Name	,-, 11 12,-	 ()
Class:	Primary 6		

CHIJ ST NICHOLAS GIRLS' SCHOOL



Primary 6

Preliminary Examination 2 - 2006

Mathematics Booklet A

12th September 2006

Duration of Paper: 2 hours 15 minutes

Do not open the booklet until you are told to do so. Follow all instructions carefully.

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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

(20 marks)

- 1) Find the value of $86 48 + 6 \times 10 + 6 \div 2$
 - 1) 71

2) 101

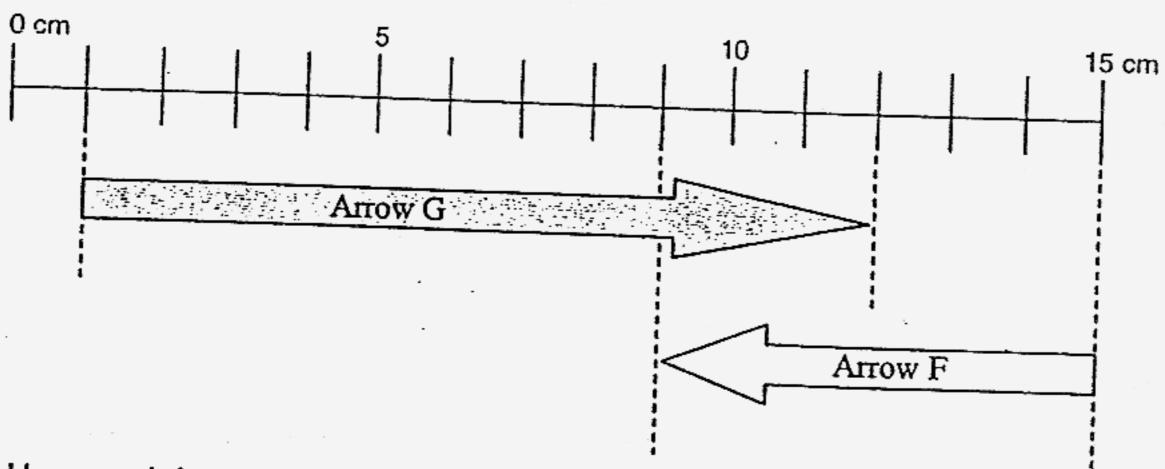
3) 223

- 4) 443
- 2) What is the sum of 5 tenths and 64 hundredths written as a decimal?
 - 1) 0.564

2) 0.69

3) 1.14

- 4) 50.064
- 3) The figures below show the measurements of Arrow G and Arrow F.



How much longer is Arrow G than Arrow F?

1) 6 cm

2) 5 cm

3) 3 cm

4) 4 cm

- 4) Mrs Chen bought 3 kg of flour. She used 1.8 kg. What fraction of the flour had she left?
 - 1) $\frac{2}{3}$

2) $\frac{2}{5}$

3) $1\frac{2}{3}$

- 4) $1\frac{1}{5}$
- 5) Jonathan spent \$ 7.80 on some stamps. 15 of them were worth 22¢ and the rest were worth 50¢. How many stamps did he buy in all?
 - 1) 24

2) 15

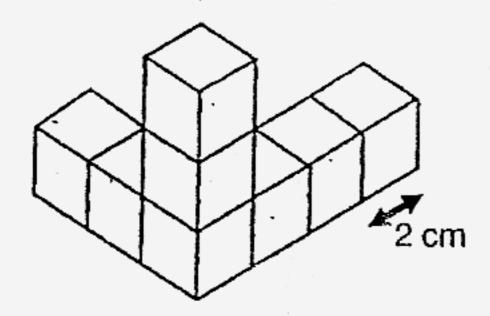
3) 9

- 4) 6
- 6) Jia Ping bought a t-shirt and a pair of shoes for a total of \$102. The t-shirt cost \$30 less than the pair of shoes. How much did she pay for the pair of shoes?
 - 1) \$72

2) \$66

3) \$42

- 4) \$36
- 7) The figure below is made up of identical cubes. Find the volume of the figure.



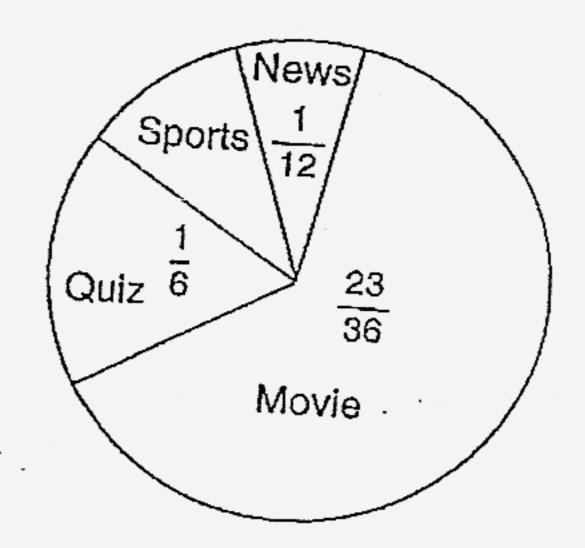
1) 8 cm³

2) 16 cm³

3) 32 cm³

4) 64 cm³

8) The pie chart below shows the programmes Lisa watched for a total of 3 hours.

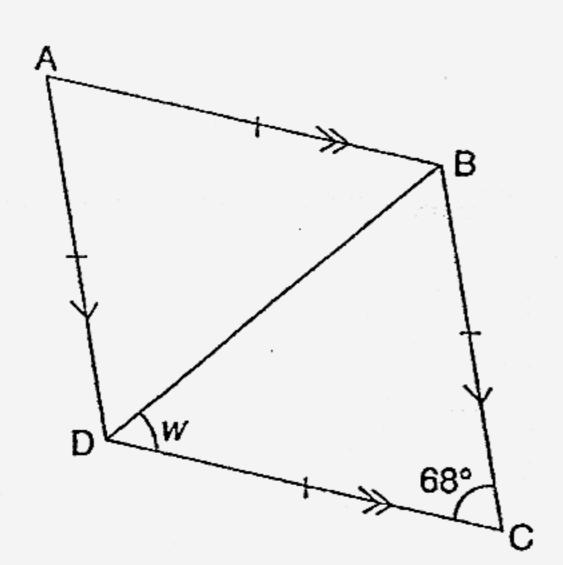


- How long did she spend watching the Sports programme?
- 1) 60 min

2) 40 min

3) 30 min

- 4) 20 min
- 9) The figure below is not drawn to scale. ABCD is a rhombus. Find $\angle w$.



1) 45°

2) 56°

3) 68°

4) 112°

- 10) Chin Chin Provision Shop charges \$0.60 for every $\frac{1}{2}$ kg of goods delivered. Mrs Gopal bought $10\frac{1}{2}$ kg of goods. How much does she need to pay for her purchase?
 - 1) \$12.60

2) \$10.60

3) \$6.60

- 4) \$6.30
- 11) Mohan has thrice as much money as Dennis. Ramesh has \$60 less than half of what Mohan has and \$140 more than Dennis. How much money does Mohan have?
 - 1) \$600

2) \$720

3) \$1 200

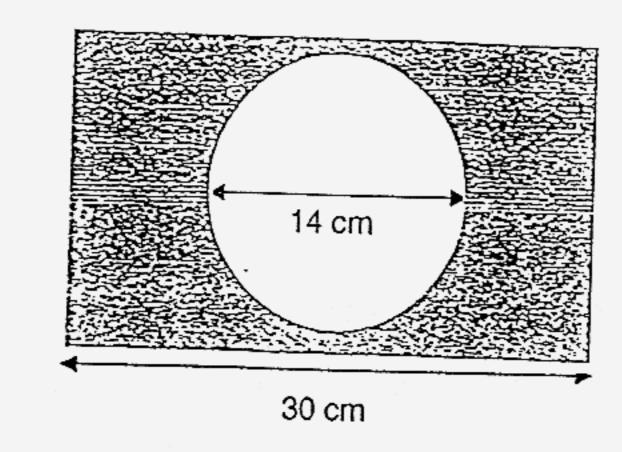
- 4) \$1 320
- 12) One durian costs 4 times as much as one honeydew. Mr. Rama has just enough money to buy 2 durians and 2 honey dews. However, he wants to buy only honeydews. What is the maximum number of honeydews he can buy with the money he has?
 - 1) 12

2) 10

3) 8

4) 4

13) The figure shows a circle enclosed in a rectangle. The area of the shaded portion is 386 cm². Find the ratio of the breadth of the rectangle to its length. (Take π to be $\frac{22}{7}$)

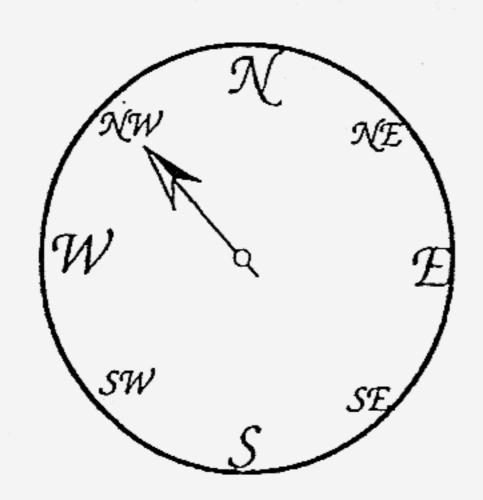


1) 7:10

2) 6:5

3) 3:10

- 4) 3:5
- 14) The figure below shows a compass pointing to Northwest. In which direction will it point to if it turns 315° anti-clockwise?



1) North

2) Northeast

3) West

4) Southwest

Julian left Singapore at 20 45 to go to Malacca which is 285 km away. If he travelled at an average speed of 75 km/h, at what time did he arrive at Malacca?

1) 1.33 a.m.

- 2) 11.53 a.m.
- 3) -12.25 a.m.
- 4) 12.33 a.m.

Julian left Singapore at 20 45 to go to Malacca which is 285 km away. If he travelled at an average speed of 75 km/h, at what time did he arrive at Malacca?

1) 1.33 a.m.

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- 3) 12.25 a.m.
- 4) 12.33 a.m.

Questions 16 to 25 carry 1 mark each. For each question, write your answers in the spaces provided. Give your answers in the units stated.

Do not write in this space.

(10 marks)

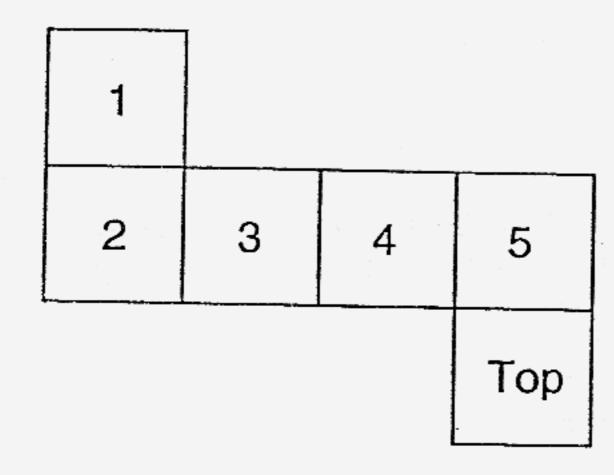
16) Find the average of 900 m, 0.6 km and 3.9 km.

ns:______ m

17) A movie lasted for 2 hours and 55 minutes. It ended at 10.30 p.m.. At what time did the movie start?

Ans:

18) The figure below is the net of a cube. Which one of the faces, 1, 2, 3, 4 or 5 is the base of the cube?



Ans:_____

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9) Meena has twice as many \$2 notes as many \$2 notes does she have?	s \$5 notes. If she has a to	tal of \$225, how
	Ans :	
The selection		
The sales of exercise books in a books 15, 17, 15 and 9 respectively. There Friday to Sunday. What was the avera week?	hop from Monday to Thurs was no sales of exercis ge sales of exercise book	sday were se books from s for the entire
•	Ans:	
$\frac{2}{5}$ of Paul's stamps is equal to $\frac{4}{7}$ of Jnumber of Paul's stamps to that of Joe's	Joe's stamps. What is the stamps?	e ratio of the
	Ans :	
n the figure below, how many squares mumber of shaded squares to the number	nust be shaded so that the r of unshaded squares is 5	ratio of the : 3?
	-	
	į	
		1

8

Ans:____

23)	Express	$\frac{3}{4}$	% as a f	raction.

Do not write in this space.

Ans	٠	\
7113	-	

24) 80 story books were borrowed from the National Library on Sunday. On Monday, 56 books were loaned out. What was the percentage decrease in the number of books borrowed from the library?

Ans:______%

25) Connie has 37 beads. She puts *m* beads into each of the 6 boxes. She gave the remaining beads to her sister. Express the number of beads that her sister received in terms of *m*.

Ans : ____

26 to 35 carry 2 marks each. Write your answers in the spaces provided. Give your answers in the units stated.

Do not write in this space.

(20 marks)

26) Mr Pang is 49 years old. His son is 24 years younger than he is. When his son is 30 years old, how old will Mr Pang be?

Ans:____

- 27) Arrange the four letters, A, B, C and D given below in ascending order of their values.
 - A: $\frac{2}{3} \frac{2}{11}$
 - B: $\frac{2}{5} \frac{2}{11}$
 - C: $\frac{2}{7} \frac{2}{11}$
 - D: $\frac{2}{9} \frac{2}{11}$

Ans:

28) The table below shows the price and the number of Christmas cards on sale at ABC bookstore.

Do not write in this space.

Price	Number of cards per packet
\$ 18.20 for every 5 packets	20

• Mr Reeve needs to buy 600 cards for his clients during Christmas. How much money did he have to pay for the cards?

Ans:\$		
A112 . D		

29) The table shows the parking rates at Smiley Carpark. How much does Ivan have to pay if he parks his car for 1 h 40 min?

Time	Charges
First $\frac{1}{2}$ hour	\$ 0.90
Subsequent $\frac{1}{2}$ hour or part thereof	\$ 0.50

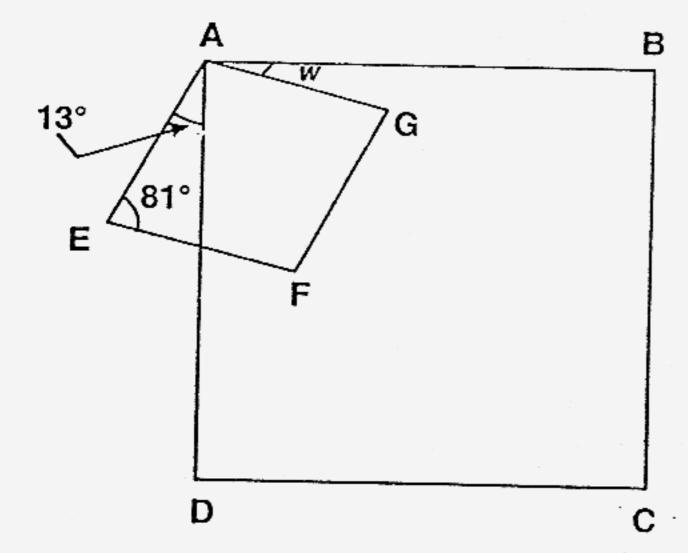
Ans	:\$			

30) A supermarket is having a promotion. The price of an apple is \$0.55. For every this space. 8 apples bought, one will be given free. If Anita paid \$8.80 for the apples, how many apples did she have in all?

Do not

Ans:

31) In the figure below, not drawn to scale, ABCD is a square and AEFG is a rhombus. Find $\angle w$.



Ans:

		_
32	2) Last week, Judy worked for a total of 52 hours in hours	Do not write in
	The state of which were overline.	this space
	If the basic hourly rate is \$8 and the overtime rate is $1\frac{1}{4}$ times the basic rate,	
	find her total wages for last week.	
	Tage Week.	
	Ans:\$	
33	The length and the breadth of a rectangle is in the ratio 13:12.	
	What fraction of the perimeter is the breadth?	
	Ans:	
	A113.	
.		
34)	The cost of four digital cameras is 60 % of the cost of a computer notebook.	
	If a digital camera costs \$255, what is the cost of a computer notebook?	
	Ans:\$	
35)	Mr Thomasais annuali	
33)	Mr Thomson's annual income is \$ k. Every month, his expenditure and savings	
	are the sound, if the specific about every month and cause the rest have	
	does he save in a month? (Note: assume that his monthly income is the same)	
	Ans:\$	

For questions 36 to 48, show your working clearly in the space below each question and write your answers in the space provided. The number of marks available is shown in the brackets () at the end of each question or part-question.

Do not write in this space.

(50 marks)

In the space below, draw an isosceles triangle in which PQ = 6 cm, PR = 6 cm and $\angle PRQ = 50^{\circ}$. The line PQ has been drawn for you.

6 cm

37) The perimeter of a square of side 16 cm is $\frac{4}{5}$ the perimeter of a rectangle. If the length of the rectangle is 3 times its breadth, find the breadth of the rectangle.

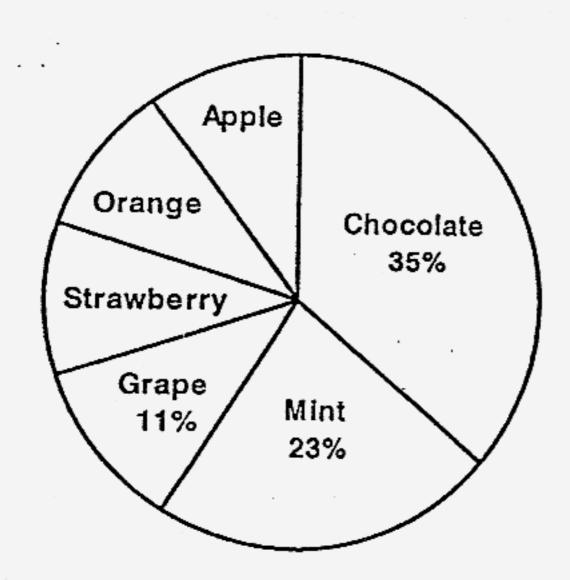
> Ans:_ (3 m)

38) If 3 girls can fold 3 paper cranes in 3 minutes, how many paper cranes can 30 girls fold in half an hour?

Do not write in this space.

Ans:	10	`ـــ
,	(3 i	m.

- 39) The daily sales of candies are shown in the pie chart below.
 - (a) If 66 grape-flavoured candies were sold, how many candies were sold in all?
 - (b) How many fewer mint-flavoured candies than chocolate-flavoured candies were sold daily?



Ans : (a)	(1	m)
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40)	Britany bought some stickers. She gave $\frac{6}{15}$ of them to her sister and $\frac{1}{3}$ of the remainder to her brother. Then she shared the rest of her stickers with her 6 friends. What fraction of the stickers did each of her friends receive?	Do not write in this space
	Ans :(3 m)	
41)	At 9.30 a.m., Pete set off from Town Q to Town P at an average speed of 72 km/h. At the same time, Lenny set off from Town P to Town Q at an average speed of 96 km/h. 15 minutes later, they were still 48 km apart. Find the distance between Town Q and Town P.	

this space.

Ans:____

___ (3 m)

Do not write in this space.

42) Mrs. Tan had $11\frac{1}{5}$ kg of flour. She used $1\frac{1}{5}$ kg of it to bake a big cake. The remaining flour was used to make 25 identical small cakes. If she wanted to make another 2 small cakes and 1 kg of flour cost \$1.50, how much did she need to pay for the additional flour?

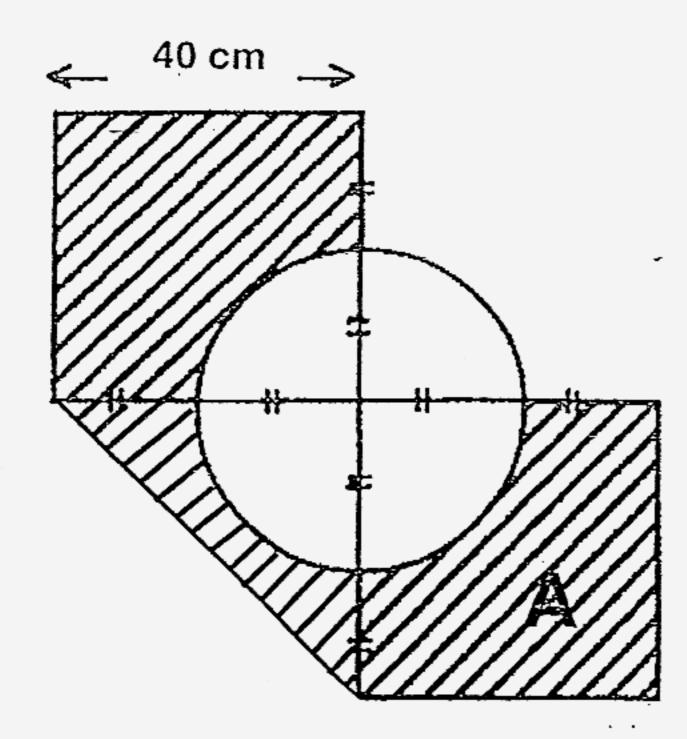
Ans:_____(4 m)

43) The figure below consists of 2 identical squares, a triangle and a circle.

Do not write in this space.

- (a) Find the perimeter of the shaded part labeled A.
- (b) Find the area of the shaded parts.

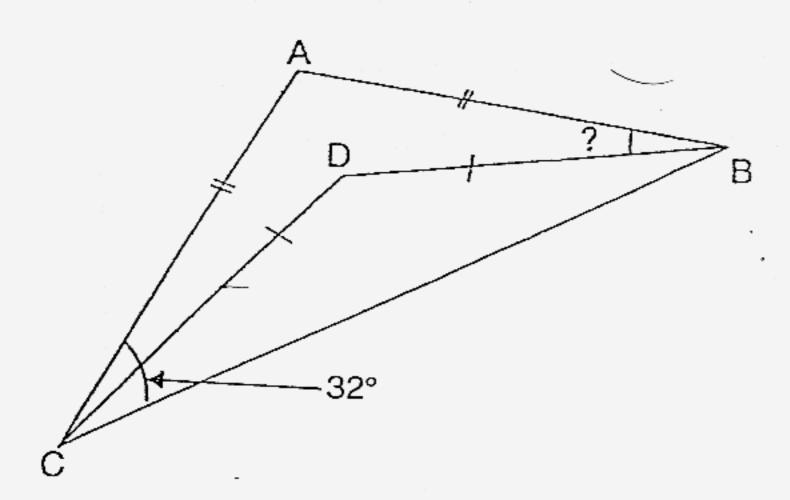
(Take $\pi = 3.14$)



Ans : (a)	(2 m	١
· "· · · · · · · · · · · · · · · · · ·	 14 111	

44) ABC and DBC are isosceles triangles. Given that \angle ACB = 32° and \angle CDB is 26° more than \angle CAB, find \angle ABD.

Do not write in this space.



Ans :_____ (4m)

45) Kevin had 5 stacks of twenty-cent coins. There were 8 coins in each stack. He exchanged all these coins for five-cent coins. He then used all the five-cent coins to form a square which had an equal number of coins along each of its side. What is the total number of coins along 3 sides of the square?

Do not write in this space.

Ans:_____(5m)

46) The total mass of 17 bottles and 16 cans is 12.93 kg. If the total mass of Do not write in 13 bottles and 12 cans is 9.81 kg, find the difference in mass between this space. a bottle and a can.

Ans : ______(5m)

47) A rectangular tank measures 50 cm long, 39 cm wide and 14 cm high. It has a water level of 6 cm.

Do not write in this space.

(a) What fraction of the tank is filled with water?

(b) If water flows from a tap into the tank at a rate of 10 cm³ per second, how long does it take for the tank to be completely filled with water? (Give your answer in minutes)

Ans: (a) _____(2m)

(b) _____ (3m)

Do not 48) After Haoming donated 16 % of his savings to his school and spent part of it on write in a bicycle, he was left with \$330. He received an extra 20% of the original this space. amount of his savings from his mother and had \$430 in all. (a) Find the amount of money Haoming donated to his school. (b) Find the price of the bicycle. Ans: (a) _____ (3m)(b) _ (2m)

23

End of Paper

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

____16. 1800

A ALLES

17. 1935

18. 1

19. 50

20. 8

21. 10 : 7

22. 10

23. $\frac{3}{400}$

24. 30

25 37.6m

26. 54

27. D, C, B, A

28. 109.20

29. 2.40

30. 18

31. 4

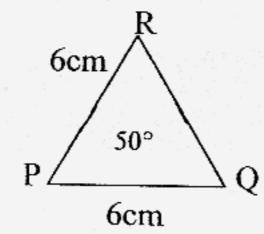
32. 432

33. $\frac{6}{25}$

34. 1700

35. $\frac{k}{12} - 950$

36.



37. 10cm

38. 300

39a. 60039b. 72

 $-40. \frac{2}{25}$

41. 90km

42. \$1.20

43a. 151.4cm

43b. 3058cm²

44. 13°

45. 121

46 0.12kg

47a. $\frac{3}{7}$

47b. 26mins

48a. \$80

48b. \$90