Name : _____( )

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2014 Continual Assessment One

Paper 1

Booklet A

4 March 2014

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 7 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)

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1) Which of the following shows four million, ten thousand, six hundred and two?

(1) 4 001 602 (2) 4 010 602

(3) 4 100 602 (4) 4 100 620

2) The number of participants at the Singapore Marathon last year was about 65 000 when rounded off to the nearest thousand. What could be the actual number of participants?

(1) 64 099 (2) 64 400

(3) 65 490 (4) 65 500

3) What is eight hundredths less than 13.4?

(1) 12.6 (2) 13.32

(3) 13.48 (4) 14.2

4) How many fifths are there in $\frac{6}{15}$?

(1) 6 (2) 2

(3) 3 (4) 9

5) Which of the following is equivalent to $\frac{1}{4}$?

(1) $\frac{1}{4}$ x 16 (2) $\frac{1}{25}$ x 100

(3) 15 ÷ 60 (4) 4 ÷ 1

6) Express 7.62 as a percentage.

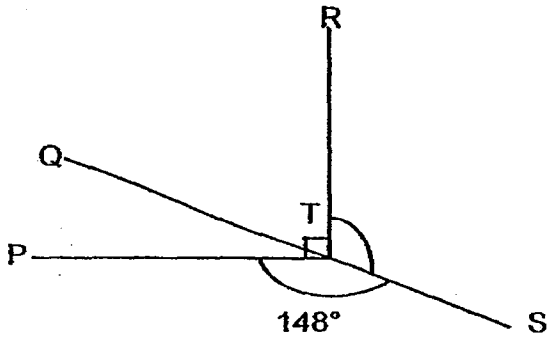
(1) 762%

(2) 76.2%

(3) 7.62%

(4) 0.762%

7) The figure below is not drawn to scale.
QTS is a straight line and $\angle PTS = 148°$. Find $\angle RTS$.



(1) 32°

(2) 122°

(3) 193°

(4) 238°

8) There is 4.45 ℓ of water in a container. When 5 ℓ 60 mℓ of water is added into it, how much water is in the container now?

(1) 9.105 ℓ

(2) 9.456 ℓ

(3) 9.51 ℓ

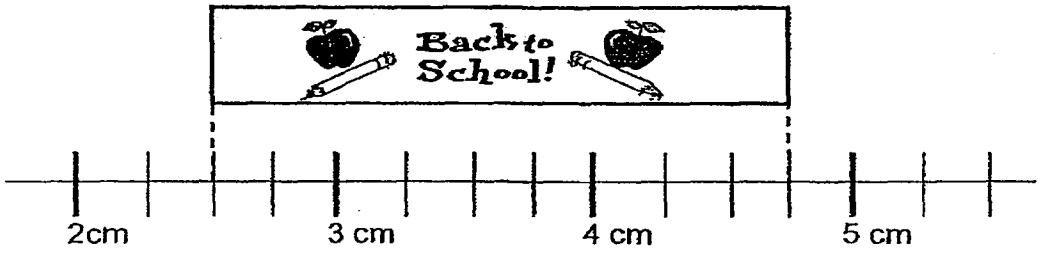
(4) 10.05 ℓ

9) A box contains some yellow and blue tiles. The total number of tiles is $\frac{7}{2}$ of the number of yellow tiles. What is the ratio of the number of yellow tiles to the number of blue tiles?

(1) 2 : 5 (2) 2 : 7

(3) 5 : 2 (4) 7 : 5

10) A bookmark was placed on a ruler as shown below. Find the length of the bookmark.



(1) 2.1 cm (2) 2.25 cm

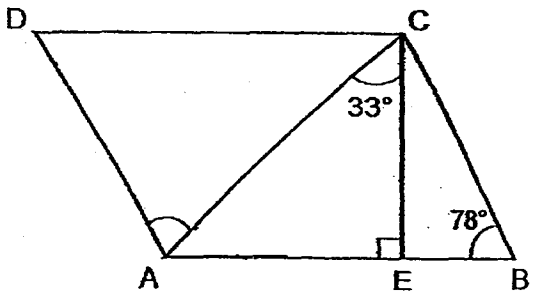
(3) 4.3 cm (4) 4.75 cm

11) The length of a rectangle is 6 cm. The perimeter of the rectangle is $5w$ cm. What is the breadth of the rectangle in terms of w?

(1) $(5w - 6)$ cm (2) $(5w - 12)$ cm

(3) $(\frac{5w-6}{4})$ cm (4) $(\frac{5w-12}{2})$ cm

12) The figure below is not drawn to scale.
ABCD is a parallelogram. Find $\angle CAD$.



(1) 45°

(2) 51°

(3) 57°

(4) 69°

13) There were 300 children and 450 adults attending a concert. 18% of the audience were men. How many men were there?

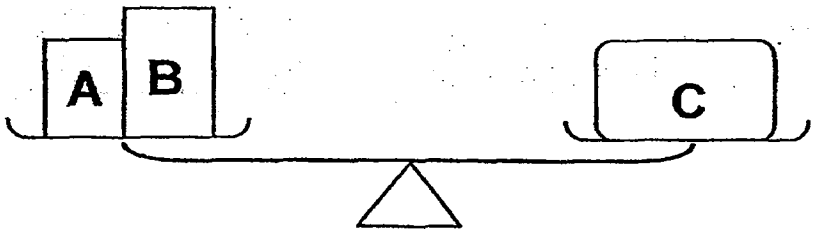
(1) 54

(2) 81

(3) 135

(4) 150

14) The figure below shows 3 parcels, A, B and C on a balanced scale. The mass of parcel A is $\frac{3}{4}$ of the mass of parcel B. If the total mass of the 3 parcels is 56 kg, find the mass of parcel A.



(1) 42 kg (2) 21 kg

(3) 18 kg (4) 12 kg

15) Debbie and Ella had some paper clips in the ratio 5 : 9. Ella gave away $\frac{1}{3}$ of her paper clips to a friend and had 72 paper clips left. How many paper clips did the girls have at first?

(1) 112 (2) 168

(3) 324 (4) 504

End of Booklet A

Name :_____ ( )

Class : Primary 6_____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)

Primary 6 Mathematics

2014 Continual Assessment One

Paper 1

Booklet B

4 March 2014

15 questions
20 marks

TOTAL TIME FOR BOOKLET A & B : 50 MINUTES

INSTRUCTIONS TO CANDIDATES
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FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
THE USE OF CALCULATORS IS NOT ALLOWED.

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) Simplify $18 + 5h - 4 + 9h - 4h$.

Ans:_____

17) Express 2870 cm in metres.

Ans : _____ m

18) Find the value of $36.18 \div 90$

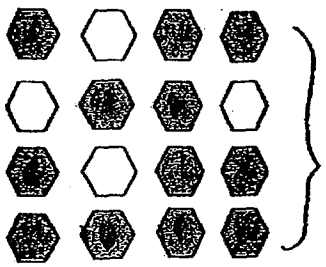
Ans : _____

19) Mrs Lee bought $\frac{3}{4}$ kg of salt. She used $\frac{1}{9}$ of it to season some meat. How much salt did she have left?

Do not write in this space.

Ans: _____ kg

20) What percentage of the shapes below is shaded?



Ans: _____ %

21) The number shown below is a 4-digit number. It is a multiple of 4.
What is the biggest possible digit in the box?

2	4	3	?

Ans : _____

22) In a fruit basket, the ratio of the number of apples to the number of pears to the number of oranges is 2 : 5 : 4. What fraction of the number of pears is the total number of apples and oranges?

Do not write in this space.

Ans : _____

23) How many pails, each of capacity $\frac{1}{12}\ell$, are needed to fill a tank with $\frac{5}{6}\ell$ of water?

Ans : _____

24) The Dance Club and the Guitar Club had an equal number of members. If $\frac{2}{9}$ of the Guitar Club members joined the Dance Club, what is the new ratio of the number of Dance Club members to the number of Guitar Club members?

Ans: _____

25) Rosella is n years old and she is thrice as old as Jay. How old will Jay be in 4 years' time? Leave your answer in terms of n.

Do not write in this space.

Ans: _____

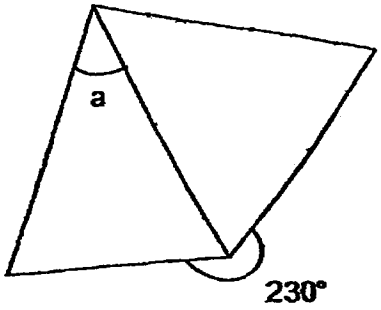
Questions 26 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

26) A group of 16 pupils shared a box of markers equally. 4 of them gave all their markers to the rest of the pupils. As a result, the rest of the pupils received 2 more markers each. How many markers were in the box at first?

Ans : _____

27) The figure below, not drawn to scale, shows an equilateral triangle and an isosceles triangle. Find $\angle a$.



Ans : _____ °

Do not write in this space.

28) The opening hours of Yummy Café is shown in the table below.

Openig Hours (Daily)
Lunch : 11.00 a.m. to 2.30 p.m.
Dinner : 4.00 p.m. to 10.45 p.m.

How long is Yummy Café open each day?

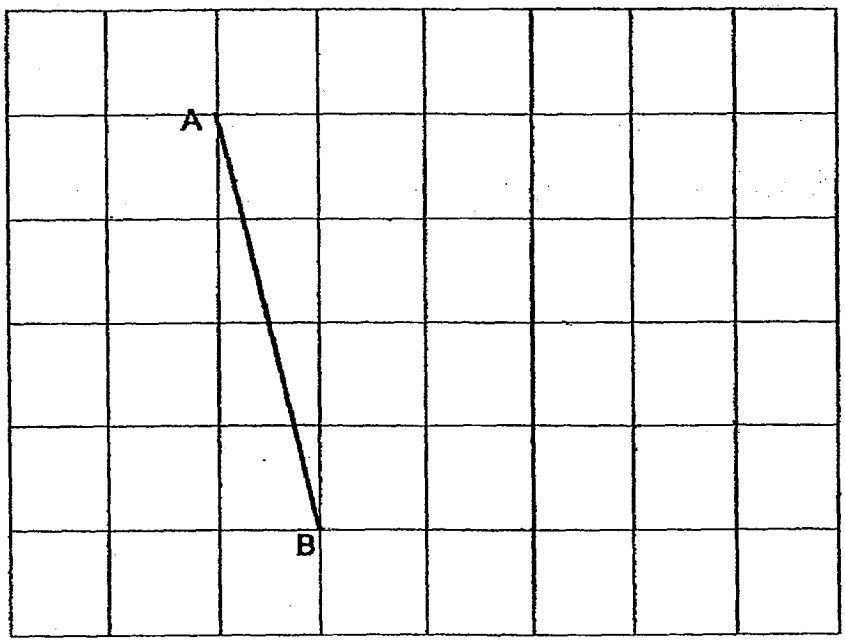
Ans : _____ h _____min

29) Selina started saving money on a Wednesday with $3. She saved $3 every day since then. On which day of the week would she have saved $93?

Ans : _____

30) AB is the side of a right-angled triangle ABC. Complete the triangle in the square grid below such that $\angle ABC = 90°$ and BC = 6 cm.

Do not write in this space.



End of Paper 1

Name : _____

Class : Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL(PRIMARY)

Primary 6 Mathematics

2014 Continual Assessment One

Paper 2
4 March 2014

Paper 1	/40
Paper 2	/60
Total	/100

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 16 printed pages including the cover page.

Questions 1 to 5 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)

Do not write in this space.

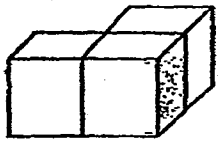
1. Mdm Rose used $1\frac{5}{6}$ m of cloth to make a bolster case and $1\frac{3}{4}$ m of cloth to make a pillow case. Altogether she made 7 bolster cases and 2 fewer pillow cases than bolster cases. What was the total length of cloth she used in all?

Ans: _____ m [2]

2. An electrical store gave away 2 discount coupons for every customer who made a purchase of $88. Mr Seeto received a total of 56 discount coupons. What was the minimum purchase he had made at the store?

Ans: $ _____ [2]

3. The solid figure below is made up of identical cubes. The area of the shaded face is 169 cm^2. What is the volume of the solid figure?



Ans: _____ cm^3 [2]

4. Mirah and Kaylee bought a gift for $160. They had to pay 7% GST for the gift. How much would each of them have to pay if they were to share the total cost of the gift equally?

Ans: $ _____ [2]

Do not write in this space.

5. Aunt Mala wanted to buy 8 m of lace but was short of $7.50. Then she bought 5 m of lace and had $3 left. Find the cost of 1 m of lace.

Do not write in this space

Ans: $_____ [2]

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]

Do not write in this space.

6. In the space below, draw a rhombus WXYZ in which $\angle WXY = 74°$.
The line XY has been drawn for you.

X 6 cm Y

[3]

7 A pair of jeans cost $\$p$. A T-shirt cost \$20 less than the pair of jeans.

(a) Owen bought 2 pairs of jeans and 1 T-shirt. How much did Owen pay in terms of p?

(b) If $p = 98$, find the total amount Owen paid.

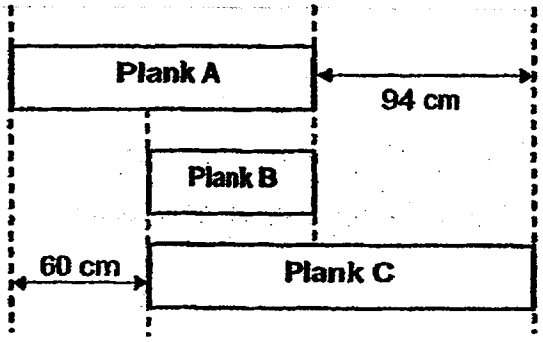
Do not write in this space.

Ans: a) _____ [2]

b) _____ [1]

8. The figures below show 3 wooden planks. The total length of the 3 wooden planks is 4.5 m. Find the length of plank B in cm. Leave your answer correct to 2 decimal places.

Do not write in this space.



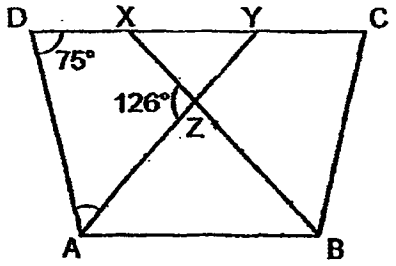
Ans: _____ [3]

9. There were 24 more nails than screws in a tool box. After the carpenter added 52 screws and 10 nails, there were 390 nails and screws in the tool box altogether. How many screws were in the tool box in the end?

Do not write in this space

Ans: _____ [3]

10. In the figure below, ABCD is a trapezium. AZB is an isosceles triangle with AZ = BZ. AY and BX are straight lines. Find $\angle DAZ$.



Ans: _____ [3]

11 Mr Song had 76 kg of peanuts. He sold $\frac{2}{5}$ of the peanuts on Monday and $\frac{4}{15}$ of the peanuts on Tuesday. He packed the remaining peanuts into small bags each containing $\frac{5}{11}$ kg of peanuts.

a) How many small bags of peanuts did Mr Song pack?

b) What is the mass of the peanuts left after packing into the small bags?

Do not write in this space

Ans: a) _____ [2]

b) _____ [2]

12. Miss Ng prepared some bags of cubes for an activity in her class. She tried placing 12 bags of cubes on each table but found that the last table had only 1 bag of cubes. If she placed 8 bags of cubes on each table, she would have 33 bags of cubes left. How many bags of cubes did she have?

Do not write in this space.

Ans: _____ [4]

13. The mass of a packet of jelly beans is $\frac{1}{6}$ of the mass of a bottle of oil. The mass of a bag of rice is thrice that of the mass of the bottle of oil. Given that the mass of the bag of rice is 1080 g more than the mass of the bottle of oil, what is the total mass of the 3 items?

Do not write in this space.

Ans: _____ [4]

14. A rectangular container measuring 26 cm by 35 cm by 12 cm is completely filled with water. Water from the container is poured into an empty cubical tank of edge 18 cm until the cubical tank is half-filled. How many litres of water are left in the container?

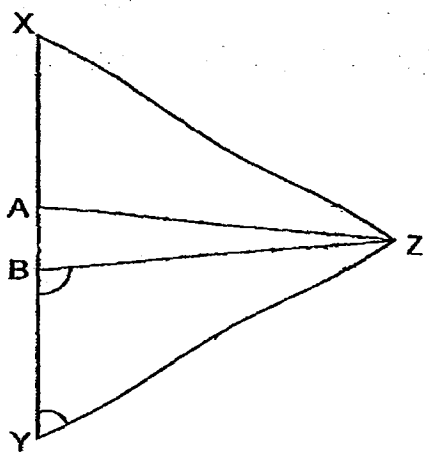
Do not write in this space.

Ans: _____ [4]

15. The figure below is not drawn to scale. Triangle XYZ is an equilateral triangle. Triangle ABZ is an isosceles triangle. $\angle AZB$ is $\frac{1}{5}$ of $\angle XYZ$. $\angle AZX = \angle BZY$.

a) Find $\angle AZX$.

b) Find $\angle YBZ$.



Do not write in this space.

Ans: a) _____ [2]

b) _____ [2]

16. At Sinora Shoes Store, the usual price of a pair of sandals was $79.50. Emiko bought a pair at a discount of 20%.

a) How much did she save from buying the pair of sandals at a discount?

b) If Emiko used her membership card, she would receive another 5% discount on the discounted price. How much did she have to pay for the pair of sandals in the end?

Do not write in this space.

Ans : a) _____ [1]

b) _____ [4]

17. Tickets for a Girl Band concert were sold at \$128 and \$228. All tickets for the concert were completely sold. The amount collected for the \$228 tickets was \$109 440. Given that the number of \$228 tickets was $\frac{3}{8}$ of the number of \$128 tickets, what was the amount collected from the sales of all the tickets?

Do not write in this space.

Ans: _____ [5]

18. A box filled with 40 magazines has a mass of 10.94 kg. The same box when filled with 25 notebooks has a mass of 3 kg 680 g. The mass of one magazine is twice the mass of one notebook. Find the mass of the box when it is empty.

Do not write in this space.

Ans: _____ [5]

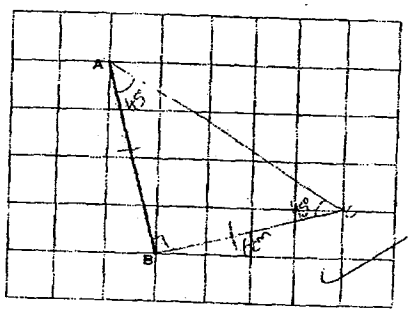
End of Paper 2

EXAM PAPER 2014

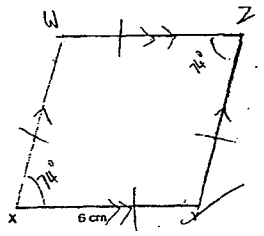
LEVEL : PRIMARY 6
SCHOOL : ST. NICHOLAS
SUBJECT : MATHS
TERM : CA1

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

Q16 14 + 10h
Q17 28.7m
Q18 0.402
Q19 $\frac{2}{3}$
Q20 75%
Q21 6
Q22 $\frac{6}{5}$
Q23 10
Q24 11:7
Q25 $(\frac{n}{3} + 4)$
Q26 96 marbles
Q27 40°
Q28 10h 15min
Q29 Friday
Q30



PAPER 2

Q1		7 -2 = 5 $(1\frac{5}{6}$ m x 7) + $(1\frac{3}{4}$m x 5) = $21\frac{7}{12}$m
Q2		56 ÷ 2 = 28 28 x $88 = $2464
Q3		$\sqrt{169}$ = 13 13 x 13 x 13 = 2197 2197 x 3 = 6591
Q4		$106 x 107% = $171.20 $171.20 ÷ 2 = $85.60
Q5		Cost of 5m of cloth + $3 = Cost of 8m of cloth -$7.50 Cost of 3m of cloth → $10.50 Cost of 1m of cloth → $3.50
Q6		
Q7	(a)	Jeans → $p t-shirt → $p - $20 $(3p -20)
	(b)	If p = 98 $(3x98 -20) = $274
Q8		4.5m ⇒ 450cm 450cm −94cm−60cm=296cm 296cm ÷ 3 ≈ 98.67cm
Q9		390 − 52 −10 = 328 Scores (CB) (328 − 24)÷2 = 152 Scores (CA) 152 + 52 = 204

Q10		$360° - 126° - 126° = 108°$ $108° \div 2 = 54°$ $180° - 54° = 126°$ $126° \div 2 = 63$ $180° - 75° = 105°$ $105° - 63° = 42°$
Q11	(a)	$1 - \frac{2}{5} - \frac{4}{15} = \frac{1}{3}$ $\frac{1}{3} \times 76\ kg = 25\frac{1}{3} kg$ $25\frac{1}{3} \div \frac{5}{11} = 55\frac{11}{15}$ ≈ 55.7333 ≈ 55
	(b)	$55 \times \frac{5}{11}\ kg = 25kg$ $25\frac{1}{3} kg - 25kg = \frac{1}{3} kg$
Q12		$12 - 1 = 11$ $33 + 11 = 44$ $12 - 8 = 4$ $44 \div 4 = 11$ $11 \times 12 = 132$ $132 - 11 = 121$
Q13		$1080g \div 2 = 540g$ $540g \times \frac{1}{6} = 90g$ $1080g + 540 \times 2 + 90g = 2250g$
Q14		$26cm \times 35cm \times 12cm = 10920cm^3$ $18cm \times 18cm \times 18cm = 5832cm^3$ $5832cm^3 \div 2 = 2916cm^3$ $10920cm^3 - 2916cm^3 = 8004cm^3$ $= 8.004l$
Q15	(a)	$60° \times \frac{1}{5} = 12°$ $60° - 12° = 48°$ $48° \div 2 = 24°$
	(b)	$180° - 24° - 60° = 96°$
Q16	(a)	$\$17.50 \times 20\% = \$15.90$
	(b)	$\$79.50 - \$15.90 = \$63.60$ $100\% - 5\% = 95\%$ $\$63.60 \times 95\% = \$60.42$

Q17		$109 440 ÷ $228 = 480 480 ÷ $\frac{3}{8}$ = 1280 1280 × $128 = $163 840 $163 840 + $109 440 = $273 280
Q18		40 × 2 = 80 80 − 25 = 55 3kg 680g ⇒ 3.68kg 10.94kg − 3.68kg = 7.26kg 7.26kg ÷ 55 = 0.132 kg 0.132 kg × 25 = 3.3kg 3.68kg − 3.3kg = 0.38kg