<u>Tao Nan School</u> <u>Primary 6 Mathematics Mid-Year Examination – 2012</u>

Name:() Class: Primary 6 ()	Date : <u>11 May 2012</u> Time : <u>8.00a.m 8.50 a.m.</u>
Parent's Signature :	Marks :/ 100
	-

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS PAPER 1 (BOOKLET A)

INSTRUCTIONS TO CANDIDATES

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- Answer all questions.
- 5. Shade your answers in the Optical Answer Sheet (OAS) provided.
- 6. You are not allowed to use a calculator.

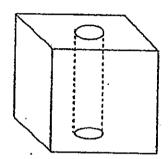
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet.

(20 marks)

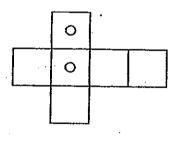
- 1) Which of the following numbers has the digit '9' in the ten thousands place?
 - (1) 497 500
 - (2) 549 700
 - (3) 754 900
 - (4) 975 400
- 2) Which one of the following is likely to be the speed of a sprinter running in a 100-metre dash?
 - (1) 1 m/s
 - (2) 10 m/s
 - (3) 1 m/min
 - (4) 10 m/min
- 3) How many litres are there in 10 000 cm³?
 - (1) 1 8
 - (2) 10 &
 - (3) 100 ℓ
 - (4) 1000 €
- 4) Which one of the following is equivalent to 30%?
 - (1) $\frac{3}{5}$
 - (2) $\frac{18}{60}$
 - (3) $\frac{3}{100}$
 - (4) $\frac{15}{60}$

5) The value of the digit '6' in 963 975 is 'times as large as the number 6. (1) 1000 (2) 6000 (3) 10 000 (4) 60 000 6) Ahmad left Johor Bahru at 18 45. He arrived in Singapore 55 min later. What time did he reach Singapore? (1) 7 a.m. (2) 7 p.m. (3) 7.40 a.m. (4) 7.40 p.m. 7) In a class of 40 pupils, there are 25 girls. What percentage of the pupils are boys? (1) 15% (2) 37.5% (3) 60% (4) 62.5% 8) Leonard is facing Southwest. If he turns 135° in the anticlockwise direction, which direction will he be facing? (1) North (2) South (3) East (4) West	(1) 1000 (2) 6000 (3) 10 000 (4) 60 000 Ahmad left Johor Bahru at 18 45. He arrived in Singapore 55 min later. What time did he reach Singapore? (1) 7 a.m. (2) 7 p.m. (3) 7.40 a.m. (4) 7.40 p.m. 7) In a class of 40 pupils, there are 25 girls. What percentage of the pupils are boys? (1) 15% (2) 37.5% (3) 60% (4) 62.5% Leonard is facing Southwest. If he turns 135° in the anticlockwise direction, which direction will he be facing? (1) North (2) South (3) East					
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(1) North (2) South (3) East	(1) North (2) South (3) East	•	62.5%	•		
(1) North (2) South (3) East	(1) North (2) South (3) East					
(1) North (2) South (3) East	(1) North (2) South (3) East					
(2) South (3) East	(2) South (3) East	8) Leon direc	ard is facing Southwest. tion will he be facing?	If he turns 135° in th	e anticlockwise dire	ection, which
(3) East	(3) East	(1)	North			
		(2)	South			
(4) West	(4) West	(3)	East		•	
		(4)	West			
			:	•	•	
		-				
				a		
		•		-		_

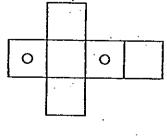
- 9) At a farm, there are 33 more ducks than chickens. If there are 11 chickens, what is the ratio of the number of ducks to the number of chickens?
 - (1) 1:3
 - (2) 1:4
 - (3) 3:1
 - (4) 4:1
- 10) The figure below shows a cube with a hollow centre.



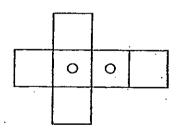
Which one of the following is a net of the cube?



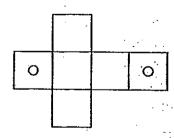
(1)



(3)



(2)



(4)

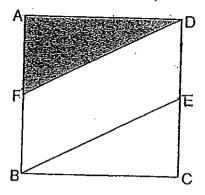
11) Points E and F are mid-points of Square ABCD. What fraction of the square is unshaded?





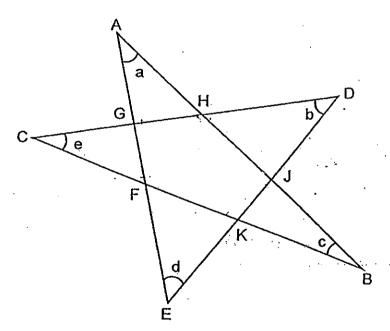


(4)
$$\frac{3}{4}$$



- 12) The length of a rectangle is twice its breadth. What is the ratio of the breadth to its perimeter?
 - (1) 1:6
 - (2) 1:2
 - (3) 2:3
 - (4) 1:3
- 13) It takes 60 painters 12 days to paint a school. How many painters are required to paint the same school in 20 days?
 - (1) 36
 - (2) 40
 - (3) 100
 - (4) 180

- 14) Jasmine, Susan and Yvonne shared a sum of money. The ratio of Jasmine's share to Susan's share was 3 : 2. The ratio of Susan's share to the sum of Jasmine's and Yvonne's share was 3 : 5. If Yvonne received \$8, find the sum of money shared by the three of them.
 - (1) \$32
 - (2) \$52
 - (3) \$128
 - (4) \$248
- 15) In the figure below, AB, BC, CD, DE, and EA are straight lines. Find the value of $\angle a + \angle b + \angle c + \angle d + \angle e$.



- (1) 150°
- (2) 180°
- (3) 300°
- (4) 360°

Name	÷		()	Г	
Class	: Primary 6 ()			 _	_/
Parent	's Signature :		 .	•		20

MATHEMATICS PAPER 1 (BOOKLET B)

INSTRUCTIONS TO CANDIDATES

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Write your answers in this booklet.
- 6. You are not allowed to use a calculator.

6)	Find the value of 54.48 ÷ 6.	•
		Ans:
		-
7)	Round off 19 999 to the nearest the	ousand.
		Ans:
		••
· }	Express 1.05 as a mixed number in	the simplest form
,		i the antiplest forth.
	•	Ans:
		Tuto:
,		
)	The area of a square is 121 cm ² . W	hat is the perimeter of the square?
		·
	·	

. . .

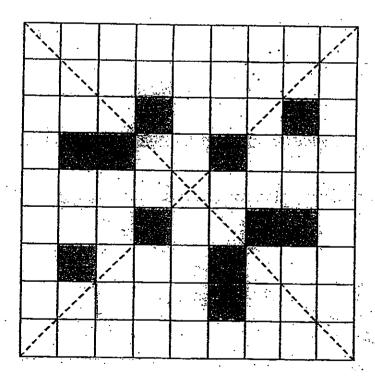
20) The table below shows the prices of identical toy guns sold at two stalls in a market.

Stall	Price of toy guns
X	2 for \$3
Y	3 for \$4

Which stall offers a lower price for a toy gun?

	~	
Ans:	Stall	

21) The figure below is made up of squares. Shade three more squares so that the figure has two lines of symmetry.



22) Express $\frac{1}{6}$ as a percentage.

Ans: ______ %

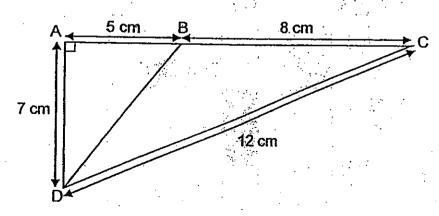
23) Simplify 14k - 3 - 6k + 6.

Ans: _____

24) How many one-thirds are there in $5\frac{1}{3}$?

Ans: ____

25) ACD is a right-angled triangle. Find the area of Triangle BCD.

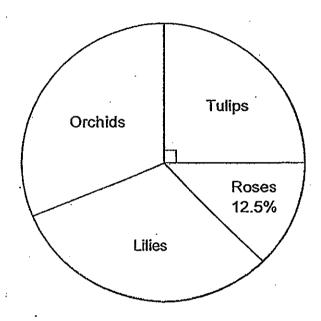


Ans: cm²

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

26) The pie chart shows the types of flowers in a nursery.

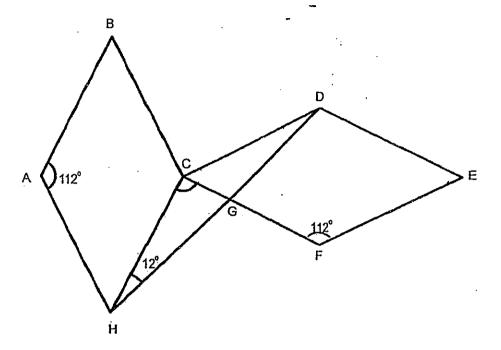
The number of orchids is equal to the number of lilies.



What fraction of the flowers are orchids and lilies?

Ans:	:	 7 V	

27) The figure below is made up of two identical rhombuses, ABCH and CDEF. ∠HAB is 112°, ∠EFC is 112° and ∠CHG is 12°. Find ∠GCH.

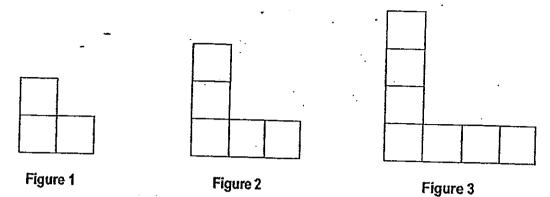


Ans:

Malik and Jonas have some coins. If Malik gives 41 coins to Jonas, both of them will have an equal amount of coins. If Jonas gives 41 coins to Malik, Malik will have thrice as many coins as Jonas. How many coins does Jonas have?

Ans: _____

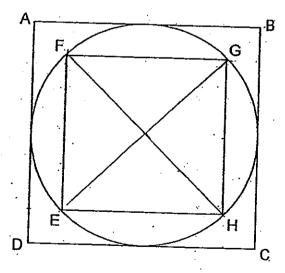
29) Square tiles are used to form the patterns as shown below.



How many tiles are needed to form Figure 10?

_	
Ans:	<u> </u>

The figure below is made up of 2 squares and a circle.
The area of the Square EFGH is 98 cm², what is the area of Square ABCD?



Ans:		•	cm ²
			 MII



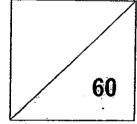
<u>Tao Nan School</u> <u>Primary 6 Mathematics Mid-Year Examination – 2012</u>

Name	:	·	(Date : <u>11 May 2012</u>
			:	

Class : Primary 6 () Time : <u>10.00 a.m. – 11.40 a.m.</u>

Parent's Signature :

MATHEMATICS PAPER 2

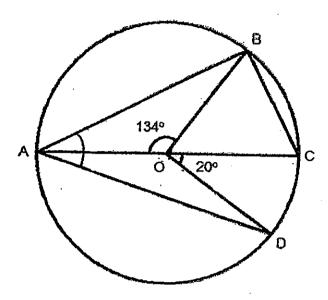


INSTRUCTIONS TO CANDIDATES

- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully.
- 4. Answer all questions.
- 5. Show your working clearly as marks are awarded for correct working.
- You are allowed to use a calculator.

tor e	each questior	carry 2 marks each. and write your answers in the	ers in the	spaces	ng clea s provid	rly in th	r questio	provided ns which 0 marks)
1)		s now 36 years old a ir ages two years ago		times a	s old a	s her d	laughter.	Find the
	-							
		£*						
	· ·				Α	ns:		years
2)	The table t	pelow shows the numb	er of cups	of Milo	drank	by pup	ils in a sc	hool.
		Number of cups of M	/lilo 0	1	2	3		٠
		Number of pupils	10	130	110	150		٠.
	What fract	tion of the pupils drant	cat least 2	cups c	f Milo?	,		
				٠		•	. ,	
	·					i.		
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3) In the figure below, ABC and AOD are triangles. O is the centre of the circle. AC is the diameter of the circle. Find ∠DAB.



r, reta

•				
Ans:	-	•	•	
		_		

4) Mr Lee spent some money on a trip and used 20% of the remaining amount to pay for his household bills amounting to \$100. He then gave what was left to his wife. How much money did Mr Lee have at first if his wife received 50% of it?

Ans: \$_____

5)	There were 52 questions in a Mathematics quiz. 3 points were awarded for each correct answer and 1 point was deducted for each incorrect answer. If Amy attempted all 52 questions and scored 108 points, how many questions did she										
	answer correctly?										
	-										

Ans: __

For questions 6 to 18, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [] at the end of each question or part-question.

(50 marks)

Joan completed $\frac{1}{5}$ of a jigsaw puzzle on the first day. On the second day, she completed $\frac{2}{3}$ less than the first day. If she completed 48 pieces on the second day, how many pieces are there in the jigsaw puzzle?

A na.	ro	
Ans:	[3m	Н
٠.	 	

Faizal and Zainal took part in a marathon. When Faizal finished the marathon in 5 hours, Zainal had completed $\frac{4}{7}$ of the race. Faizal's speed was 6 km/h faster than Zainal's. Find Zainal's speed.

Ans: _____[3m]

8)	Suhailin and Muthu shared some sweets. Suhailin had 80 more sweets than Muthu. After Suhailin gave 20% of her sweets to Muthu, Muthu had 20 more sweets than Suhailin. How many sweets did Suhailin give to Muthu?

Ans: _____[3m]

Joshua is studying for a Science test. He has read $\frac{1}{4}$ of the textbook.

After reading another 15 pages, the number of pages he has read became $\frac{2}{3}$ of the number of pages left unread. How many pages did Joshua read?

Ans: _____[3m]

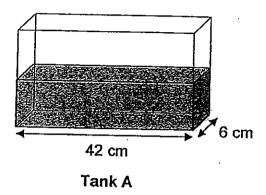
10) The area of Rectangle Y is 4 times that of Rectangle Z. The area of Rectangle X is 2.5 times that of Rectangle Y. Express the total area of Rectangle X and Rectangle Z as a fraction of the whole figure.

Z	
- Y	X
	··

Ans:_____[3m]

while Beth had \$100		oney to Ca arl. How m			
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Water is poured into Tank A and Tank B as shown below. The height of the water level in both tanks is the same. If the difference in the volume of water of both tanks is 1400 cm³, what is the volume of water in Tank B? (Diagrams are not drawn to scale)



13 cm 14 cm Tank B

Ans: [4m

13)	was 1 : 4. Eac while each acc were distributed	party, the ratio of the number of adults to the number oh boy was given 3 chocolates, each girl was given 2 companying adult received 1 chocolate. Given that 403 d and that the ratio of the number of boys to the number o	chocolates
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p. *		Ans:	[4m]
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Huiling. Huil marbles than	ng aren	e in the or	o of ner ma	amies	to Ged	orge. I	f Huilir	ig had	192 more
14) Huiling had	160 les	s marbles	than Geo	rge. G	eorge	gave	75% c	of his r	narbles to
44) History Last	400 L								

15) 2/3 of the beads in Bag A is the same as 3/4 of the beads in Bag B.
 23 beads were added to Bag A while 27 beads were removed from Bag B.
 The ratio of the number of beads left in Bag A to the number of beads in Bag B became 2 : 1. How many beads were there in Bag A in the end?

Ans:_____[5m]

16) The following figures are formed by unshaded and shaded triangles.





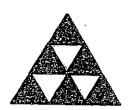


Figure 2

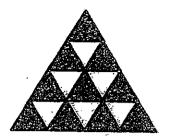


Figure 3

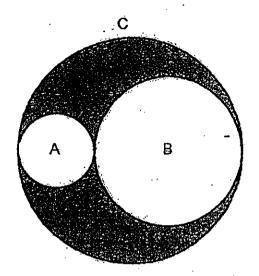
Figure	Number of unshaded triangles	Number of shaded triangles				
1	Ÿ	3				
.2	3	6				
3	6	10				
4	[1m]	[1m]				

- (a) Complete the table for Figure 4.
- (b) Find the number of unshaded triangles in Figure 50.
- (c) Find the figure that has 4095 shaded triangles.

Ans: (b) _____ [1m]

(c) Figure_____[2m]

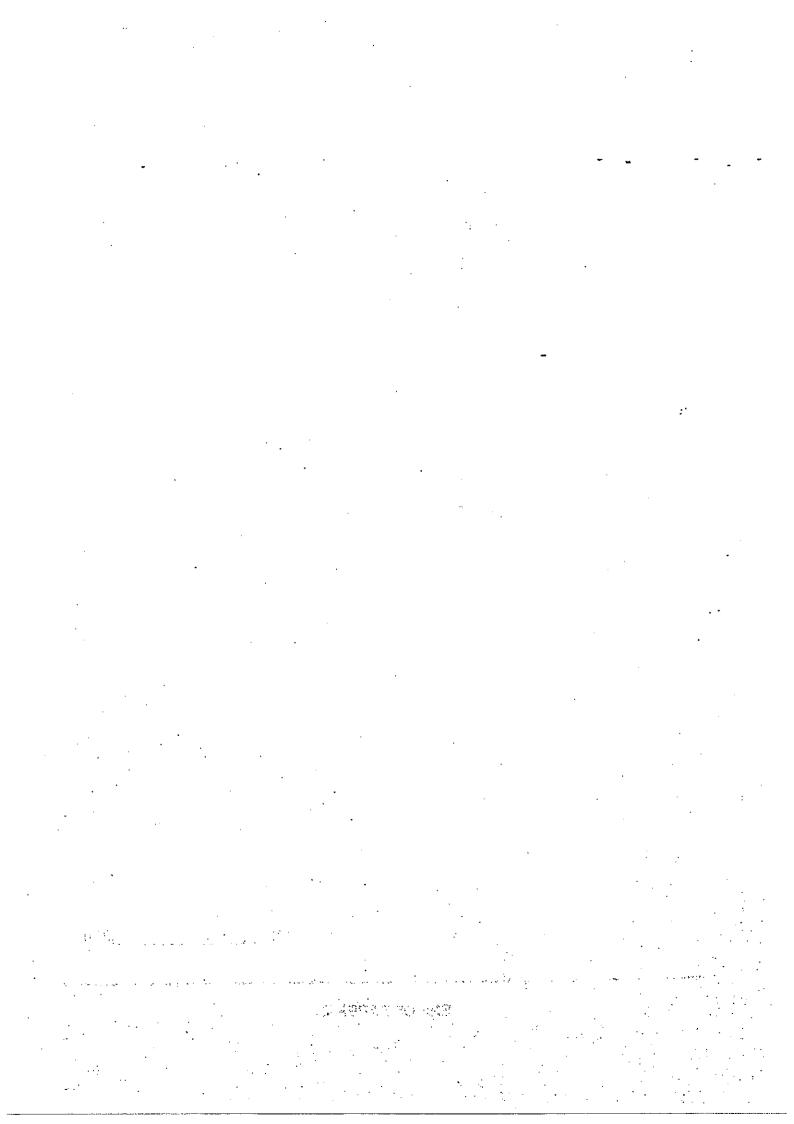
The figure below is made of 3 circles. The ratio of the area of Circle A to the area of Circle B is 1: 4. If the diameter of Circle A is 14 cm, find the perimeter of the shaded region in the figure.
 (Give your answer in terms of π)

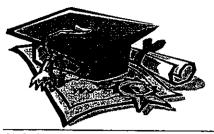


•			
- · · ·	•	- *- *	7
Ans:			[5m]

- 18) At 08 35, Tom started driving his lorry from Town A to Town B at an average speed of 70 km/h. At 10 05, Roy started driving his sports car from Town A to Town B at an average speed of 100 km/h.
 - (a) At what time did Roy catch up with Tom on the road?
 - (b) Find the distance between Town A and Town B if Roy reached Town B in $\frac{3}{4}$ h after overtaking Tom.

Ans: (a)	. •	 [3m
(b)	: :	 [2m





ANSWER SHEET

EXAM PAPER 2012

SCHOOL: TAO NAN

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : SA1

											•			•
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	011	012	O13	014	O15
1	2	2	2	3	4	2	3	4	3	4	1	1	3	2

16)9.08

17)20000

18)1 1/20

· 19)44cm

20)Y

21)



22)162/3

23)8k+3

24)16

25)28cm₂

26)5/8

27)88°

28)123

29)21

30)196cm₂

$$9 - 2 = 7$$

$$36 - 2 = 34$$

$$34 + 7 = 41$$
 years.

$$2)10 + 130 + 110 + 150 = 400$$

$$110 + 150 = 260$$

$$260/400 = 13/20$$

3)
$$\angle$$
AOD= 180° - 20° = 160°

$$\angle CAD = (180^{\circ} - 160^{\circ}) \div 2 = 10^{\circ}$$

$$\angle CAB = (180^{\circ} - 134^{\circ}) \div 2 = 23^{\circ}$$

$$\angle DAB = 23^{\circ} + 10^{\circ} = 33^{\circ}$$

$$80\% \div 20\% = 4$$

$$100 \times 4 = 400$$

$$-100\% \div 50\% = 2$$

$$400 \times 2 = $800$$

$$5)52 \times 3 = 156$$

$$156 - 108 = 48$$

$$3 + 1 = 4$$

$$48 \div 4 = 12$$

$$52 - 12 = 40$$

$$6)1/5 \times (1-2/3) = 1/15$$

$$48 \times 15 = 720$$

There were 720 pieces in the jigsaw puzzle.

$$7)6 \times 5 = 30$$

$$7 - 4 = 3$$

$$30 \div 3 = 10$$

$$10 \times 4 = 40$$

$$40 \div 5 = 8$$

His speed was 8km/h.

$$8)80 + 20 = 100$$

$$100 \div 2 = 50$$

Suhailin gave Muthu 50 sweets.

```
9)2 + 3 = 5

2/5 - ¼ = 3/20

15÷3 x 20 x 2/5 = 40

He read 40 pages.
```

The fraction is 11/15

$$(100+40)$$
x 2 = 280 It is \$280

```
14)Huling→10u
  George->10u + 160
  (10u+160)x 75\% = 7.5u + 120
   10u + 160 - 7.5u - 120 = 2.5u + 40
   10u + 7.5u + 120 = 17.5u + 120
   17.5u + 120 \times 20\% = 3.5u + 24
   2.5u + 40 + 3.5u + 24 = 6u + 64
   17.5u + 120 - 3.5u - 24 = 14u + 96
   14u + 96 - 6u - 64 = 192
   (14u - 6u) + (96 - 64) = 8u + 32 = 192
    192 - 32 = 160
    160 \div 8 = 20
    20 \times 10 = 200
She had 200 marbles at first.
15)Bag A \rightarrow 2/3 = 6/9
   Bag B \to 3/4 = 6/8
   Bag A: Bag B
       9:8
   Bag A: Bag B
       2:1
   9u + 23 = 2p
   8u - 27 = 1p
   16u - 54 = 2p
   16u - 54 = 9u + 23
   16u - 9u = 54 + 23
 7u = 77
   U = 77÷7
   U = 11
   11 \times 9 + 23 = 122
There were 122 beads in Bag A.
```

16)a)10, 15 b)1275 c)89 17)14 x Π = 14 Π 14÷2 = 7 7 x 7 x Π = 49 Π 49 Π x 4 = 196 Π /196 Π = 14 Π 14 Π ÷ Π = 142 14 x 2 = 28 28 x Π = 28 Π (14 + 28) x Π = 42 Π 42 Π + 14 Π + 28 Π = 84 Π The perimeter is 84 Π cm.

18)
$$70 \times 1.5 = 105$$

 $100 - 70 = 30$
 $105 \div 30 = 3.5$

34 h = 45min $100 \times 34 = 75$ 75 (100x3.5) = 425a)He caught up at 1.35pm.
b)The distance is 425km.

