Anglo-Chinese School
(Junior)

SEMESTERAL ASSESSMENT 2 (2012)
PRIMARY 5

MATHEMATICS

PAPER 1
Booklet A

Friday 24 October 2012 50 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO.

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are not allowed to use a calculator.

Name:_____ ( )

Class: 5. ( )

Parent's Signature :_____

This question paper consists of 6 printed pages. (Inclusive of cover page)

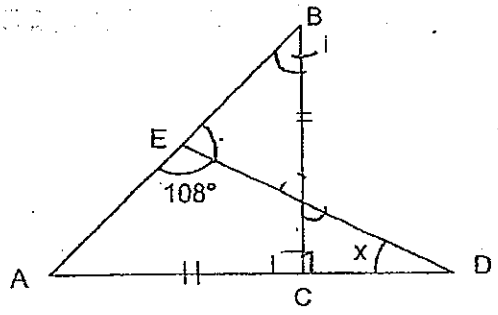
41

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) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1 How many hundreds are there in 849 700?

(1) 700
(2) 4 970
(3) 8 497
(4) 9 700 ( )

2 In the figure below, not drawn to scale, ABC is an isosceles triangle.
If $\angle AED = 108°$, find $\angle x$.



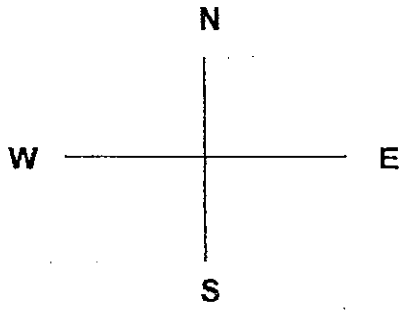
(1) 18°
(2) 27°
(3) 45°
(4) 63° ( )

3. What is the value of $(108 \div 9) + 7 \times 6 - 3$.

(1) 33
(2) 51
(3) 57
(4) 111 ( )

43

4. If you are facing Northwest and want to travel East, how many degrees clockwise must you turn ?



(1) 45°
(2) 90°
(3) 135°
(4) 180° ( )

5. How many sixths are there in $3\frac{5}{6}$?

(1) 15
(2) 18
(3) 23
(4) 90 ( )

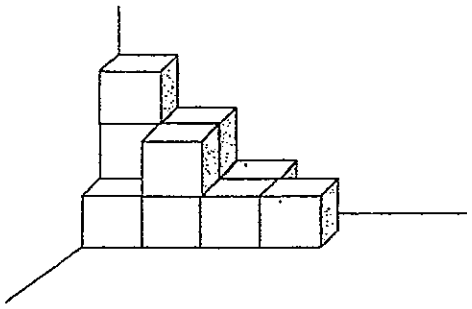
6. Express 0.805 ℓ in cubic centimetres.

(1) 0.805 cm^3
(2) 8.05 cm^3
(3) 80.5 cm^3
(4) 805 cm^3 ( )

7. Express $7\frac{19}{25}$ as a decimal.

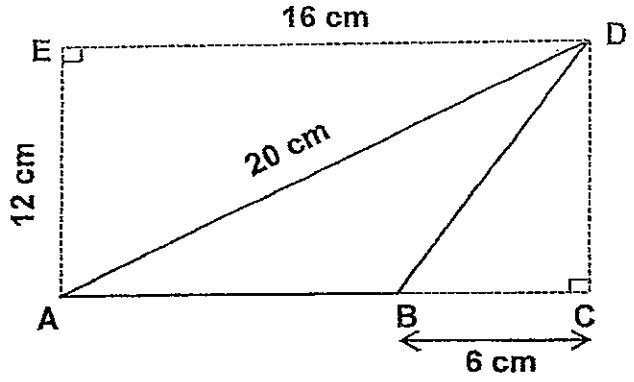
(1) 0.776
(2) 7.076
(3) 7.76
(4) 7.95 ( )

8. How many unit cubes are used to build the solid in the diagram below?



(1) 9
(2) 10
(3) 11
(4) 12 ( )

9. In the figure below, not drawn to scale, ABC is a triangle. Find the area of the triangle ABC.



(1) 36 cm^2
(2) 60 cm^2
(3) 96 cm^2
(4) 120 cm^2 ( )

10. A tank contained 20.4ℓ of orange juice. The juice was poured into 250ml bottles. Find the maximum number of completely filled bottles of orange juice when all the orange juice was poured out of the tank.

(1) 8
(2) 9
(3) 81
(4) 82 ( )

11. Ethan had a total of $420, consisting of $5 and $10 notes. Given that he had four times as many $5 notes as $10 notes, how many $5 notes did he have?

(1) 14
(2) 21
(3) 42
(4) 56 ( )

12. A packet contained $2\frac{1}{15}$ ℓ of mineral water. Marcus drank $\frac{1}{5}$ ℓ of the mineral water every day. How much mineral water was left after a week?

(1) $\frac{4}{15}$ ℓ

(2) $\frac{2}{3}$ ℓ

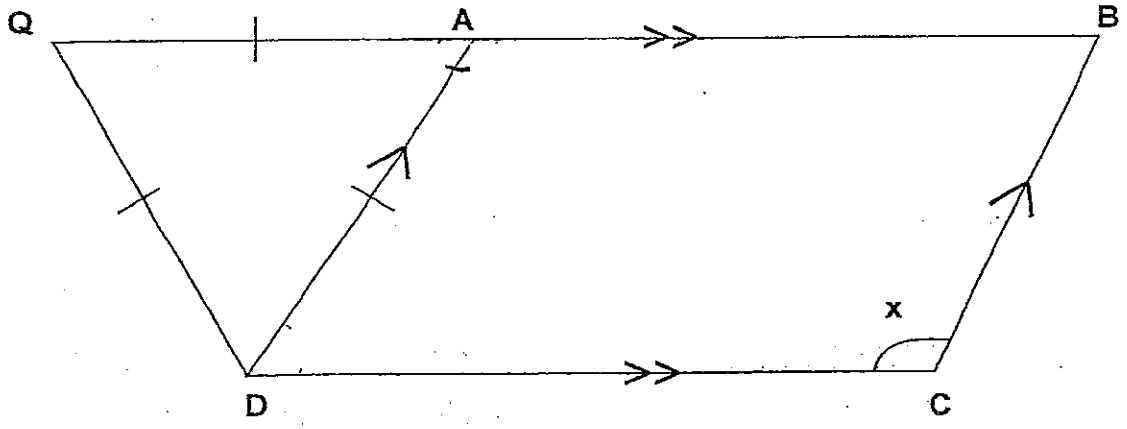
(3) $1\frac{13}{15}$ ℓ

(4) $1\frac{3}{5}$ ℓ ( )

13. There were 250 pupils in a hall and 40% of them were girls. Then 50 girls entered the hall. What was the new percentage of girls in the hall in the end?

(1) 33%
(2) 40%
(3) 50%
(4) 60% ( )

14. In the figure below, not drawn to scale, ABCD is a parallelogram. Given AQD is an equilateral triangle, find ∠x.



(1) 45°
(2) 60°
(3) 120°
(4) 135° ( )

15. Nathan had four of Coin A and two of Coin B in his pocket. He took out two coins from his pocket and put them into a donation tin. Which of the following amount could **not** be his total donation?

Coin A

Coin B

(1) $ 0.40
(2) $ 0.70
(3) $ 0.80
(4) $ 1.00 ( )

End of Paper-
Please check your work carefully ☺

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Anglo-Chinese School (Junior)

SEMESTERAL ASSESSMENT 2 (2012)
PRIMARY 5

MATHEMATICS

PAPER 1
Booklet B

Friday 24 October 2012 50 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO.

Follow all instructions carefully.

There are 15 questions in this booklet.

Answer ALL questions.

You are **not** allowed to use a calculator.

Name:_____ ( )

Class: 5. ( )

Parent's Signature :_____

Booklet	Possible Marks	Marks Obtained
A	20	
B	20	
TOTAL	40	

This question paper consists of 8 printed pages. (Inclusive of cover page)

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which requires units, give your answers in the units stated. (10 marks)

16 Round off the product of 7856 and 8 to the nearest thousand.

17. The difference between 7 tenths and 36 thousandths is _____.

18. The volume of a cuboid is 2 700m^3. The area of the square base is 225m^2. What is its height?

m

49

19. The usual price of a football is $50. There is an additional discount of 10% for members on top of the storewide 20% discount during the Great Singapore Sales. How much do the members have to pay for the football?

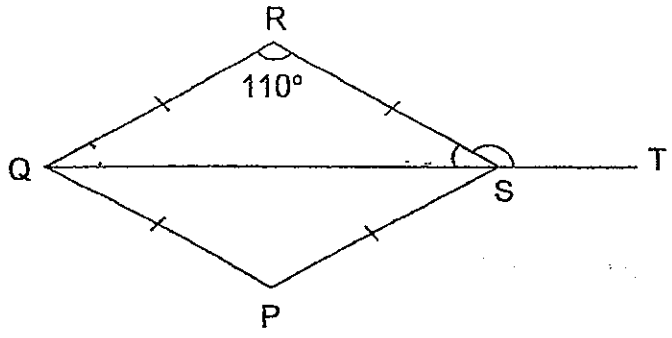
$

20. A group of 300 children were asked about their mode of transport to school. $\frac{2}{3}$ of the children go to school each day by car and the rest go to school by school bus.

How many children go to school by bus?

21. Given the number of fiction books is $\frac{2}{3}$ the number of non-fiction book, what is the ratio of non-fiction books to the total number of books?

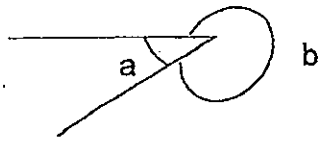
22. The figure below is not drawn to scale. PQRS is a rhombus. Given QT is a straight line and $\angle QRS = 110°$, find $\angle RST$.



°

51

23. The ratio of a:b is 1:5. Find the value of $\angle a$.



°

24. A packet of potatoes weighs $\frac{3}{4}$ kg. A packet of tomatoes weighs twice as heavy as the packet of potatoes. Find the total weight of the potatoes and the tomatoes.

Express your answer as a mixed number.

kg

25. Ethan cycled 30 km in 1 hour. How far did he cycle in 1 minute? (Express your answer in metres)

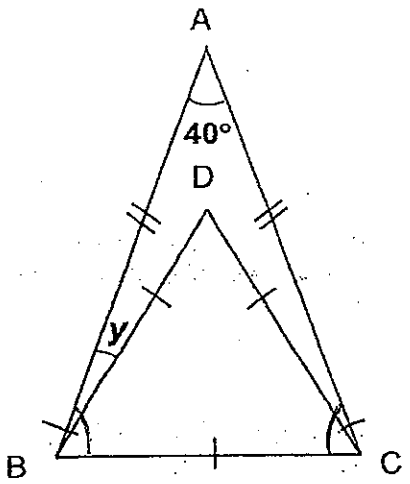
m

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

26. Kevin spent $\frac{1}{4}$ of his salary on clothes. He gave $350 to his parents. He was then left with half of his salary. What was his salary?

$

27 The figure below is not drawn to scale. Given that ABC is an isosceles triangle and DBC is an equilateral triangle, what is the value of $\angle y$?



°

53

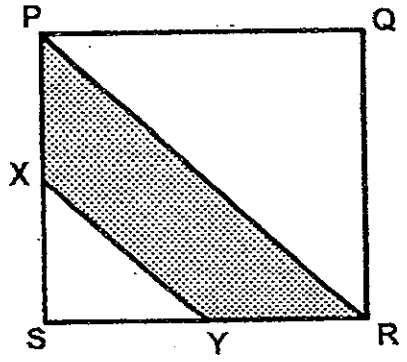
 Sub-Total :

28 The ratio of Elliot's savings to Jerry's savings is 6 : 7. If Elliot saves $18 more and Jerry spends $9, they will have the same amount of money. How much is Elliot's savings?

$

29. There were 9 times as many cupcakes in Box C as in Box D. After 588 cupcakes were transferred from Box C to Box D, both boxes had the same number of cupcakes. Find the number of cupcakes in Box C at first.

30. In the figure below, not drawn to scale, PQRS is a square of side 24 cm. X is the mid-point of PS and Y is the mid-point of RS. Find the area of the shaded region.



cm^2

-End of Paper-
Please check your work carefully ☺

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Anglo-Chinese School
(Junior)

SEMESTERAL ASSESSMENT 2 (2012)
PRIMARY 5

MATHEMATICS

PAPER 2

Friday 24 October 2012 1 h 40 min

INSTRUCTIONS TO PUPILS

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Follow all instructions carefully.

There are 18 questions in this booklet.

Answer ALL questions.

You are allowed to use a calculator.

Name:_____ ( )

Class: 5. ( )

Paper	Possible Marks	Marks Obtained
1	40	
2	60	
TOTAL	100	

Parent's Signature :_____

This question paper consists of 14 printed pages. (Inclusive of 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)

---

1. The ratio of Kevin's cards to John's cards is 5 : 7. If Kevin gives 20 cards to ~~Alex~~'s, the ratio becomes 1 : 2. Find the number of cards they have altogether.
John's

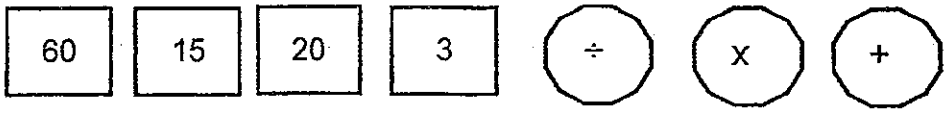
Ans: _____ [2]

2. Mr Tan spent $\frac{3}{7}$ of his money on a keyboard and $\frac{1}{4}$ of the remaining money on a game disc. If he had $60 left, how much money did he have at first?

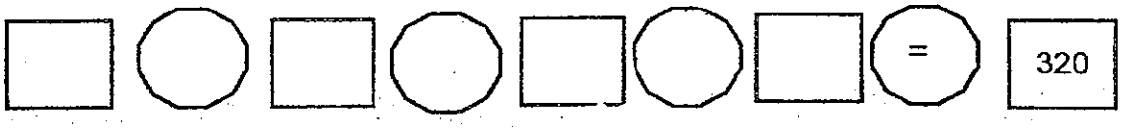
Ans: _____ [2]

57

3. Bob was given a puzzle to solve with the following number cards and operation sign. He had to form a number sentence with the answer 320. Use the numbers and symbols to complete the number sentence.



Answer:



4. Owen has 7250 cm of string. He cuts it into 100 equal pieces, what would be the length of each piece of string? (Express your answer in metres)

Ans: _____m [2]

5. The average mass of 8 passengers in a mini-van was 72kg. After 3 passengers alighted from the mini-van, the average mass became 66kg. What was the average mass of the 3 passengers who alighted from the minivan?

Ans: _____kg [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. All diagrams are not drawn to scale unless otherwise stated.
The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (50 marks)

6. The ratio of the number of apples to the number of mangoes in a basket was 2 : 1. When 18 mangoes were added to the basket, the ratio of the number of apples to the number of mangoes became 8 : 7. How many mangoes were there in the basket in the end?

Ans: _____ [3]

59

7. Abe, Ben and Chris share some money. $\frac{1}{4}$ of Abe's share is equal to $\frac{1}{2}$ of Ben's share. Ben gets $\frac{1}{3}$ of what Chris gets. If Ben gets \$50, calculate their total sum of money.

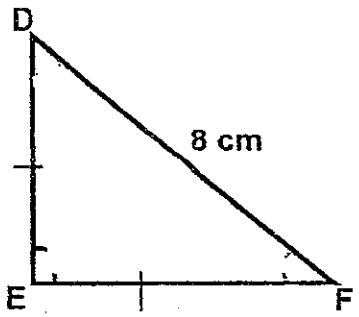
Ans: _____ [3]

8. Aidil has 233 yo-yos in his collection. He has 87 fewer yo-yos than Chandra. Stephen has $\frac{5}{8}$ as many yo-yos as Chandra. Find the average number of yo-yos the three children have?

Ans: _____ [3]

 Sub-Total :

9. The figure below, not drawn to scale, shows a right-angled isosceles triangle DEF. The length of DF is 8 cm. Find the area of the triangle.



Ans: _____ [3]

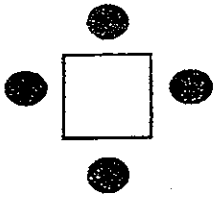
10. Mr Tan sold muffins at $3 each. During a promotional event, for every 3 muffins purchased, he gave 1 muffin free to the customer. What was the least possible amount he could earn during the promotional event if he sold and gave away a total of 314 muffins?

Ans: _____ [3] 61

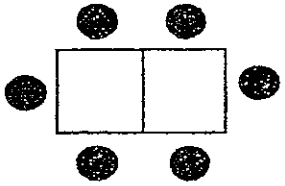
11. In a stadium, there are 700 seats and $\frac{1}{4}$ of them are first class seats. How many first class seats must be added so that the number first class seats will be increased to $\frac{3}{10}$?

Ans: _____ [4]

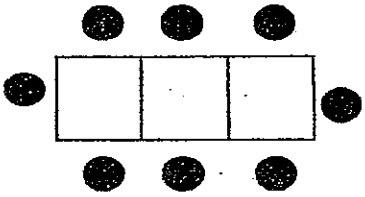
12. A Community Club was planning to arrange chairs and square tables for a mass dinner in a long hall. They drew and numbered some arrangements and wrote down some notes as shown:



Arrangement 1



Arrangement 2



Arrangement 3

Notes:

Arrangement number	*Number of tables* □	*Number of chairs* ●
1	1	4
2	2	6
3	3	8

If the arrangement was continued in the same pattern,

(a) how many chairs were needed if 5 tables were joined together?

(b) how many chairs were needed if 20 tables were joined together?

(c) which arrangement would require 100 chairs?

Ans: (a) _____ [1]

Ans: (b) _____ [1]

Ans: (c) _____ [2]

63

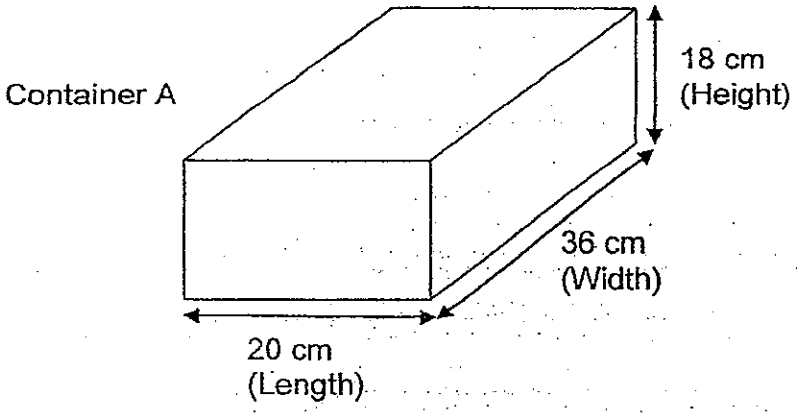
Sub-Total: ____

13. Aaron wanted to buy some files and exercise books. A file costs 5 times as much as an exercise book. Instead of spending all his money on 2 files and 8 exercise books, Aaron bought 3 files and 1 exercise book and had $ 1.20 left. How much had he at first?

Ans: _____ [4]

 Sub-Total:

14. Container A is filled to the brim with water. The water is then poured into Container B. The length of Container B is 3 times that of Container A. The width of Container B is $1\frac{1}{2}$ times that of Container A. The height of Container B is $\frac{1}{3}$ that of Container A. How much more water is needed to fill Container B to the brim?



Ans: _____ [4]

65

15. Alex did not have any stickers at first and William sold 40% of his stickers. After Alex bought 60% of the stickers that William sold, he still had 144 stickers less than William. How many stickers had William left?

Ans: _____ [4]

16. Three boys, Alex, Ben and Calvin have some marbles. The number of marbles Alex has is $\frac{1}{4}$ the total number of marbles Ben and Calvin have. The number of marbles Ben has is $\frac{1}{5}$ the total number of marbles Alex and Calvin have. If Calvin has 152 marbles, how many marbles do the three boys have altogether?

Ans: _____ [5]

67

17. Three friends Randy, Seth and Ted had 288 stamps in all. Randy gave some of his stamps to Seth and Seth's stamps were doubled. Then, Seth gave some of his stamps to Ted and Ted's stamps were doubled. In the end, the 3 boys had an equal number of stamps each. How many stamps did Randy have at first?

Ans: _____ [5]

18.. 60% of the balls in a box were blue balls, 30% of the rest were orange balls and the rest were pink balls. When some of the balls were thrown away, 50% of the blue balls were left. How many pink balls were there at first if 90 blue balls were left?

Ans: _____ [5]

-End of Paper-
Please check your work carefully ☺

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Answer Ke

SCHOOL : ACS Primary School
SUBJECT : Primary 5 - Maths
TERM : SA 2

Order : _____

Paper 1

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

16 63000
17 0.664
18 12
19 36
20 100
21 3:5
22 145
23 60
24 2 1/4
25 500
26 1u > 350
4u > 350 x 4 = $1400
27 180 - 40 = 140
140 ÷ 2 = 70
70 - (180 ÷ 3) = 10
28 1u > $9
18u > $162
29 4u > 588
1u > 147
9u > 1323
30 Area XSY > 1/2 x 12 x 12 = 72
Area PQR > 1/2 x 24 x 24 = 288
Area of square > 24 x 24 = 576
Shaded region = 576 - 288 - 72 = 216

EXAM PAPER 2012

SCHOOL : ACS Primary School
SUBJECT : Primary 5 - Maths
TERM : SA 2

Order : ...

Paper 2

1 1u > 20
12u > 240

2 1u > 60 ÷ 3 = 20
7u > 20 x 7 = 140

3 60 ÷ 3 x 15 ÷ 20

4 0.725m

5 72 x 3 = 576
66 x 5 = 330
576 - 330 = 246
246 ÷ 3 = 82kg

6 A : M
2 : 1
= 8: 4
=8 :7
3u > 18
1u > 6
7u > 6 x 7 = 42

7 2u > $50
1u > 25
12u > 25 x 12 = $300

8 8u > 233 + 87 = 320
1u > 320 ÷ 8 = 40
13u > 40 x 13 = $520
total > 520 + 233 = 753
Average > 753 ÷ 3 = 251.

9 $8^2 = 64$
64 ÷ 2 = 32
DE = EF = $\sqrt{32}$
area = 1/2 x $\sqrt{32}$ x $\sqrt{32}$ = 16cm^2

10 3 + 1 = 4
314 / 4 = 78.5
78 x 4 = 312
314 - 312 = 2
78 x 3 = 234
234 x $3 + 2 x $3 = $708

11 700 x 1/4 = 175
700 - 175 = 525
ratio of First class to non first class =
3:7
= 225 : 525
225 - 175 = 50

EXAM PAPER 2012

SCHOOL : ACS Primary School
SUBJECT : Primary 5 - Maths
TERM : SA 2

Order :

12a 12
12b 41
12c 49

13 2u > $1.20
1u > $0.60
18u > $0.60 x 18 = $10.80

14 Volume of water in container A > 20 x 36 x 18 = 12960
Length of container B > 20 x3 = 60cm
Width of container B > 1 1/2 x 36 = 54
Height of Container B > 1/3 x 18 = 6
Volume of container b > 60 x 54 x 6 = 19440
19440 - 12960 = 6480

15 60/100 x 40/100 = 6/25
60% - 24% = 36%
36% >144
60% > 240

16 152 ÷ 4 = 38
152 + 38 = 190
1/5 x 1/4 = 1/20
190 ÷ 5 = 38
38 ÷ 19 = 2
2 x 20 = 40
Ben has 40 marbles
Alex has 48 marbles
Total marbles = 40 + 48 + 152 = 240

17 Randy : 7 units
Seth: 3 units
Ted: 2 units
total units = 12
288 ÷ 12 = 24
12u > 24
24 x 7 = 168

18 Blue > 60%
Orange > 30/100 x (100-60) = 12%
Pink > 100 - 60 - 12 = 18%
50% of blue left = 50/100 x 60% = 30%
30% = 90
12/30 x 90 = 36