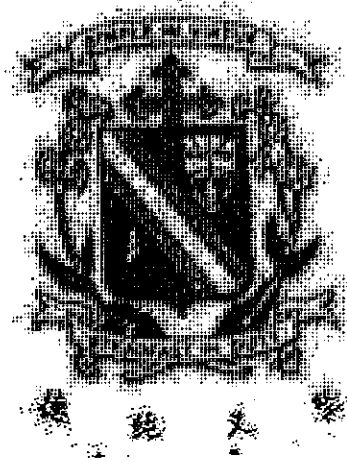Name : _____ (   )

Class : Primary 5_____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

PRIMARY 5

CONTINUAL ASSESSMENT 2

MATHEMATICS

24 August 2010

PAPER 1
(Booklet A)

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

<u>INSTRUCTIONS TO CANDIDATES</u>

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
SHADE YOUR ANSWERS IN THE OPTICAL ANSWER SHEET (OAS) PROVIDED.
THE USE OF CALCULATORS IS <u>NOT</u> ALLOWED.

This booklet consists of <u>6</u> printed pages including the cover page.

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). (20 marks)

----

1) How many quarters are there altogether in $11\frac{1}{2}$? $=$

(1) 23

(2) 28

(3) 45

(4) 46

2) Find the value of $60 + (7 - 2) - 10 \div 5 \times 2$.

(1) 22

(2) 58

(3) 61

(4) 126

3) . How many centimeters are there altogether in 23.02m?

(1) 2.032 cm

(2) 2.32 cm

(3) 2302 cm

(4) 2320 cm

4) A number, when rounded off to 2 decimal places, is 32.50. What is the number?

(1) 32.406

(2) 32.495

(3) 32.597

(4) 32.505

5) There are 270 people at an auction. 30% of them were locals and the rest were expatriates. How many _more_ expatriates were there?

(1) 81

(2) 108

(3) 162

(4) 189

6) The ratio of Carol's mass to Siti's mass is 4 : 3. If Siti's mass is 36 kg, what is their total mass?
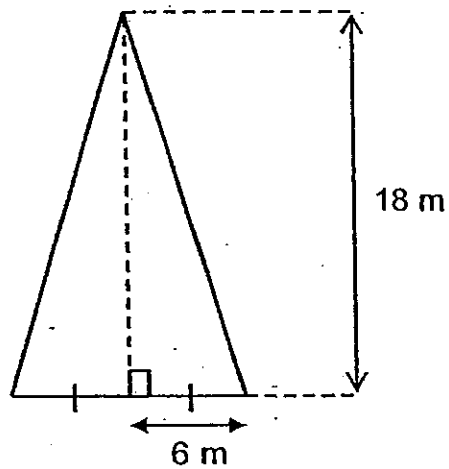
(1) 27 kg

(2) 48 kg

(3) 63 kg

(4) 84 kg

3

7) What is one hundredth less than 875.1?

(1) 875

(2) 875.099

(3) 875.09

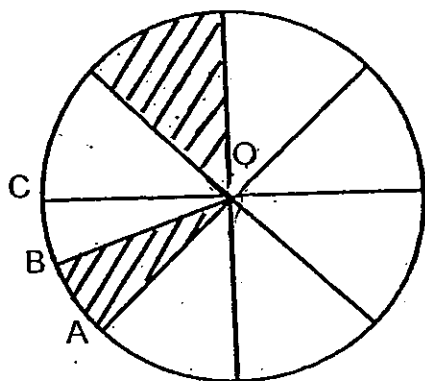(4) 875.11

8) Find the <u>product</u> of 4.097 and 10 tens.

(1) 40.97

(2) 409.70

(3) 4 097

(4) 40 970

9) What is the area of the triangle?

18 m

6 m

(1) 27 m^2

(2) 54 m^2

(3) 108 m^2

(4) 216 m^2

10) The circle is divided into 8 equal parts. Given that OAB is 50% of OAC, what percentage of the figure below is shaded?

C

B

O

A

(1) 18.75 %

(2) 12.5 %

(3) 37.5 %

(4) 68.75 %

11) If 9 apples cost $6, how much will 24 apples cost?

(1) $0.66

(2) $2.00

(3) $16.00

(4) $36.00

12) The height of a triangle is thrice the base. If the height is 30 cm, what is the area of the triangle?

(1) 2700 cm^2

(2) 1350 cm^2

(3) 300 cm^2

(4) 150 cm^2

13) Saravanan collects stamps as a hobby. $\frac{1}{5}$ of his stamps are Singapore stamps, $\frac{1}{4}$ of them are Malaysia stamps and the rest are China stamps. What percentage of the total number of stamps collected is China stamps?

(1) 55%

(2) 45%

(3) 75%

(4) 95%

14) Grandpa Joe bought some mangoes and avocados for $86.50. A mango and an avocado cost $11.00 in all. He bought more mangoes than avocados and the mangoes cost $42.50 more. How many avocados did he buy?

(1) 2

(2) 4

(3) 5

(4) 9

15) In a cooking class, 42 of them were females and the remaining 8 people were males. What percentage of all the people in the cooking class were males?

(1) 16%

(2) $19\frac{1}{21}$%

(3) $80\frac{20}{21}$%
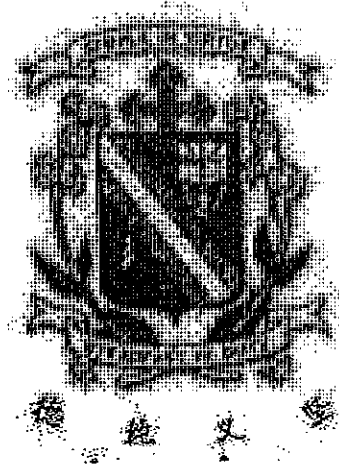
(4) 84%

End of Booklet A

Name : _____ (   )

Class : Primary 5_____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

PRIMARY 5

CONTINUAL ASSESSMENT 2

MATHEMATICS

24 August 2010

PAPER 1
(Booklet B)

Booklet A	/20
Booklet B	/20
Total	/40

TOTAL TIME FOR BOOKLETS A AND B: 50 MINUTES

INSTRUCTIONS TO CANDIDATES

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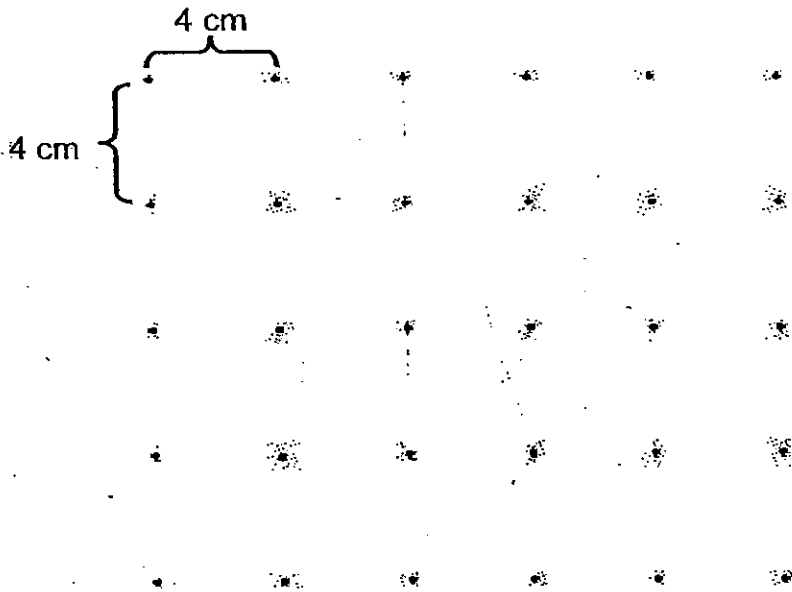This booklet consists of 8 printed pages including the cover page.

16) Express $\dfrac{19}{25}$ as a percentage.

Ans : _____ %

17) Write 0.8 as a fraction in its simplest form.

Ans : _____

18) Draw a triangle which has an area of 24 cm^2.

4 cm

4 cm

19) 240 girls and 560 boys took part in a mini-marathon. How many percent of the participants were boys?

Ans : _____%

20) Aunt Linda bought a roll of ribbon. She made 6 bows of 1.4 m each. Then she tied 5 parcels using 2.2 m for each parcel. Finally she had 10.6 m left. How long was the roll of ribbon when she first bought it?

Ans : _____m

21) Ali has six times as many marbles as Norman. The ratio of the number of Norman's marbles to the number of Ray's marbles is 5 : 3. Find the ratio of the number of Ali's marbles to the number of Ray's marbles.
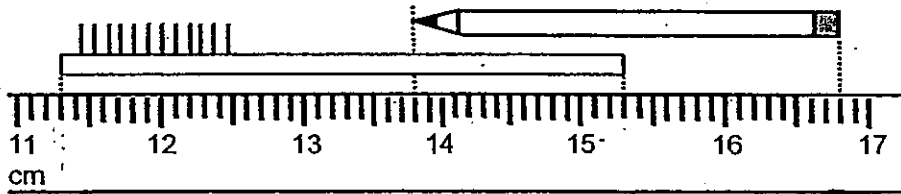
Ans : _____

22) The sum of two numbers is 24.8. The ~~bigger~~ *smaller* number is the product of 0.1
and 17. What is the ~~smaller~~ *bigger* number?

Ans : _____

23) What is the ratio of the length of the toothbrush to the length of the pencil?

11   12   13   14   15   16   17
cm

Ans : _____

4

24) Elle is 25 years old now. She is $\frac{5}{9}$ of her mother's age. How old will her mother be in 8 years' time?

Ans : _____

25) At a party, 12 jugs of the same size contain 14 400 mℓ of orange juice. How many litres of orange juice are there in 80 such jugs?

Ans : _____ ℓ

5

Questions **26** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

Do not write in this space.

26) Two tanks, A and B, each contains goldfish and guppies. $\frac{4}{7}$ of the fish in Tank A are goldfish and $\frac{4}{5}$ of the fish in Tank B are goldfish. Both tanks have the same number of goldfish. Tank A contains 240 more guppies than Tank B. How many goldfish and guppies does Tank A contain altogether?

Ans : _____

27) Find the area of the triangle. (Each small square is 4 cm^2).
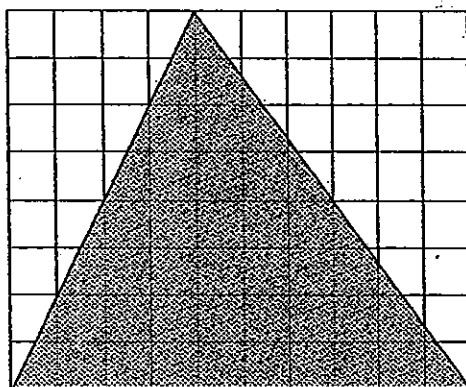
Ans : _____ cm^2

28) The usual price of a bicycle was $408. Mr Aladdin bought it at a discount of 25%. How much did he pay for the bicycle including 7% GST?

Ans : $_____

29) A black pole is 0.35 m shorter than a red pole and thrice as long as a green pole. The red pole is longer than the green pole by 90.8 cm. What is the length of the green pole? Leave your answer in cm.

Ans :_____cm
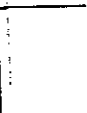
30) Kenny jogged from point A to point B to point C along Greenside Park. The ratio of the distance of AB to the distance of AC is 9 : 14. Find the distance that Kenny jogged from point A to point C.

1800 m

A   B   C
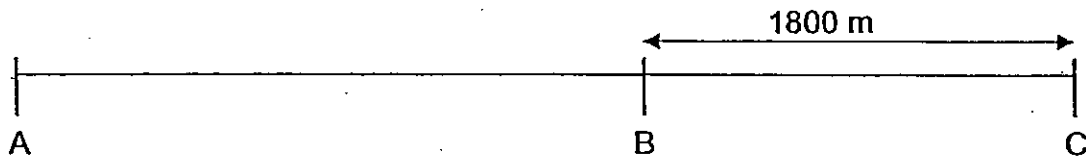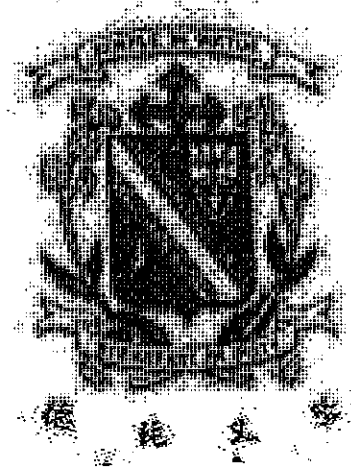
Ans : _____ m

End of Paper 1

Name : _____( )

Class : Primary 5_____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

PRIMARY 5

CONTINUAL ASSESSMENT 2

MATHEMATICS

24 August 2010

PAPER 2

Paper 1	40
Paper 2	60
Total Mark	100

_____
Parent's/Guardian's Signature

TOTAL TIME FOR PAPER 2 : 1 HOUR 40 MINUTES

INSTRUCTIONS TO CANDIDATES

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
WRITE YOUR ANSWERS IN THIS BOOKLET.
THE USE OF AN APPROVED CALCULATOR IS EXPECTED, WHERE APPROPRIATE.

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

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **[10 marks]**

Do not write in this space.

1)   Alice, Barbie and Chole shared some beads in the ratio 5 : 2 : 8. When Chole gave 2730 beads to Alice, Alice had 4 times as many beads as Barbie. How many beads did they share?

Ans.: _____

2)   Five identical dice were stacked to form a height of 37 cm. If 133 such dice were to be stacked, one on top of the other, what would the total height be? Leave your answer in metres correct to 2 decimal places.

37cm
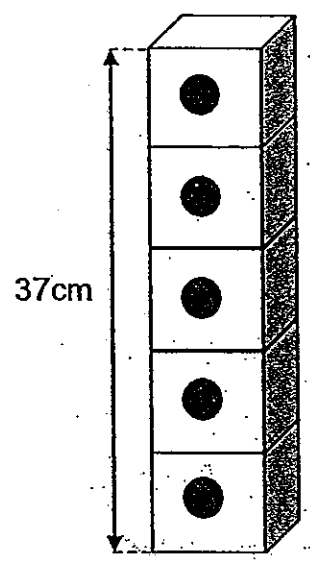
Ans.: _____m
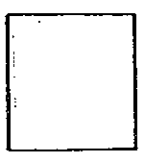
3) The table below shows the different rates that a technician is paid working in a computer company.

Day	Rate per day
Monday to Friday	$64.50
Saturday & Sunday	$132.50

There are a total of 450 technicians working in the company. Each of them works from Monday to Friday. 50% of them work on weekends. What is the total amount that the company needs to pay all the technicians in a week?
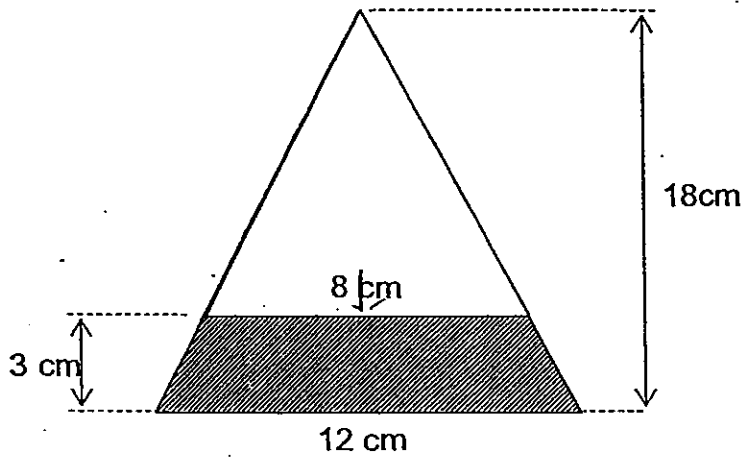
Ans : $_____

4) Teresa had $1785. She spent 16% of it on cosmetics, 44% of it on a dress and $\frac{1}{4}$ of the remainder on a bicycle. How much had she left?

Ans : $_____

5)   Find the area of the shaded part.

18cm

8 cm

3 cm

12 cm

Ans : _____ cm^2

For questions 6 to 18, show your working clearly 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.

[50 marks]

Do not write in this space.

6) Mr John cut a plank into 2 portions, Y and Z. He cut a small piece of length 7.5m from portion Y. His wife cut the remaining portion of Y into another 3 small strips of 260 cm each. Portion Z was 85% of the total length of portion Y. What was the length of the plank before it was cut?

Ans: _____ (3 m)

7) In a swimming club, the ratio of the number of instructors to the number of swimmers is 1 : 40. The number of male swimmers is $\frac{4}{5}$ of the number of female swimmers. There are 1 200 female swimmers. How many instructors are there in the club?

Ans: _____ (3 m)

8. There are 6000 audience watching a concert. 610 of them are children. Another 210 adults and 90 children join in to watch the concert. What percentage of the final number of audience are children?

Ans: _____(3 m)

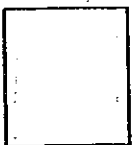9) Uncle Ronnie wanted to buy a motorcycle at the lowest possible cost. He had two options to pay for the motorcycle.

Option	Type of payment plan
A	Pay a deposit of $8880 and a monthly instalment of $1055 for 2 years
B	Make a full payment of $30 678.

a) Which option would he select?

b) How much would he save if he selected the option with the lowest possible cost?

a)

Ans: a)_____(2 m)

b)_____(1 m)

10) The ratio of the number of soccer balls to that of basketballs in a storeroom was 2 : 3. When another 144 balls were put into the storeroom, there were twice as many soccer balls and thrice as many basketballs. How many soccer balls and basketballs were there in the storeroom originally?

Ans: _____ (3m)

---

11) Aunt Lucy had $2990 at first. She spent 30% of her money on bags and $1338 on a watch. What percentage of her money had she left? Leave your answer correct to 2 decimal places.

Ans: _____ (4m)

(2) Zach had a total of 2050 black and red marbles. He lost $\frac{3}{5}$ of his black marbles and bought another 150 red marbles. As a result, the number of red marbles he had was $\frac{1}{4}$ of the remaining black marbles. How many more black marbles than red marbles had he at first?
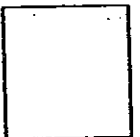
Ans:_____ (4m)

13) Uncle Vincent had $6300. He gave 30% of his money to his daughter and shared the rest among his three sons, Alan, Ben and Charlie in the ratio 5 : 7 : 3. Alan used 40% of his share to buy a lap-top. How much money did he have left?
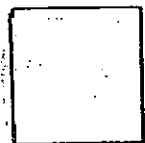
Ans: _____ (4m)

14) The total cost of 5 shirts and 3 pairs of jeans was $390.50. The total cost of a shirt and a pair of jeans was $117.30. Lionel used twenty $50 notes to pay for 9 shirts and 7 pairs of jeans. How much change did he receive?
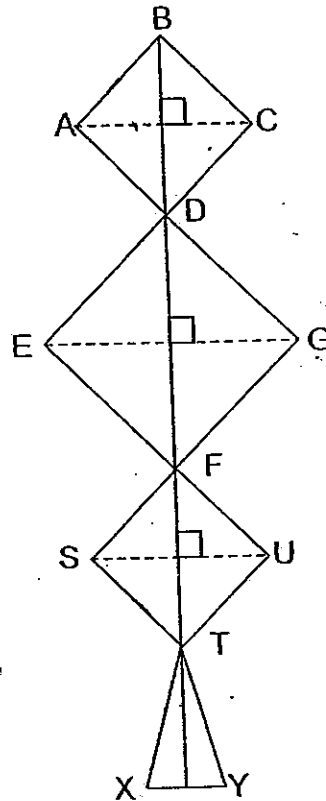
Ans: _____(4m)

15) The figure, not drawn to scale, shows 3 squares and a triangle. Square ABCD and square STUF are identical. The area of triangle TXY is 40% of the difference between the area of square ABCD and the area of square DEFG. The length of BD is 350 cm. If the ratio of the length of BF to the length of BD is 3 : 1, find the area of the whole figure. Leave your answer in metres.

Ans: _____(4m)

16) Rose had $2 480. When she gave her sister $680, she found that she had twice as much money as what her sister had finally.
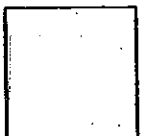
a) How much did her sister have at first?

b) Rose used her remaining money to buy 3 identical dresses and a pair of boots. If the pair of boots cost $120 and each dress cost $39.25 more than the pair of boots, how much money did she have left in the end?

Ans: (a) _____(2m)

(b) _____(3m)

17) Vanessa, Hilton and Dolly were given a box of sweets. Vanessa took $\frac{1}{3}$ of the sweets and another 20 from the box. Hilton took 0.5 of the remainder and another 40 from the box. Dolly took the remaining 30 sweets and there were no sweets left in the box.

a) How many sweets were there in the box at first?
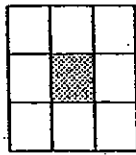
b) How many sweets did Hilton have finally?

Ans: (a) _____(3m)
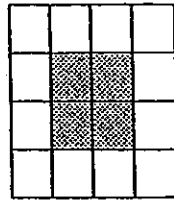
(b) _____(2m)

18) An artist designed a pattern using dotted tiles and white tiles.
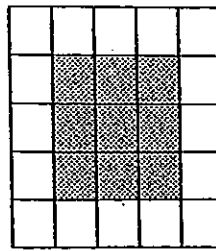

Pattern 1   Pattern 2   Pattern 3

a) Complete the table below.   (1m)

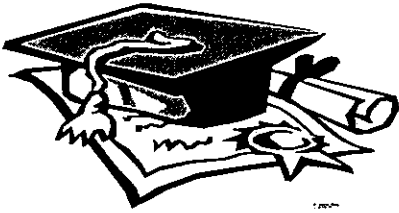| Pattern	Number of dotted tiles	Number of white tiles	Total number of tiles
1	1	8	9
2	4	12	16
3	9	16	25
18	324	_____	400

b) What ern number will have a total of 1 156 tiles?

c) What is the difference between the number of dotted tiles and the number of white tiles in pattern 53?
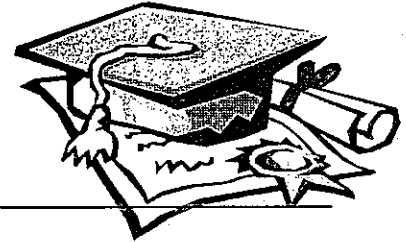
Ans: (b)_____(2m)

(c)_____(2m)

End of Paper

ANSWER SHEET

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
4	3	3	2	2	4	3	2	3	1	3	4	1	2	1
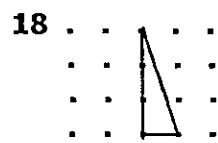
16)76%   17)4/5   18   19)70%   20)30m

21)10:1   22)23.1   23)4:3   24)53

25)96L   26)840   27)160cm2   28)$372.42   29)27.9cm

30)5040m

Paper 2

1)3u→2730 　1u→910 　5u + 2u = 8u = 15u 　910 x 15 = 13650 They shared 13650 beads	2)37÷5 = 7.4 　7.4 x 133 = 984.2 984.2cm = 9.842m 9.842m ≈ 9.84m The total height is 9.84m
3)Mon to Fri→5 days 　$64.50 x 5 = $322.50 　450 x 4322.50 = $145125 　450 x 50% = 225 Sat to Sun→2 days 　$132.50 x 2 = $265 　225 x $265 = $59625 　$59625 + $145125 = $204750	4)$1785 x 16% = $285.60 　$1785 x 44% = $785.40 　$1785 − $285.10 − $785.40 = $714 　$714 x ¼ = $178.50 　$714 − $178.50 = $535.50 　She had $535.50
5)18 − 3 = 15 　15 x 8 x ½ = 60 　18 x 12 x ½ = 108 　108 − 60 = 48 　The area 48cm2	6)260 x 3 = 780 　7.5m = 750cm 　750 + 780 = 1530 　1530 x 85% = 1300.5 　1300.5 + 1530 = 2830.5 　The length was 2830.5 cm

7)1200 x 4/5 = 960 (male) 960 + 1200 = 2160 2160÷40 = 54 54 x 1 = 54 **There are 54 instructors**	8)210 + 90 = 300 300 + 6000 = 6300 90 + 610 = 700 700/6300 x 100% = 11$\frac{1}{9}$% **11$\frac{1}{9}$% of the audience are children**
9)a)2 years→ 24 months $1055 x 24 = $25320 $25320 + $8880 = $34200 A: $34200 B: $30678→cheaper **He would select option B.** b)A: $34200 B: $30678 $34200 − $30678 = $3522 **He would save $3522**	10)2 x 2 = 4 3 x 3 = 9 4 : 9 4u − 2u = 2u 9u − 3u = 6u 2u + 6u = 8u 144÷8 = 18 2u + 3u = 5u 18 x 5 = 90 **There were 90 balls originally**
11)$2990 x 30% = $897 $897 + $1338 = $2235 $2990 − $2235 = $755 755/2990 ≈ 25.251/100 ≈25.25/100 = 25.25% **The percentage is 25.25%**	12)11u→2050 + 150 = 2200 1u→2200÷11 = 200 10 x 200 = 2000 (at first) Red: 200 − 150 = 50 (at first) 2000 − 50 = 1950 **He had 1950 more black than red** **marbles at first.**
13)$6300 x 30% = $1890 $6300 − $1890 = $4410 5u + 7u + 3u = 15u $4410÷15 = $294 $294 x 5 = $1470 100% - 40% =60% $1470 x 60% = $882 **He had $882 left.**	14)$38.60 + $821.10 = $859.70 $1000 − $859.70 = $140.30 **She received $140.30 change**
15)44.1m2	16)a)$2480-$680=$1800 (remaining) $1800 ÷ 2 =$900 $900 − $680 = $220 **She had $220 at first.** b)$120 + $39.25 = $159.25 (dress) 3 x $159.25 + $120 = $597.75 $1800 − $597.75 = $1202.25 **She had $1202.25 in the end.**
17)a)2/3→140 + 20 = 160 2u→160 1u→80 3u→80 x 3 = 240 **There were 240 sweets in the box** b)70 + 40 = 110 **He had 110 sweets**	18)a)76 b)32 c)2593