Name : _____ ( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2010 Continual Assessment One

Paper 1

Booklet A

1 March 2010

15 questions
20 marks

TOTAL TIME FOR BOOKLET A & 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 9 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 . (20 marks)

1) Royston had d boxes. He put 7 doughnuts into each of the boxes. Then he had 3 doughnuts left. Which one of the following is the correct expression for the original number of doughnuts Royston had?

(1) d + 3 + 7 (2) d x 7 + 3

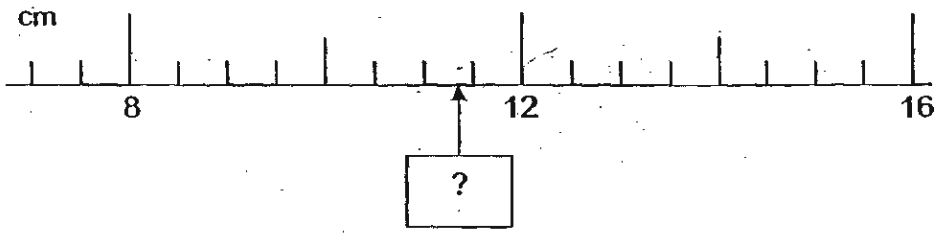
(3) d x 7 – 3 (4) d + 7 x 3

2) A pole was 60 cm long. 19 cm of it was painted silver and 23 cm of it was painted gold. The remaining pole was not painted. What fraction of the pole was not painted?

(1) $\frac{3}{10}$ (2) $\frac{7}{15}$

(3) $\frac{8}{15}$ (4) $\frac{7}{10}$

3) The figure below shows part of a ruler.
What is the best estimate of the reading shown by the arrow?



(1) 11.5 (2) 10.7

(3) 8.6 (4) 8.5

4) A hard disk was originally sold for $110. During a promotion, a discount of 20% was given. How much less did the hard disk cost during the promotion?

(1) $132 (2) $88

(3) $24 (4) $22

5) Nomee distributed $\frac{7}{8}$ of a log cake equally among her twin sister and her two brothers. What fraction of the log cake did each of them receive?

(1) $4\frac{3}{8}$ (2) $3\frac{1}{2}$

(3) $\frac{7}{24}$ (4) $\frac{7}{32}$

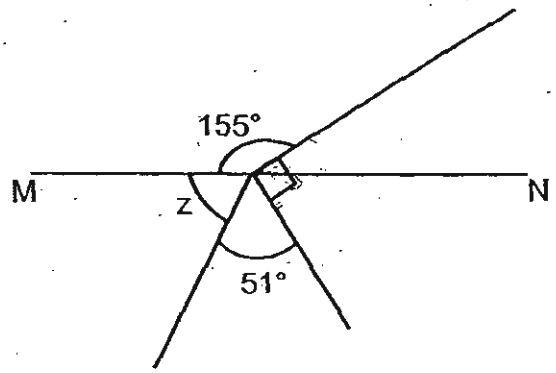
6) The mass of a wooden cupboard is 80 kg when rounded off to the nearest kilogram. Which one of the following is possibly the actual mass of the cupboard?

(1) 78.9 kg (2) 79.1 kg

(3) 80.1 kg (4) 80.9 kg

7) The figure below is not drawn to scale.

MN is a straight line. Find $\angle z$.



(1) 104°

(2) 154°

(3) 64°

(4) 51°

8) $\frac{15}{3000}$ is equal to 5 x $\boxed{\text{g}}$. What is the value of g?

(1) $\frac{1}{10000}$

(2) $\frac{1}{1000}$

(3) $\frac{1}{100}$

(4) $\frac{1}{10}$

9) A solid figure, which is made up of 12 cubes, has a total volume of 96 cm^3. What is the height of each cube?

(1) 2 cm (2) 8 cm

(3) 16 cm (4) 64 cm

10) There were some pupils at a lecture theatre. After 300 girls and 45 more boys than girls left the lecture theatre, the number of boys who remained behind was $\frac{1}{3}$ of the total number of pupils who left. How many boys remained behind?

(1) 115 (2) 215

(3) 1035 (4) 1935

11) The table below shows the types of outfits sold in Fashion Designo Boutique. One of the numbers is missing.

Type of outfit	Number of outfits
Blouse	15
Skirt	19
Dress	?
Pants	10

Given that $\frac{4}{15}$ of the total number of outfits are dresses, how many more skirts than dresses are there?

(1) 111 (2) 60

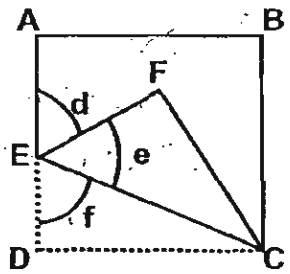
(3) 16 (4) 3

12) Cecily bought 70 belts at $30 each. She sold each of them at 30% more than what she had paid for at first. How much money did she make from selling all the belts?

(1) $630 (2) $1470

(3) $2730 (4) $4830

13) ABCD is a square piece of paper. A corner of the paper was folded to form triangle EFC. Which one of the following statements about the figure is true?



(1) $\angle e = 45°$

(2) $\angle d = 60°$

$\angle e = \angle f$

(3) ~~$\angle e + \angle f = 90°$~~

(4) ~~$\angle d + \angle e = 180°$~~

$\angle d = \angle e$

14) Elliot has a paper cube and a paper cuboid. The volume of the paper cube is $\frac{4}{9}$ of the total volume of the paper cube and the paper cuboid. The paper cube has a base area of 36 cm². Which one of the following could possibly be the dimensions of the paper cuboid?

(1) 5 cm by 2 cm by 2 cm

(2) 3 cm by 5 cm by 3 cm

(3) 10 cm by 4 cm by 3 cm

(4) 5 cm by 6 cm by 9 cm

15) Every day, Winifred spends $\frac{3}{8}$ of a day on doing the household chores. She spends $\frac{1}{3}$ of the remaining day on coaching her four children in their studies. Given that she spends the same amount of time on the four children, what fraction of the day does she spend on each child?

(1) $\frac{1}{32}$

(2) $\frac{5}{96}$

(3) $1\frac{1}{6}$

(4) $2\frac{5}{6}$

End of Booklet A

Name : _____( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2010 Continual Assessment One

Paper 1

Booklet B

1 March 2010

15 questions
20 marks

TOTAL TIME FOR BOOKLET A & B : 50 MINUTES

INSTRUCTIONS TO CANDIDATES
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FOLLOW ALL INSTRUCTIONS CAREFULLY.
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This booklet consists of 8 printed pages including the cover page.

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

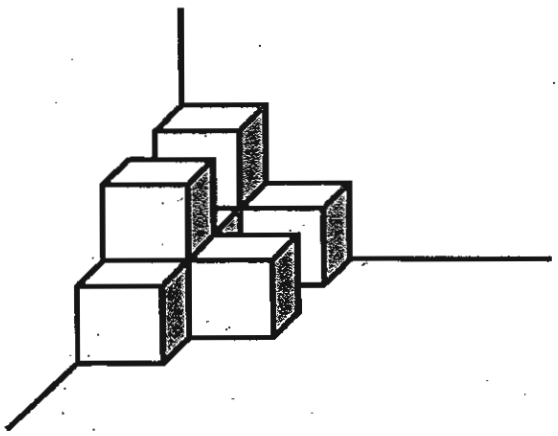
(10 marks)

Do not write in this space.

16) The perimeter of a rhombus is $\frac{7}{12}$ m. What is the length of each side of the rhombus?

Ans : _____ m

17) The figure is made up of identical cubes of edge 3 cm. What is the total volume of the figure?



Ans : _____ cm^3

18) $\frac{4}{7}$ of the members in a club are home-makers. What percentage of the members in the club are home-makers?

Do not write in this space.

Ans: _____ %

19) Abel participated in a National Education quiz and clinched the 22nd position. His position was just behind $\frac{3}{7}$ of all the participants. How many participants were there altogether?

Ans: _____

20) Bailey spent e weeks on his wedding preparations. He spent 9 days more than Ignatius. How many days did Ignatius spend on his wedding preparations?

Ans: _____ days

21) Find the value of $8 \div 6 \times 2 + 10 - 3$.

Do not write in this space.

Ans: _____

22) Round off each of the numbers to the nearest 100. Then find the value of 135 408 – 1662.

Ans: _____

23) Mrs Olea had $\frac{3}{10}\ \ell$ of olive oil. She used $\frac{1}{6}$ of it to fry some chicken wings. How many litres of olive oil did she use?

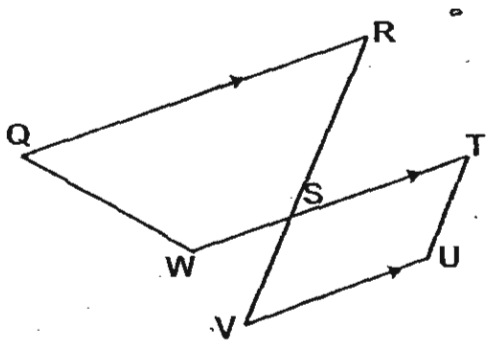
Ans: _____ ℓ

24) Mr Yiyee jogged daily from Tuesday to Saturday. He jogged a total distance of 6.24 km. If he jogged the same distance per day, how many kilometres did he jog per day?

Do not write in this space.

Ans: _____ km

25) The figure below, not drawn to scale, comprises two geometric figures. Name the geometric figure which has two equal opposite angles.

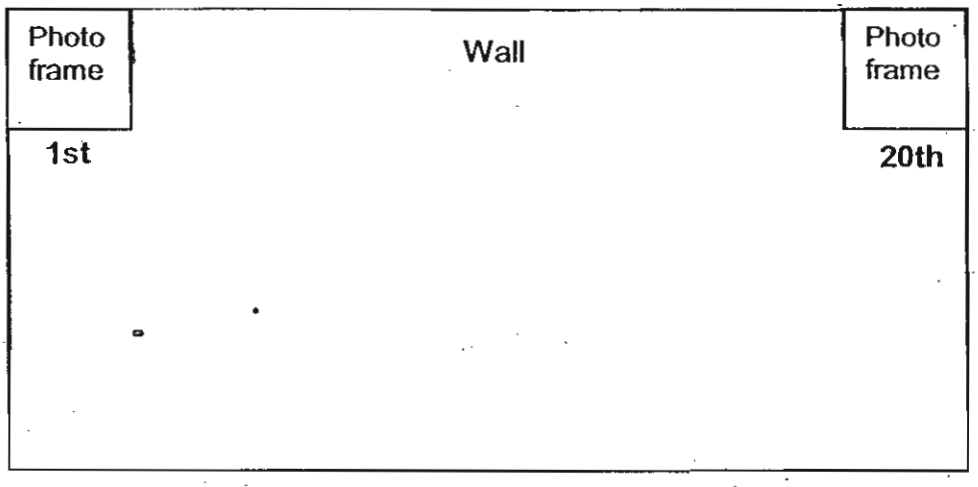


Ans: Figure _____

Questions 26 to 30 carry 2 marks each. Show your working clearly in the 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) Bianca mounted 20 square photograph frames of side 16 cm on the wall, as shown in the figure. Every photograph frame was placed equally apart from one end of the wall to the other end. The distance between the first and the second photograph frame was 50 cm. How wide is the wall from one end to the other end?



Ans: _____ m

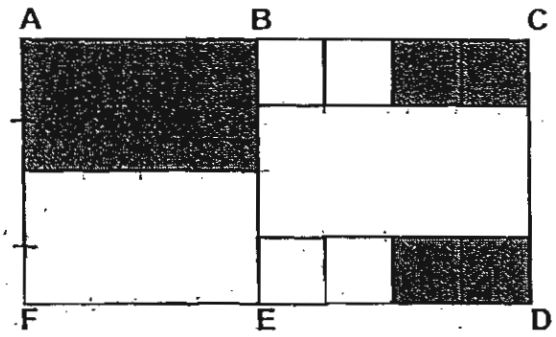
75

27) Meredith is $\frac{1}{4}$ of Kesler's age. Given that Meredith is 8 years old, what is their combined age in c years' time?

Do not write in this space.

Ans: _____

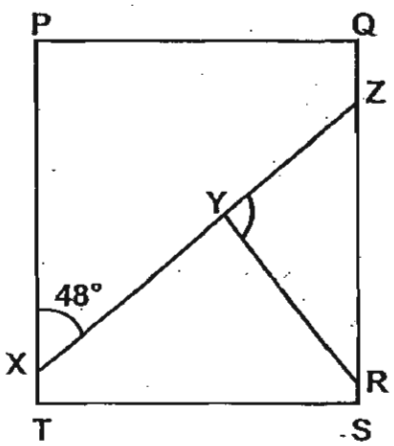
28) The figure below is made up of 3 identical rectangles and 8 identical squares. How many more squares must be shaded to show $\frac{1}{8}$ of the figure unshaded?



Ans: _____

29. The figure below, not drawn to scale, shows a rectangle PQST. Given that ZY = YR, find $\angle ZYR$.

Do not write in this space.



Ans : _____°

30) Three boys, Colby, Timothy and Moby, have a total mass of 68.5 kg. Colby weighs 3.1 kg more than Timothy and 0.8 kg less than Moby. What is Timothy's mass?

Ans : _____kg

Name : _____( )

Class : Primary 6_____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2010 Continual Assessment One

Paper 2

1 March 2010

Paper 1	40
Paper 2	60
Total Marks	100

_____
Parent's/Guardian's Signature

18 questions
60 marks

TOTAL TIME FOR PAPER 2 : 1 HOUR 40 MINUTES

INSTRUCTIONS TO CANDIDATES

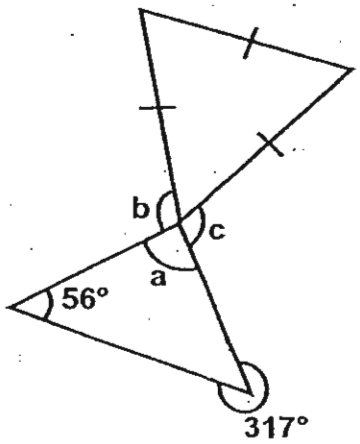
DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
THE USE OF AN APPROVED CALCULATOR IS EXPECTED, WHERE APPROPRIATE.

This booklet consists of 15 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) The figure below is not drawn to scale. Given that $\angle b = \angle c$, express $\angle a$ as a fraction of the sum of $\angle b$ and $\angle c$.

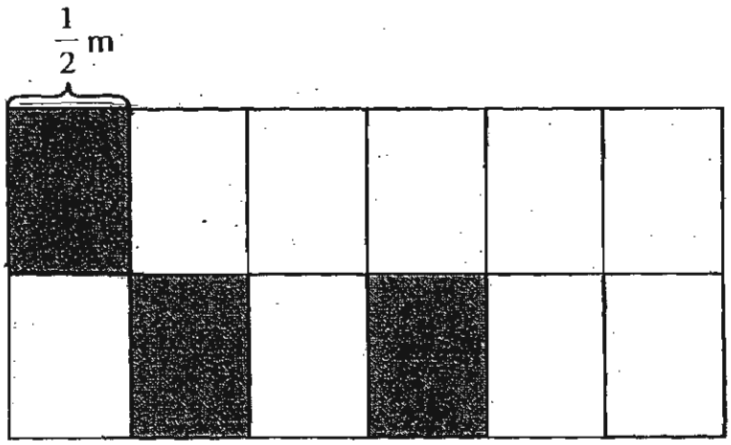


Ans : _____

2) A tub of length and breadth 46.5 cm and 25 cm respectively contained 41 775 cm^3 of water. Another 16.35 ℓ of water was required to fill half of the tub. Find the height of the whole tub.

Ans : _____ cm

3) The figure below is made up of rectangles of equal size. The total perimeter of the shaded parts is 8 m. What is the area of each rectangle?



Ans : _____ ~~m~~ m^2 ~~cm^2~~

4) A cubical tank of edge 27 cm was 68% filled with water. Some water was drained away and the water level dropped by 7 cm. How much water was left in the tank? Leave your answer in cm^3.

Ans : _____ cm^3

Do n write this :

5) A box contained a total of 506 ten-cent coins and five-cent coins. All the ten-cent coins were worth $15. If all the five-cent coins were removed from the box and replaced by twenty-cent coins of the same value as the five-cent coins, how many twenty-cent coins would replace the five-cent coins?

Do not write in this space.

Ans : _____

81

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) (a) In the space below, draw a triangle ABC in which AC = 7 cm, CB = 9 cm and $\angle ACB = 40°$.

A 7 cm C [2]

(b) Measure and write down the size of $\angle CAB$.

Ans: _____ [1]

7) For every gram of sugar Mrs Pow used for baking, she needed 4 times as much flour as sugar. The sugar cost $2 per kg and the flour cost $3 per kg. Mrs Pow spent a total of $84 on the sugar and the flour. How much flour did she use in all?

Ans: _____ [3]

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8) A flask is $\frac{1}{3}$ filled with chocolate powder. A teapot, twice as large as the flask, is $\frac{1}{4}$ filled with chocolate powder. Then the flask and the teapot are each filled with water completely and all the contents are mixed together into a chocolate drink. What fraction of the chocolate drink is the chocolate powder?

Ans: _____ [3]

9) Leroy had only \$9 and he needed to buy 85 magnets. His father gave him another \$r. The magnets were sold in a pack of 5 for \$r. How much more money did he need to pay for all the 85 magnets?

Do not write in this space.

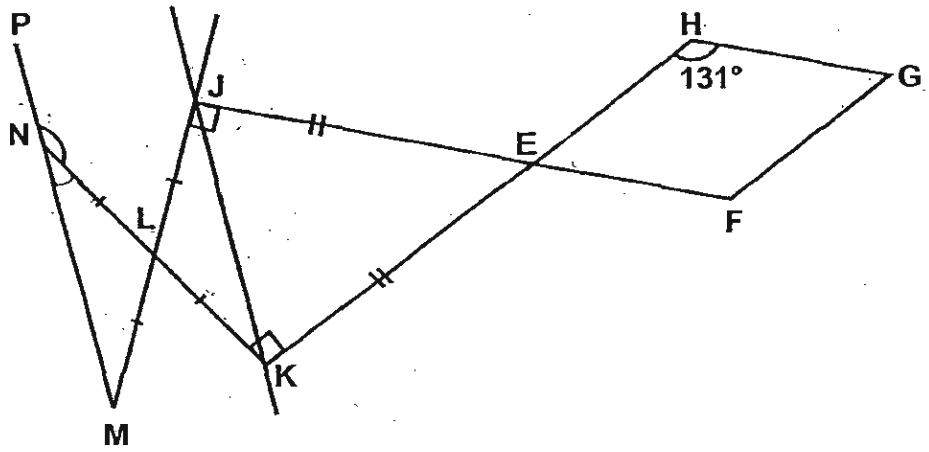
Ans: _____ [3]

10) In 2008, Rochelle received a monthly salary of \$7767 for $\frac{2}{3}$ years. For the rest of the year, her salary was \$6850 per month. In 2009, the total salary that she received for the whole year was 30% less than the total salary that she received in 2008. How much was her total salary in 2009?

Ans: _____ [3]

11) The figure below, not drawn to scale, shows a parallelogram EFGH and 3 isosceles triangles. HEK, JEF and MNP are straight lines. JLK and LNM are identical triangles. Find ∠ LNP.

Do not write in this space.



Ans: _____[3]

12) Harem scored 11.8 seconds for his shuttle run test. His teacher allowed him to re-take the test another two times. Harem's second timing was 90% of his first timing. His third timing was 0.9 seconds less than his second timing. Find the total time that he scored for the three tests. Round off your answer to 1 decimal place.

Do not write in this space.

Ans: _____ [4]

13) Benita and Mildred share a box of laminating sheets. If Benita were to give 25% of her share to Mildred, Benita would have half of Mildred's final share. If Benita were to give 16 laminating sheets to Mildred, Benita would have 54 fewer laminating sheets than Mildred. If they were to pack all their laminating sheets into boxes of 25 each, what is the least number of boxes required to pack all of them?

Do not write in this space.

Ans: _____ [4]

14) A Media Club consisted of 75 members. 32% of the members were boys. After some boys joined the club and some girls left the club, the club enrolment became 68, and the final number of boys was the same as the final number of girls. How many boys joined the club and how many girls left the club?

Do not write in this space.

Ans: Boys → _____

Girls → _____ [4]

15) Alexa received a number of text messages on her mobile phone. $\frac{2}{11}$ of them were from her superiors , $\frac{3}{5}$ were from her parents and $\frac{1}{6}$ of the remaining text messages were from her cousins. There were a total of 559 text messages from her superiors and her parents. How many text messages did Alexa receive from her cousins?

Do not write in this space.

Ans: _____ [5]

87

16) There are 4 nursery classes, A, B, C and D, in Healthikidz School. The product of the number of children in Class A and Class C is 168. There are a total of 23 children in Class B and Class C, and a total of 25 children in Class B and Class A. The number of children in Class D is $\frac{5}{7}$ of the number of children in Class A. How many children are there in Healthikidz School altogether?

Do not write in this space.

Ans:_____ [5]

17) Georgette and her friends were assigned to fold paper stars in three weeks' time. In the first 11 days, they folded 70 paper stars on each day. In the next 6 days, they folded 20% less than the total that they had folded in the last 11 days. If they still had 108 paper stars to fold per day for the remaining number of days, how many paper stars were they assigned to fold altogether in three weeks' time?

Do not write in this space.

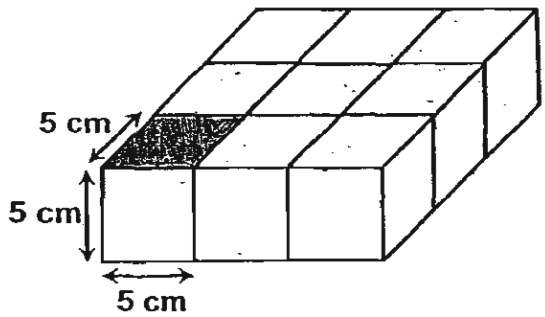
Ans: _____ [5]

18) Warwick had 423 cubes of edge 5 cm each. He used all of them to build a cuboid with a base as shown below.

Do not write in this space.

(a) Find the height of the cuboid.

(b) If Warwick were to use the 423 cubes to build another cube with an edge of 30 cm instead, how many cubes would he have left?



Ans: (a) _____ [2]

(b) _____ [3]

End of Paper

ANSWER SHEET

EXAM PAPER 2010

SCHOOL : CHIJ PRIMARY
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : CA1

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

16)7/48m **17)216cm^3** **18)57$\frac{1}{7}$%** **19)49** **20)(7e – 9)days**

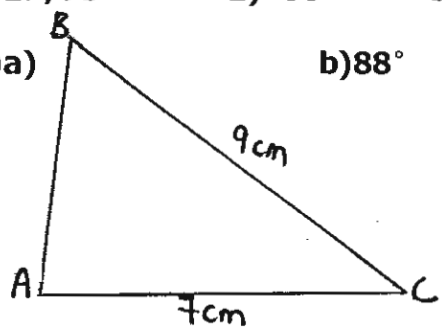
21)9$\frac{2}{3}$ **22)133700** **23)0.050ml** **24)1.248km** **25)STUV**

26)12.7m **27)(40+2c)yrs old** **28)16 squares** **29)84°** **30)20.5kg**

Paper 2

1)27/73 **2)100** **3)1$\frac{1}{4}$m^2** **4)8281.44cm^3** **5)89 coins**

6)a)



b)88° **7)24kg** **8)5/18** **9)$16r**

10)$62675.20 **11)155.5°** **12)32.1seconds** **13)8 boxes**

14)Boys→10
Girls→17

15)26 text message **16)47** **17)1818**

18)a)235 **b)207**