Name : _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 5 Mathematics

2011 Continual Assessment 2

Paper 1

Booklet A

23 August 2011

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

INSTRUCTIONS TO CANDIDATES

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
THE USE OF CALCULATORS IS NOT ALLOWED.

This booklet consists of 7 printed pages including the cover page.

Booklet A: Multiple Choice Questions (20 marks)

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, 4) on the Optical Answer Sheet (OAS).

1) In $72.02 \div 200 = 36.01 \div \boxed{?}$, what is the missing number?

(1) 2 (2) 20

(3) 100 (4) 1000

2) 18 piles of books have a height of 1 m 65 cm. What will be the height of 6 such piles of books?

(1) 35.5 m (2) 5.5 m

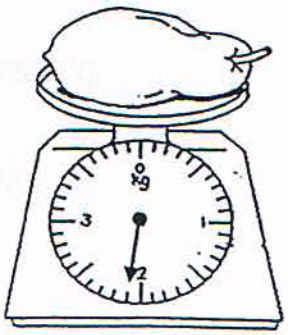
(3) 3.55 m (4) 0.55 m

3) Alroy had $\frac{9}{10}\ell$ of apple cider. He poured the apple cider into 4 bottles. Every bottle contained the same amount of apple cider. Which one of the following number sentences shows the amount of apple cider in each bottle?

(1) $\frac{9}{10}\ell \times 4$ (2) $\frac{9}{10}\ell \times \frac{1}{4}$

(3) $\frac{10}{9}\ell \times \frac{1}{4}$ (4) $\frac{10}{9}\ell \times 4$

4) The figure below shows the mass of a papaya.
What is the total mass of 10 such papayas?



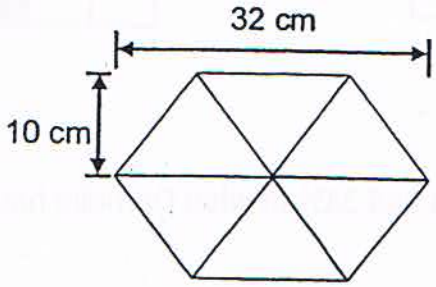
(1) 21.0 kg

(2) 2.1 kg

(3) 0.21 kg

(4) 0.021 kg

5) The figure below comprises identical triangles. What is the area of the figure?



(1) 960 cm²

(2) 160 cm²

(3) 480 cm²

(4) 320 cm²

37

6) Clyde cut a piece of twill into three smaller strips in the ratio 2 : 5 : 8. The shortest piece of twill was 30 cm. What is the length of the original piece of twill?

(1) 255 cm

(2) 225 cm

(3) 120 cm

(4) 102 cm

7) Which one of the following figures does not show 40% of the whole figure shaded?

(1) 

(2) 

(3) 

(4) 

8) Darnelle had $400. Evita had 34% of what Darnelle had. How much money did Evita have?

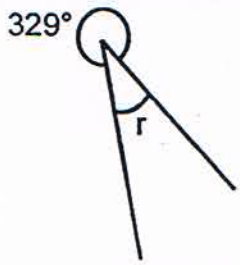
(1) $8.50

(2) $34

(3) $136

(4) $264

9) The figure below is not drawn to scale.
Find $\angle r$.



(1) 31° (2) 59°

(3) 41° (4) 149°

10) A wall clock shows the time 10.07. Which one of the following could possibly be the best estimated value of the angle, greater than 180°, that is formed by the hour hand and the minute hand?

(1) 190° (2) 260°

(3) 290° (4) 330°

11) Florena prepared some potatoes, celery and beetroot for salad. 40% of the salad consisted of celery. The amount of beetroot was $\frac{1}{4}$ of the total amount of potatoes and beetroot. What percentage of the salad consisted of potatoes?

(1) 20% (2) 45%

(3) 48% (4) 60%

12) Uncle Guz deposited $70 000 in Lucratif Bank. The interest rate per year was 3%. Uncle Herlim deposited $50 000 more than Uncle Guz in the same bank. How much interest did both of them receive after one year?

(1) $1500 (2) $3600

(3) $5700 (4) $7200

13) Irwan spent $\frac{1}{5}$ of his commission on some car accessories. Then he spent 30% of the remaining commission on some computer accessories. What percentage of his commission did Irwan spend on the computer accessories?

(1) 24% (2) 56%

(3) 70% (4) 80%

14) Look at the pairs of numbers below. Between which pair of numbers is 9.36?

(1) 9.1 and $9\frac{37}{1000}$

(2) $9\frac{1}{4}$ and 9.3

(3) $9\frac{19}{100}$ and $9\frac{3}{10}$

(4) $9\frac{2}{5}$ and $9\frac{6}{100}$

15) Mrs Jardine went to Megasavings Supermarket with $150 to buy roast duck and sushi. A box of sushi was sold at $13 and a roast duck was sold at $38. How much change would Mrs Jardine receive if she were to buy 2 roast ducks and the greatest possible number of boxes of sushi?

(1) $6

(2) $7

(3) $8

(4) $9

End of Booklet A

41

Name : _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 5 Mathematics

2011 Continual Assessment 2

Paper 1

Booklet B

23 August 2011

Booklet A	20
Booklet B	20
Total	40

TOTAL TIME FOR BOOKLETS A AND B : 50 MINUTES

INSTRUCTIONS TO CANDIDATES

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This booklet consists of 8 printed pages including the cover page.

Booklet B: Short Answers (20 marks)

Do not write in this space.

Questions 16 to 25 carry 1 mark each.
Write down your answers in the spaces provided. For questions which require units, give your answers in the units stated.

16) What is 90% written as a fraction in the simplest form?

Ans : _____

17) Ker Min spent $200 on a meal. In addition, she had to pay 7% GST. How much GST did she have to pay?

Ans : $_____

18) Given that RS is $\frac{1}{3}$ of QR and PQ has the same length as QS, find the ratio of PS to PR to RS.

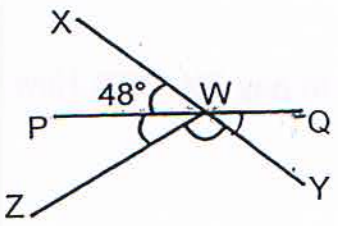
Ans: _____

43

19) How many litres are there in 51 006 mℓ? Leave your answer as a decimal.

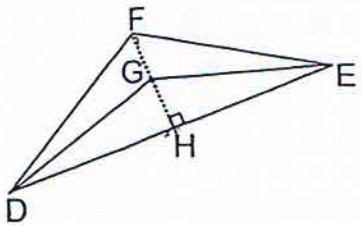
Ans: _____ ℓ

20) The figure below is not drawn to scale.
XY and PQ are straight lines. Find the total sum of ∠PWZ and ∠YWZ.



Ans: _____ °

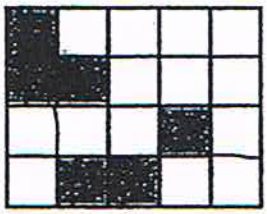
21) Look at the figure below. Given that DH is the height of Triangle DGF, write down its base.



Ans: _____

Do not write in this spa

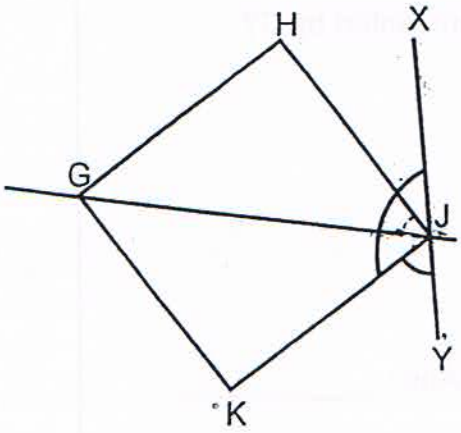
22) The figure below is made up of squares of the same size.
How many unshaded squares must be removed so that 50% of the figure is shaded?



Ans : _____

Do not write in this spa

23) The figure below, not drawn to scale, shows a square GHJK. GJ and XY are straight lines. $\angle XJK = 120°$. What fraction of $\angle KJY$ is $\angle XJH$?



Ans : _____

24) Look at the pattern below. What is the number represented by $\bar{U}$ in Line 8? Write down the number.

Do not write in this space.

Line 1 → $\frac{1}{2} \div 4 = \frac{1}{8}$

Line 2 → $\frac{1}{3} \div 6 = \frac{1}{18}$

Line 3 → $\frac{1}{4} \div 8 = \frac{1}{32}$

Line 8 → $\frac{1}{9} \div T = \frac{1}{U}$

Ans : _____

25) In 20 : 15 : 5 = 32 : C : 8, what is the value represented by C?

Ans : _____

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

Do not write in this spac

26) Mrs Migu took part in a 10-km marathon. She ran $\frac{1}{4}$ of the total distance and jogged for 4 km. Then she walked for the rest of the marathon. How far did Mrs Migu walk? Leave your answer in km.

Ans: _____ km

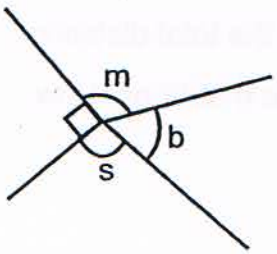
27) Among all the 320 interviewees at a job interview, the ratio of the number of Chinese to the number of Malays to the number of Indians was 17 : 10 : 13. $\frac{5}{8}$ of the Malay interviewees were single and the rest were married. How many Malay interviewees were single?

Ans: _____

57

Do not write in this space.

28) The figure below is not drawn to scale.
$\angle m$, $\angle b$ and $\angle s$ are in the ratio ~~4 : 3 : 2~~ 4 : 1 : 3 respectively.
Find $\angle s$.



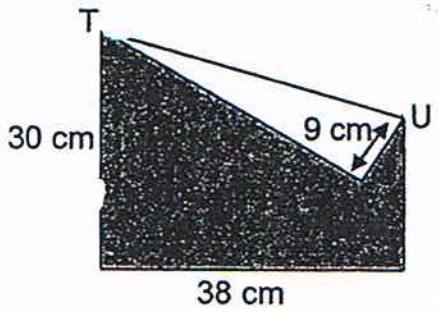
Ans: _____°

29) Rhean thought of a decimal number. She subtracted 10 from the decimal number and then multiplied the difference by 2. Then she divided the result by 100. In the end, she obtained 0.928. What is the decimal number that Rhean thought of?

Ans: _____

30) A rectangular piece of paper was folded at the corner to form Triangle TUV as shown in the figure below. What is the area of the shaded part of the rectangle?

Do not write in this space.



Ans: _____ cm^2

End of Booklet B

49

Name: _____ ( )

Class : Primary 5 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 5 Mathematics

2011 Continual Assessment 2

Paper 2

23 August 2011

Paper 1	**40**
Paper 2	**60**
Total Marks	**100**

_____

Parent's/Guardian's Signature

TOTAL TIME FOR PAPER 2 : 1 HOUR 40 MINUTES

INSTRUCTIONS TO CANDIDATES

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FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
THE USE OF AN APPROVED CALCULATOR IS EXPECTED, WHERE APPROPRIATE.

This booklet consists of 14 printed pages including the cover page.

Short Answers (10 marks)

Questions 1 to 5 carry 2 marks each.
Write your answers in the answer blanks provided.
Give your answers in the units stated.

Do not write in this space.

1) The table below shows the number of times within a month, that some teenagers engaged in on-line shopping.

Number of teenagers	*Number of times*
3	Once a month
11	[illegible] a month
6	[illegible] a month
5	[illegible] a month

Thrice a month
Five times a month
Seven times a month

What percentage of the teenagers engaged in on-line shopping at least thrice a month?

Ans : _____ %

2) Henrietta has a mass of 49.1 kg. Trixie is 600 g lighter than Henrietta and 0.8 kg heavier than Seraphina. What is Seraphina's mass?

Ans : _____ kg

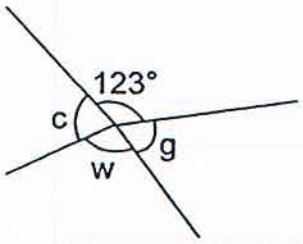
53

3) A rectangle has a length of 22 cm and a breadth of 17 cm. If the length and the breadth are each increased by 0.08 m, what would be the new perimeter of the rectangle?

Do not write in this spac

Ans : _____ cm

4) The figure below is not drawn to scale. $\angle c$ is $\frac{8}{9}$ of a right angle and $\angle g$ is 46°. What is the difference between $\angle g$ and $\angle w$?



Ans : _____ °

5) A salesman can wrap 100 presents per day. He uses 45 cm of ribbon for every present. The length of each roll of ribbon is 9 m. How many rolls of ribbon does he use in 3 weeks?

Do not write in this space.

Ans : _____

55

Long Answers (50 marks)

For questions 6 to 18, show your working clearly in the space below each question and write your answer in the spaces 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.

6) There were 3050 tourists at a resort. 36% of them were from Asia and the rest were from Europe. Among the tourists from Europe, there were 96 fewer adults than children. How many children from Europe were there at the resort?

Ans: _____ (3 m)

7) Mr Jairo and Mr Makrish sold 54 insurance policies in all. Mr Jairo sold 36 insurance policies. Mr Makrish sold 4 more insurance policies than Mr Dieppe. What is the ratio of the number of insurance policies sold by Mr Makrish to that of Mr Dieppe to that of the three men?

Ans: _____ (3 m)

8) A drum and a tank contained 47.9 ℓ of water in all. When 0.93 ℓ of water was poured into the drum, the drum contained 34.43 ℓ more water than the tank. How much water was there in the drum at first? Leave your answer in ℓ and m ℓ.

Do not write in this space.

Ans: _____ (3 m)

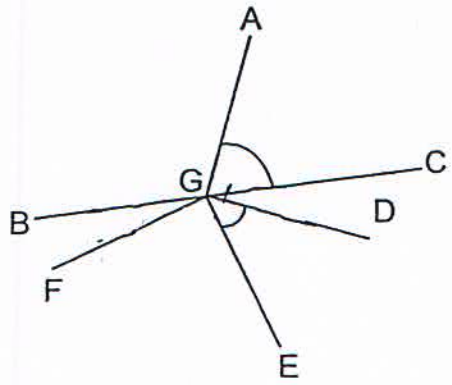
9) Uncle Prema was given 5 days, from Monday to Friday, to pack 66 kg of clothes for an orphanage. He packed 12.6 kg of clothes on Monday. The ratio of the mass of clothes packed on Monday to the mass of clothes packed on Tuesday to the mass of clothes packed on Wednesday was 6 : 11 : 8. Given that he packed an equal mass of clothes on each of the rest of the days, find the mass of clothes Uncle Prema packed on Thursday.

Ans: _____ (3 m)

57

10) The figure below is not drawn to scale. BC is a straight line and both ∠AGD and ∠FGE are right angles. If ∠BGF = 18° and ∠AGC = 65.5°, what is ∠EGD?

Do not write in this space.



Ans: _____ (3 m)

11) There are 1100 participants at a rally. 480 of them are aged above fifty and they are all not working. The remaining participants are aged below fifty and 45% of them are working. The rest of the participants are not working. What is the total number of participants who are not working?

Ans: _____ (3 m)

12) In a class of 35 pupils, the number of girls was $\frac{3}{4}$ of the number of boys. Then 5 of the boys left to join another school and 6 girls from another school joined the class. What percentage of the class are girls in the end? Leave your answer correct to 1 decimal place.

Do not write in this space.

Ans: _____ (4 m)

59

13) Song Ren had a total of 50 coins. The coins were in denominations of 50 ¢, 20 ¢ and 5 ¢. He had an equal number of 50 ¢ coins as 20 ¢ coins. The total value of the 20 ¢ coins and the 5 ¢ coins was $4.10. How many coins of each denomination did Song Ren have?

Do not write in this space.

Ans : 50 ¢ → _____

20 ¢ → _____

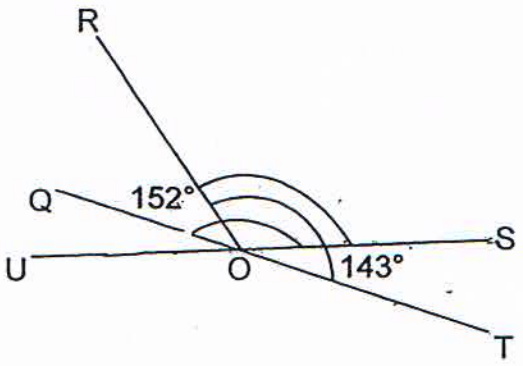
5 ¢ → _____ (4 m)

14) The figure below is not drawn to scale. QOT and UOS are straight lines. $\angle QOS = 152°$ and $\angle TOR = 143°$.

(a) Write down an angle which is equal to $\angle SOT$.

(b) What is $\angle ROS$?

Do not write in this space.



Ans: (a) _____ (1 m)

(b) _____ (3 m)

61

15) Zane worked for 6 weeks and was paid a total amount of $2079. In the first 4 weeks, she worked 5 hours daily and was paid a basic hourly rate of $7.50. In the remaining weeks, she worked 8 hours per day, of which 3 hours was overtime work. How much more per hour was Zane paid for working overtime?

Do not write in this space.

Ans: _____ (5 m)

16) A vendor had an equal number of bookmarks, key chains and fridge magnets. After he sold 40 fridge magnets and bought a total of 210 bookmarks and key chains, he had twice as many key chains as fridge magnets. In the end, he had a total of 770 bookmarks, key chains and fridge magnets. How many bookmarks did he buy?

Do not write in this space.

Ans: _____ (5 m)

63

17) The usual price of a soap-dispenser and a laundry basket was $128 and $15 respectively. During a sale, each soap-dispenser was sold at 85% of its usual price and each laundry-basket was sold at 70% of its usual price. Zhan Zhao bought 2 soap-dispensers and 3 laundry baskets. How much money did he save?

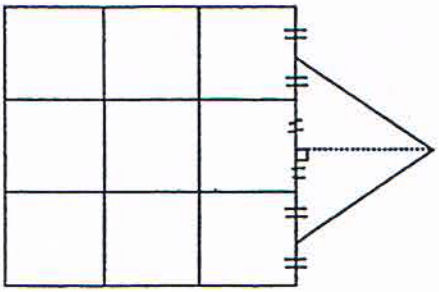
Do not write in this spac

Ans: _____ (5 m)

18) The figure below is not drawn to scale. It is made up of a triangle and some identical squares. The squares have a total area of 1296 cm². The height of the triangle is 2 cm more than its base.

(a) What is the height of the triangle?

(b) What is the ratio of the area of 1 square to the area of the triangle to the area of the figure?



Do not write in this space.

Ans: (a) _____ (2 m)

(b) _____ (3 m)

End of Paper 2

65

ANSWER SHEET

EXAM PAPER 2011

SCHOOL : CHIJ
SUBJECT : PRIMARY 5 MATHEAMATICS

TERM : CA2

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

16)9/10 17)$14 18)8:7:1 19)51.006L 20)132°

21)FG 22)8 23) ½ 24)162 25)24

26)3.5km 27)50 28)101.25° 29)56.4 30)798cm2

Paper 2

1)11 +6 + 5 + 3 = 25
22/25 = 88/100
= 88%

2)600g = 0.6kg
49.1kg = 0.6kg = 48.5kg (Trixie)
48.5kg – 0.8kg = 47.7kg

3)0.08m = 8cm
22cm + 8cm = 30cm (new length)
17cm + 8cm = 25cm (new breadth)
(30x2)+(25x2) = 110cm

4)right angle→90°
8/9 x 90° = 80° (∠c)
360° – 80° – 46° – 123° = 111° (∠w)
111° – 46° = 65°

5)1 week→7days
3 weeks→21 days
45cm x 100 = 4500cm (a days)
9m→900cm
4500cm÷900cm = 5 (roll of ribbon a day)
5 x 21= 105

6)100% - 36% = 64% (Europe)
64% x 3050 = 1952 (Europe)
1952 + 96 = 2048
2048÷2 = 1024 (children)
There were 1024 children from Europe.

7)54 – 36 = 18 (Mr Makrish)
18 – 4 – 14 (Mr Dieppe)
54 + 14 = 68 (Total)
M : D : T
18: 14 : 68
9 : 7 : 34
The ratio is 9:7:34

8)47.9L + 0.93L = 48.83L
48.83L + 34.43L = 83.26L
83.26L÷2 = 41.63L (drum after)
41.63L – 0.93L = 40.7L
=40L 700ml
The drum contained 40L 700ml.

9)12.6kg÷6 = 2.1kg (1u)
6u + 11u + 8u =25u
2.1kg x 25 = 52.5kg (M+T+W)
66kg – 52.5kg = 13.5kg (Th+F)
13.5kg÷2 = 6.75kg
Uncle Prema packed 6.75kg on Thursday.

10)90° – 65.5° = 24.5° (∠DGC)
18° + 90° + 24.5° = 132.5°
180° – 132.5° = 47.5°
∠EGD is 47.5°

11)1100 – 480 = 620 (below fifty)
100% - 45% = 55% (below fifty &not working)
55% x 620 = 341
341 + 480 = 821
The total number of participants who are not working is 821.

12)35÷7 = 5 (1u)
5 x 3 = 15 (G)
5 x 4 = 20 (B)
20 -5 = 15 (B end)
15 + 6 = 21 (G end)
15 + 21 =36 (total pupils)
21/36 x 100% = $58_{1/3}\%$ ≈58.3%
The percentage is 58.3%

13)

No.of 50c coins	Amt	No.of 20c coins	Amt	No.of 5c coins	Amt	T.amt 20c+5c	T.no. of coins	√/x
20	$10	20	$4	10	$0.50	$4.50	50	x
18	$9	18	$3.60	14	$0.70	$4.30	50	x
16	$8	16	$3.20	18	$0.90	$4.10	50	√

Song Ren had 16 50c coins, 16 20c coins and 18 5c coins

14)a) $\angle QOU$ is equal to $\angle SOT$

b) $180° - 152° = 28°$ ($\angle QOU$)

$143° - 28° = 115°$ ($\angle ROS$)

15)1 week→7 days

4 weeks→28 days

5 x $7.50 = $37.50 (paid a day)

$37.50 x 28 = $1050 (first 4 weeks)

2 weeks→14 days

$37.50 x 14 = $525

$1050 – $525 = $1575

$2079 – $1575 = $504 (OT)

3 x 14 = 42 (hours of OT in all)

$504 ÷ 42 = $12 (1 hour of OT)

$12 – $7.50 = $4.50

Zane was paid $4.50 more.

16)770 – 210 = 560

560 + 40 = 600 (at first)

600 ÷ 3 = 200 (each at first)

200 – 40 = 160 (F in the end)

160 x 2 = 320 (K in the end)

320 – 200 = 120 (K bought)

210 – 120 = 90 (B bought)

He bought 90 bookmarks.

17)85% x $128 = $108.80 (SD at sale)

70% x $15 = $10.50 (LB at sale)

$108.80 x 2 = $217.60

$10.50 x 3 = $31.50

$217.60 + $31.50 = $249.10 (in all during sale)

$128 x 2 = $256

$15 x 3 = $45

$256 + $45 = $301 (in all before sale)

$301 – $249.10 = $51.90

Zhan Zhao saved $51.90

18)a) $\sqrt{1296}\text{cm}^2 \div 9 = 144\text{cm}^2$ (each sq)

$\sqrt{144} = 12$ (1 side of each sq)

$12 \div 2 = 6$

$6+6+6+6 = 24$ (Base of $\triangle$)

$24 + 2 = 26$ (Height of $\triangle$)

The height of the triangle is 26cm.

b) $\frac{1}{2} \times 24 \times 26 = 312$ (area of $\triangle$)

$1296 + 312 = 1608$ (Total area of fig)

S	T	F
144	39	201
18	39	67
6	13	67

The ratio is 6 : 13 : 67