12. Carol had \$33 and her sister had \$8. After their father gave each of them an equal amount of money, Carol had twice as much money as her sister. How much money did Carol receive from her father?
- (1) \$ 8.50
 - (2) \$17.00
 - (3) \$25.50
 - (4) \$34.00

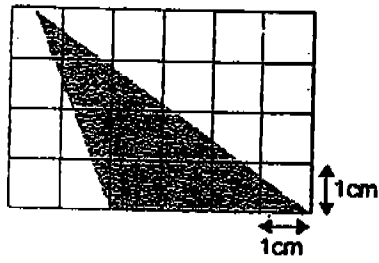
13. Joel has just finished reading 204 pages of a storybook. He plans to finish reading the rest of the book in the next 7 days by reading the same number of pages each day. If he reads 35% of the book in the next 5 days, how many pages does the book have?
- (1) 239
(2) 253
(3) 300
(4) 400
14. The 3 beakers shown contain the same volume of water. The cones and marbles shown in the beakers are identical. What is the volume of water in each beaker?



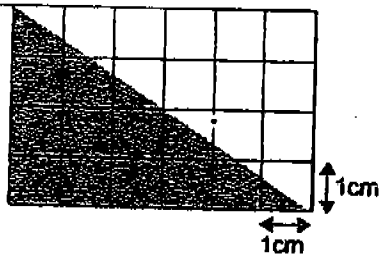
- (1) 20 cm³
(2) 80 cm³
(3) 120 cm³
(4) 160 cm³

15. Which of the following figures has the largest shaded area?

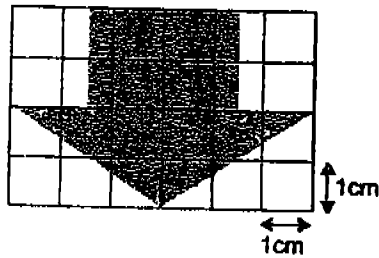
(1)



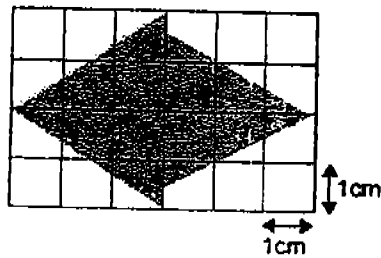
(2)



(3)



(4)



METHODIST GIRLS' SCHOOL (Primary)
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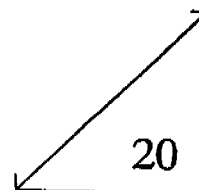
Mathematics

Booklet B1

Name: _____

Class: P 5. _

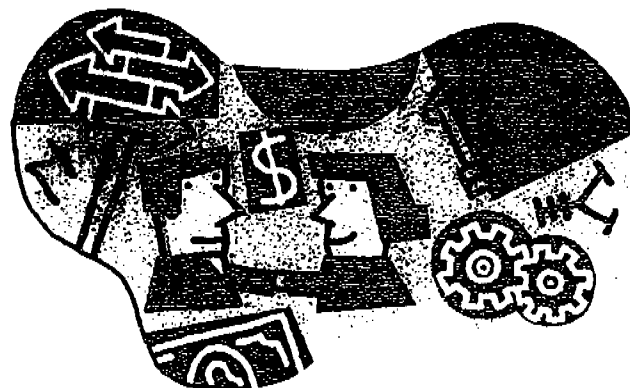
Total time for Booklets A, B1 and B2: 2h 15 min



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CAREFULLY.**

ANSWER ALL QUESTIONS.



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. In 67 948, the value of the digit 7 is _____.

Ans: _____

17. What is the missing number in the box?

$$3 \times 10 \times \boxed{} = 2640$$

Ans: _____

18. Find the value of $54.1 + 2.94$

Ans: _____

19. 9.99 is 0.9 more than _____.

Ans: _____

20. 6 kg of rice cost \$9.90. How much would Mrs Lee have to pay if she had bought 8 kg of rice?

Ans: \$ _____

21. 2 chairs and 1 table cost \$540. If 1 chair and 1 table cost \$380, what is the cost of 4 chairs?

Ans: \$ _____

22. Evaluate $74 \times 9 + (132 \div 12) - 50$

Ans: _____

23. Arrange the following from the biggest to the smallest.

$$\frac{7}{4}, \frac{5}{8}, 2\frac{1}{2}, \frac{3}{16}$$

Ans: _____

24. There are 800 pupils in a school. 52% of the pupils are boys. How many girls are there in the school?

Ans: _

25. Express 15% of 3 hours in minutes.

Ans: _____ min

26. If Mrs Thomas sells her antique jewel box at E-bay for \$765, she will make a loss of ~~15%~~ 15%. How much should the selling price be if she wants to make a gain of 25%?

Ans: \$ _____

27. A shopkeeper had $4\frac{1}{2}$ kg of rice. He sold $1\frac{4}{5}$ kg of rice. How much rice did he have left?

Ans: _____ kg

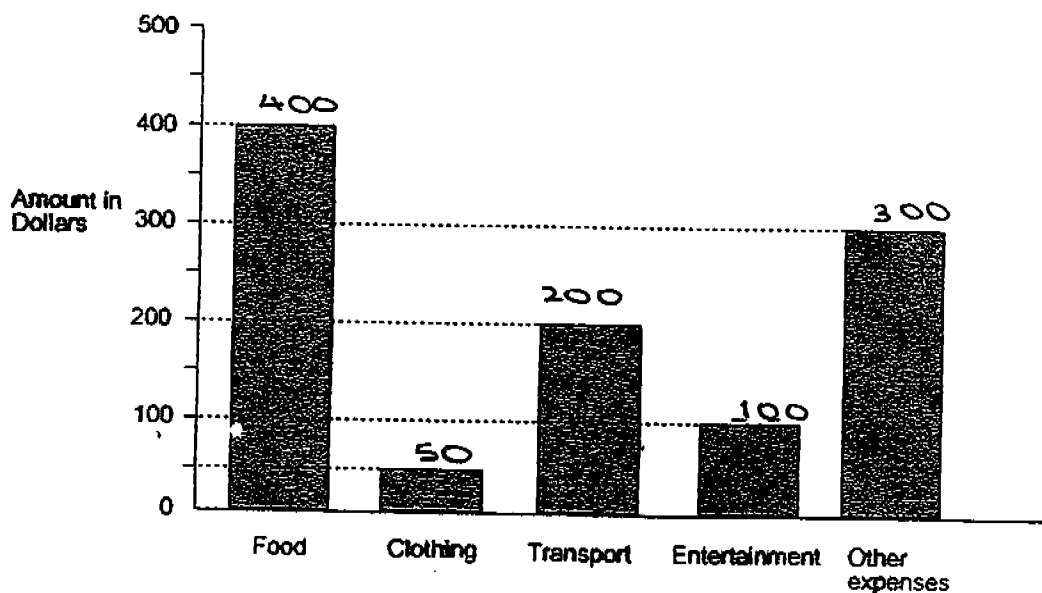
28. Mr Tan is 1.84 m tall. His son is $\frac{5}{8}$ of his height. How tall is his son?
Express your answer in metres.

Ans: _____ m

29. A piece of string is cut into 3 pieces in the ratio 3 : 1 : 6. What fraction of the whole string is the longest piece? Express the fraction in its simplest form.

Ans: _____

The graph below shows how Jeremy spends his salary each month. Study the graph and answer questions 30 and 31.



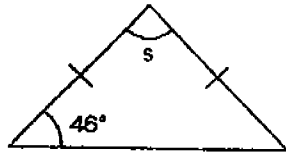
30. Express the amount spent on food as a ratio of the amount spent on transport in the simplest form.

Ans: _____

31. What is Jeremy's monthly salary?

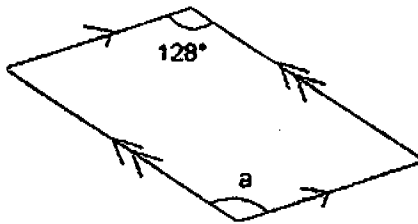
Ans: \$ _____

32. Find \angle s in the triangle below.



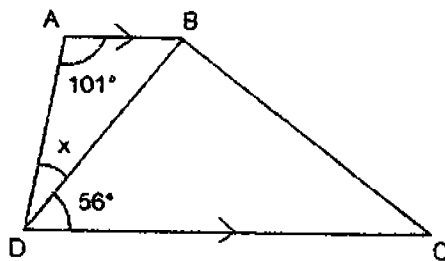
Ans: _____ °

33. The figure below is a parallelogram. Find the value of \angle a.



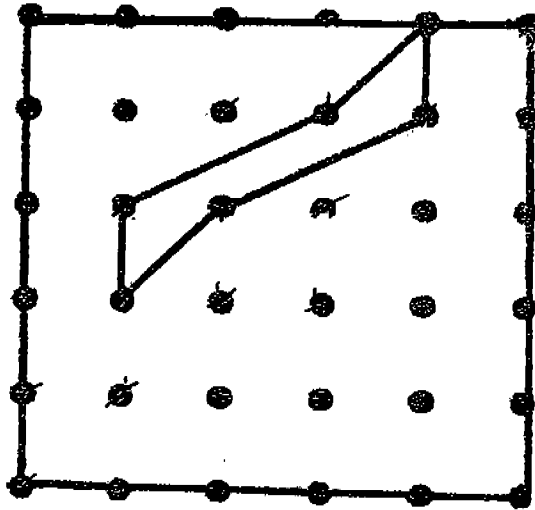
Ans: _____ °

34. ABCD is a trapezium. Find the value of \angle x.



Ans: _____ °

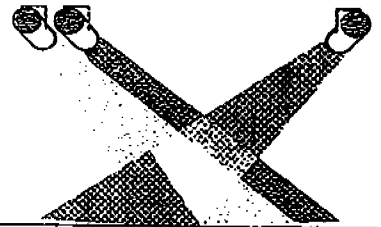
35. Draw 3 units of the given shape to show that it can tessellate.



METHODIST GIRLS' SCHOOL (Primary)
End-of-Year Examination 2004
Primary 5

Mathematics

Booklet B2



Name: _____

Class: P 5.

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

Booklet A (25)	
Booklet B1 (20)	
Booklet B2 (55)	
Total: (100)	

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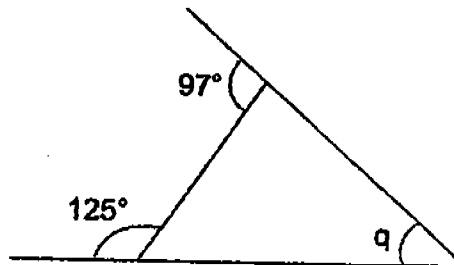
ANSWER ALL QUESTIONS.

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. Sheela weighs $\frac{5}{7}$ as heavy as Rita. If Rita weighs 49 kg, what is Sheela's weight?

Answer: _____ (2m)

37. Find the value of the angle marked q . All angles are not drawn to scale.



Answer: _____ (2m)

38. $\frac{1}{5}$ of the fish in a pond are guppies and $\frac{1}{3}$ of the remainder are swordtails. The rest are angel fish. If there are 32 angel fish in the pond, how many guppies are there?

Answer: _____ (2m)

39. Carl has 40 picture cards and Azman has 30% more picture cards than Bala. If the three boys have 293 picture cards altogether, how many picture cards does Azman have?

Answer: _____ (3m)

40. $\frac{1}{2}$ kg of prawns and $\frac{1}{3}$ kg of fish cost \$16. Mrs Li bought 1 kg of prawns and 1 kg of fish for \$44. How much did she pay for 1 kg of fish?

Answer: _____ (4m)

41. Mr Richard had a sum of money. He gave $\frac{1}{6}$ of it to his wife and spent $\frac{3}{5}$ of the remainder on groceries. He gave the rest to his 3 children. Each child was given \$4.
- a) What fraction of the money did each child get?
b) How much money did he have at first?

Answer: a) _____ (2m)

b) _____ (2m)

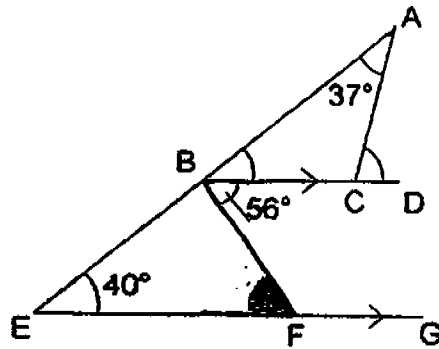
42. Last year the ratio of the number of boys to girls in a bowling club was 3 : 2. This year 121 new members joined the club and there were 4 times as many boys and twice as many girls. How many girls are there in the club now?

Answer: _____ (4m)

43. In the figure below, ABE, BCD and EFG are straight lines. $BD \parallel EG$.

Find:

- a) $\angle BFE$
- b) $\angle ABC$
- c) $\angle ACD$



Answer: $\angle BFE$: _____ (1m)

$\angle ABC$: _____ (1m)

$\angle ACD$: _____ (2m)

44. The table below shows the postage rates for sending parcels from Singapore to other countries.

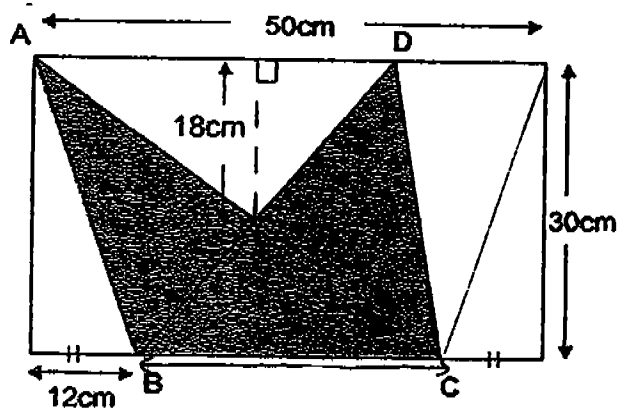
Postage Rates		
Country	First 5kg	Additional kg or part thereof
Malaysia	\$16	\$3
North America	\$50	\$9

- a) How much would it cost to send a 5.25kg parcel to Malaysia?
b) How much would it cost to send an 8kg parcel to North America?

Answer: a) _____ (2m)

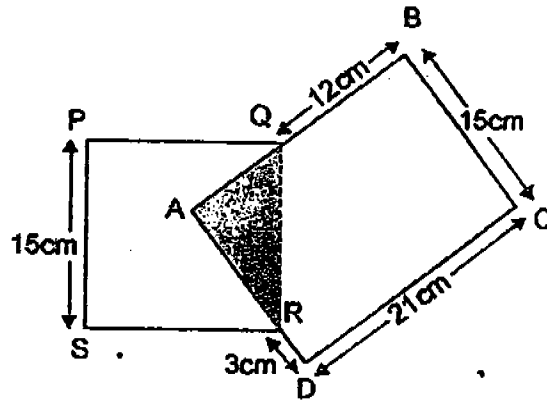
b) _____ (2m)

45. In the figure shown below $\triangle BCD$ overlaps $\triangle ABC$, find the area of the shaded part of the figure.



Answer: _____ (4m)

46. The figure below is formed by placing rectangle ABCD, 21cm by 15cm, on top of the 15-cm square PQRS.
- Find the perimeter of the figure.
 - Find the area of the rectangle that is not covering the square.



Answer: a) _____ (1m)

b) _____ (3m)

47. Peiling always gives 25% of her income to her parents. When her income is increased by 15%, she gives \$75 more to her parents. What is Peiling's income after the increase?

Answer: _____ (4m)

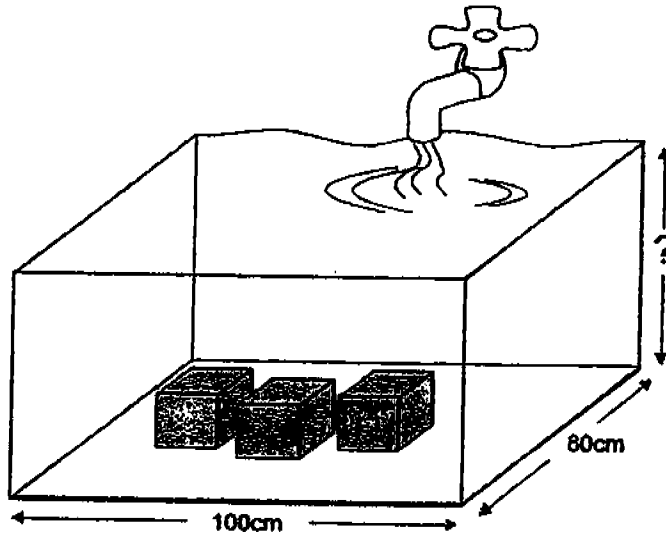
48. In January, Peter, Kassim, Bala and Li Beng saved \$1860 altogether. In February, when Kassim's savings increased by \$20, Bala's savings decreased by \$32 and Li Beng's savings doubled, the savings of the four children became equal

- a) What was Bala's savings in January?
- b) What was Li Beng's savings in February?

_____ (3m)

Answer: _____ (1m)

49. Three identical cubes of side 20 cm are placed in an empty rectangular container. The container is 100 cm long and 80 cm wide. The container is then filled to the brim with water from a tap at a rate of 8 litres per minute. It takes 77 minutes to fill up the container.
- a) How many cubic centimetres of water is needed to fill up the container?
(1l = 1000 cm³)
 - b) What is the height of the container?
 - c) What will be the height of the water level if all three cubes are taken out of the container?



Answer: a: _____ (1m)
b: _____ (3m)
c: _____ (1m)

50. Some pupils in Maple Green School sat for an examination. 25% of the pupils scored grade A*. The number of pupils who scored grade A was 7 more than those who scored grade A*. The number who scored grade B was $\frac{3}{4}$ of those who failed. $\frac{2}{25}$ of the pupils failed. If 11 pupils scored grade C, how many pupils sat for the examination?

Answer: _____ (5m)

END OF PAPER ☺
Please check your work.

METHODIST GIRLS' SCHOOL (PRIMARY)
END OF THE YEAR EXAMINATION 2004
PRIMARY 6 MATHEMATICS

SAZ

- 1) 4
2) 2
3) 3
4) 3
5) 4
6) 3
7) 4
8) 1
9) 1
10) 4
11) 3
12) 2
13) 4
14) 3
15) 3
16) 7000
17) 88
18) 57.04
19) 9.09
20) 13.20
21) 640
22) 627
23) $2\frac{1}{2}$ $7/4$ $5/8$ $3/16$
24) 384 girls
25) 27
26) 1125
27) $2\frac{7}{10}$
28) 1.15
29) $3/5$
30) 2 : 1
31) 1050
32) 88
33) 128
34) 23
35)
36) 35 kg
37) 42°
38) 12 guppies
39) 143 picture cards
40) \$ 36
41) a) $1/9$ b) \$ 36
42) 44 girls
43) 56°
 40°
 77°
44) a) \$ 19 b) \$ 77
45) 624 cm^2
46) a) 96 cm b) 261 cm^2
47) \$ 2300
48) a) \$ 560 b) \$ 528
49) a) 616000 cm^3
 b) 80 cm
 c) 77 cm
50) 50 pupils