



Established since 1930

RULANG PRIMARY SCHOOL

Nurturing Competencies, Inspiring Excellence, Empowering Individuals
Scholars of Tomorrow

Name : _____ ()

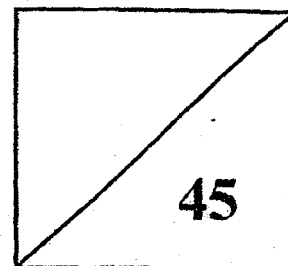
Total Marks
Paper 1

Level : Primary Five

Class : Primary 5 _____

Date : 26 October 2018

Setters : Mdm V Sajini and Mr Susiayanto



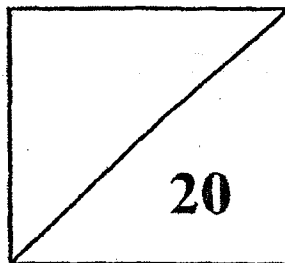
SEMESTRAL ASSESSMENT 2

2018

MATHEMATICS

PAPER 1

BOOKLET A



TOTAL TIME FOR PAPER 1 (BOOKLETS A & B): 1 hour

30 questions

45 marks

- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- READ ALL THE INSTRUCTIONS CAREFULLY.
- ANSWER ALL THE QUESTIONS.
- YOU ARE NOT ALLOWED TO USE A CALCULATOR.

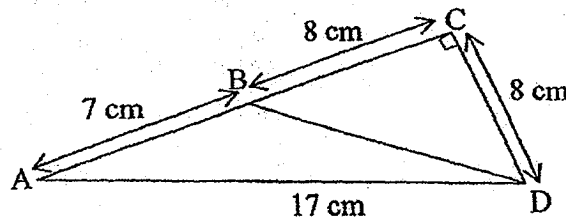
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of these is the correct answer. Make your choice (1, 2, 3 or 4) and shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1. There were 124 095 visitors to a museum last year. Round this number to the nearest thousand.
- (1) 100 000
 - (2) 120 000
 - (3) 124 000
 - (4) 125 000

2. A carton of canned drinks costs \$9.60. How much would Alan have to pay for 30 such cartons?
- (1) \$27.80
 - (2) \$28.80
 - (3) \$278
 - (4) \$288

3. In the figure below, AC, AD and CD are straight lines. What is the area of triangle ABD?

- (1) 68 cm^2
- (2) 60 cm^2
- (3) 56 cm^2
- (4) 28 cm^2



4. Express 1.05 kg in grammes.

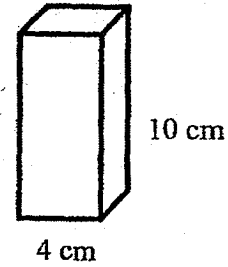
- (1) 10.5 g
- (2) 105 g
- (3) 1005 g
- (4) 1050 g

5. $64.4 \div 4000 = \boxed{?}$

- (1) $64.4 \div 4 \div 4000$
- (2) $64.4 \div 40 \div 100$
- (3) $6.44 \div 4 \div 1000$
- (4) $6.44 \div 40 \div 100$

6. A solid cuboid of height 10 cm has a square base of side 4 cm. What is its volume?

- (1) 40 cm^3
- (2) 160 cm^3
- (3) 320 cm^3
- (4) 400 cm^3

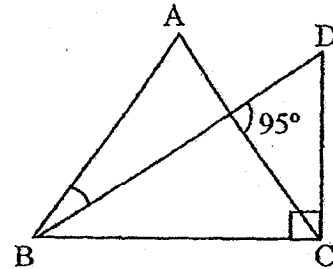


7. 18 out of 40 pupils in a class like to swim. What percentage of the pupils **do not** like to swim?

- (1) 22 %
- (2) 45 %
- (3) 55 %
- (4) 78 %

8. In the figure below, ABC is an equilateral triangle and BCD is a right-angled triangle. Find $\angle ABD$.

- (1) 25°
- (2) 35°
- (3) 45°
- (4) 60°

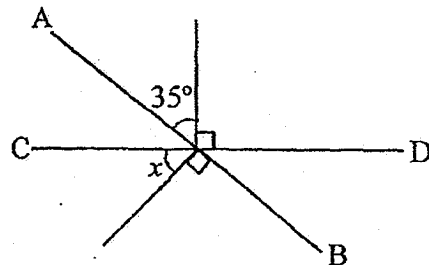


9. In a cinema, there are 54 men, 30 women and 18 children. What is the ratio of the number of women to the number of men? Give your answer in the simplest form.

- (1) 3 : 5
- (2) 5 : 3
- (3) 5 : 9
- (4) 9 : 5

10. In the figure below, AB and CD are straight lines. Find $\angle x$.

- (1) 145°
- (2) 125°
- (3) 55°
- (4) 35°



11. The table below shows the number of people who signed up for a health talk. The number of people who signed up for the talk on Friday was twice the number of people who signed up for the talk on Thursday.

| Day | Monday | Tuesday | Wednesday | Thursday | Friday |
|------------------|--------|---------|-----------|----------|--------|
| Number of people | 0 | 30 | 45 | ? | ? |

The average number of people who signed up for the health talk was 48. Find the number of people who signed up for the talk on Thursday.

- (1) 39
 (2) 55
 (3) 78
 (4) 110
12. A rope was cut into two pieces. The length of the first piece was 3.08 m. The second piece was thrice as long as the first piece. Find the total length of the rope before it was cut.

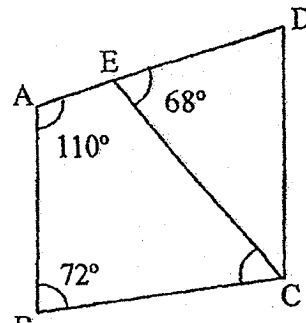
- (1) 9.24 m
 (2) 9.54 m
 (3) 12.32 m
 (4) 12.72 m

13. Which one of the following fractions is nearest to $\frac{1}{4}$?

- (1) $\frac{3}{8}$
 (2) $\frac{1}{6}$
 (3) $\frac{2}{3}$
 (4) $\frac{1}{5}$

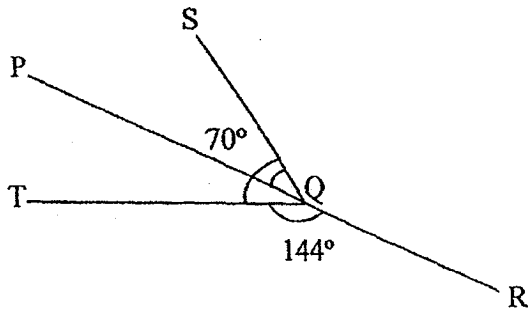
14. In the figure below, ABCD is a trapezium and AB is parallel to DC. $\angle ABC = 72^\circ$, $\angle CED = 68^\circ$ and $\angle BAE = 110^\circ$. Find $\angle BCE$.

- (1) 42°
 (2) 66°
 (3) 70°
 (4) 108°

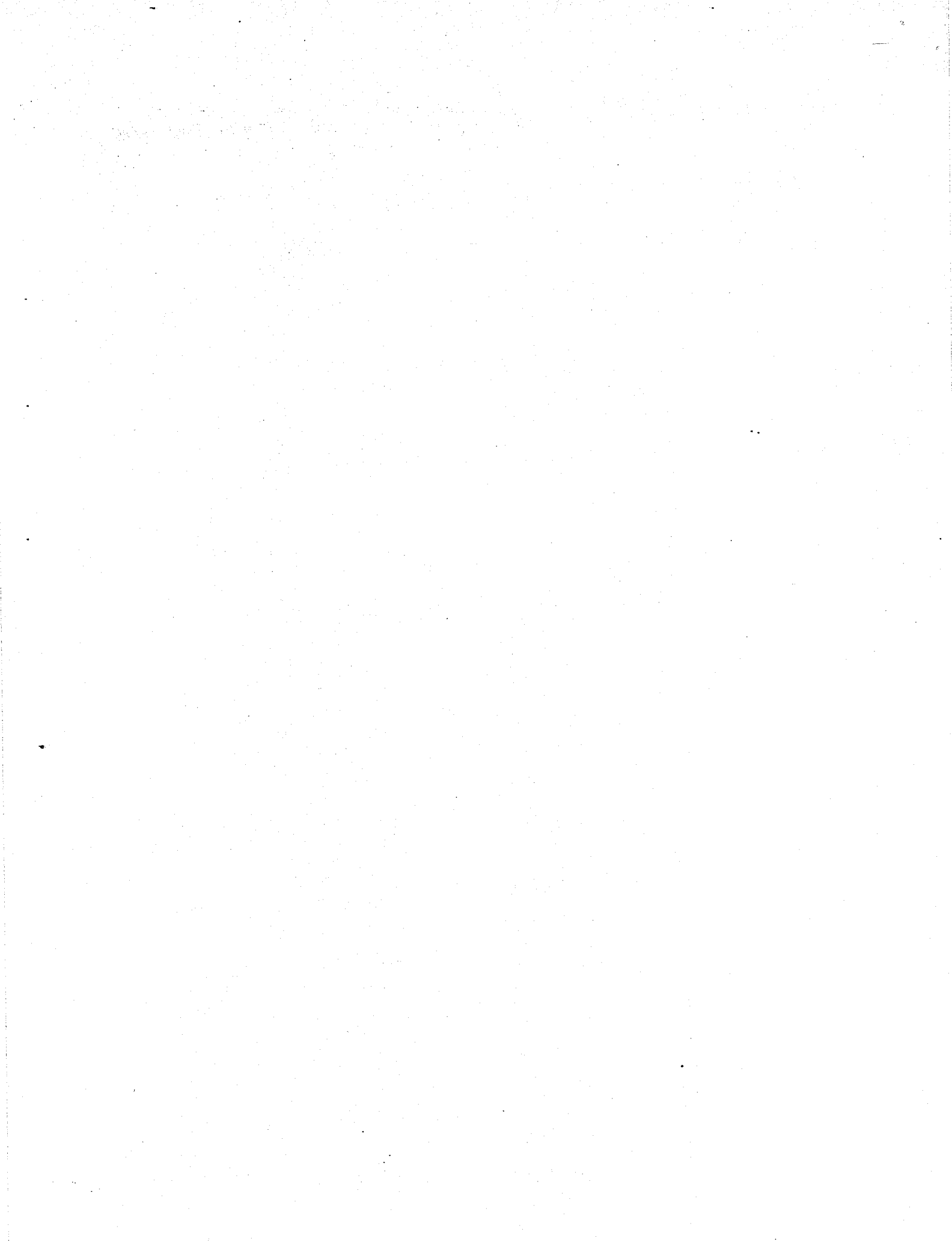


15. In the figure below, PQR is a straight line. $\angle RQT = 144^\circ$ and $\angle SQT = 70^\circ$. Find $\angle PQS$.

- (1) 34°
- (2) 36°
- (3) 74°
- (4) 110°



End of Paper 1 Booklet A





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Name : _____ ()

Level : Primary Five

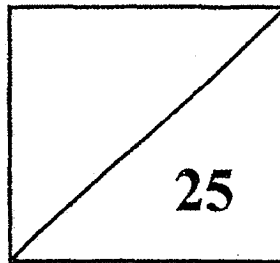
Class : Primary 5 _____

Date : 26 October 2018

Setters : Mdm V Sajini and Mr Susiayanto

SEMESTRAL ASSESSMENT 2 2018 MATHEMATICS

PAPER 1 BOOKLET B



TOTAL TIME FOR PAPER 1 (BOOKLETS A & B): 1 hour
30 questions
45 marks

- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- READ ALL THE INSTRUCTIONS CAREFULLY.
- ANSWER ALL THE QUESTIONS.
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Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated **(5 marks)**

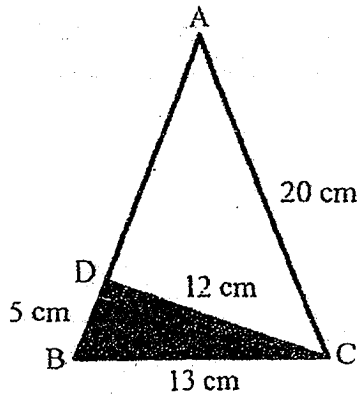
16. What is the remainder when 628 is divided by 9?

Ans: _____

17. Write down the common multiple of 8 and 4 that is nearest to 89.

Ans: _____

18. In Triangle ABC shown below, $AB = AC = 20$ cm, $BC = 13$ cm, $BD = 5$ cm and $CD = 12$ cm. Find the area of the unshaded part.



Ans: _____ cm^2

19. A piece of wire is 22.7 cm long. It is bent to form a square. Find the length of each side of the square, correct to 1 decimal place.

Ans: _____ cm

20. A car uses 9 litres of petrol to travel 126 km. At this rate, how far can the car travel with 15 litres of petrol?

Ans: _____ km

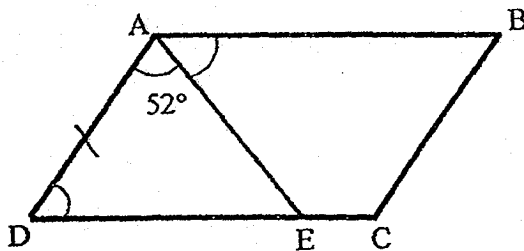
Questions 21 to 30 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

21. (a) Draw a triangle ABC in which $AB = 6$ cm, $\angle ABC = 110^\circ$ and $\angle BAC = 30^\circ$. Label points B and C on the figure.
 (b) Measure and write down the length of BC.



Ans: (b) _____ cm

22. In the figure below, ABCD is a parallelogram and AED is an isosceles triangle. $\angle DAE = 52^\circ$. Find $\angle EAB$.



Ans: _____

23. The ratio of the number of pupils who wear watches to the number of pupils who do not wear watches in a class is 7 : 12. If 14 pupils wear watches, how many pupils are there in the class?

Ans: _____

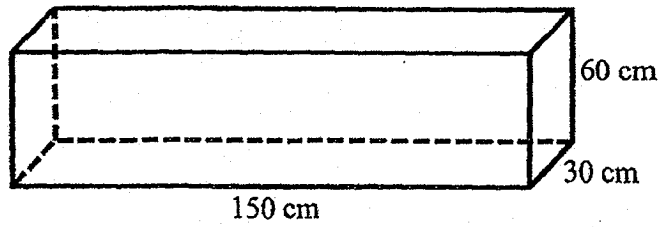
-
24. Ron paid \$14 for a book and 4 pens. The price of each pen was $\frac{5}{8}$ the price of the book. How much did Ron pay for the book?

Ans: \$ _____

25. How many pails of water are needed to fill up the container completely?

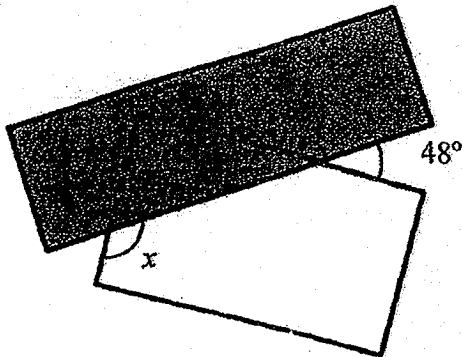


Volume of pail = 2 l



Ans: _____

-
26. Two rectangular pieces of paper are placed overlapping each other as shown below. Find $\angle x$.



Ans: _____

27. The table below shows the number of Primary 5 pupils who take the school bus to school.

| | Pupils who take school bus | Pupils who do not take school bus |
|-------|----------------------------|-----------------------------------|
| Boys | 90 | 103 |
| Girls | 95 | 72 |
| Total | 185 | 175 |

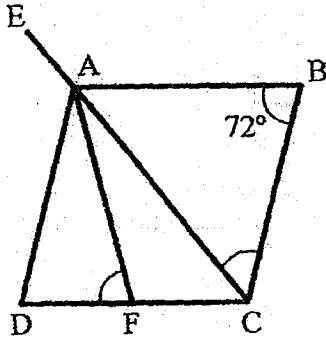
What percentage of the Primary 5 pupils are girls who do not take the school bus?

Ans: _____ %

-
28. A group of 9 children participated in a game that allowed 6 players to play at any one time. The game lasted for 1 hour and each child played for the same amount of time. What was the average playing time for each child in minutes?

Ans: _____ min

29. ABCD is a rhombus. AF and CE are straight lines. $\angle ABC = 72^\circ$. $\angle CAF = \angle FAD$. Find $\angle AFD$.



Ans: _____

-
30. James has some red, blue and green marbles. $\frac{3}{4}$ of the marbles are red. $\frac{2}{5}$ of the remaining marbles are blue. What fraction of the marbles are green?

Ans: _____



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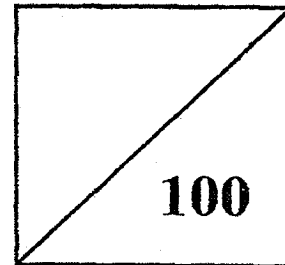
Total Marks
Papers 1 & 2

Level : Primary Five

Class : Primary 5 _____

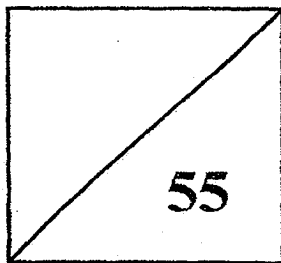
Date : 26 October 2018

Setters : Mdm V Sajini and Mr Susiayanto



SEMESTRAL ASSESSMENT 2 2018 MATHEMATICS

PAPER 2



TOTAL TIME FOR PAPER 2: 1 hour 30 minutes

17 questions

55 marks

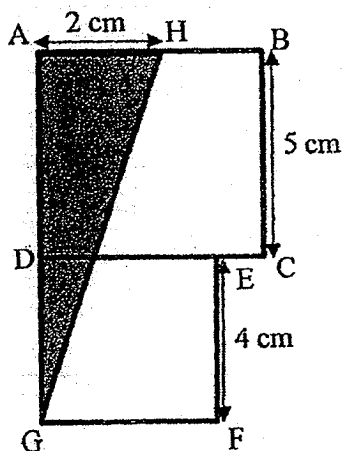
- DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(10 marks)**

1. Edmund is twice as old as Fred. Fred is 5 times as old as Greg. Greg is 3 years old. What is the difference between Edmund's age and Greg's age?

Ans: _____

2. The figure below is made up of 2 squares, ABCD and DEFG. AGH is a triangle. Find the area of the **unshaded** part.



Ans: _____ cm^2

3. The mass of a newborn puppy was 1.45 kg. The mass of the puppy increased by an average of 115 g per month. What was the mass of the puppy one year later?

Ans: _____ kg

4. The actual masses of two wooden boxes, A and B, are decimals with 2 decimal places. When the masses of both boxes are rounded to 1 decimal place, the mass of Box A is 13.6 kg while the mass of Box B is 16.8 kg.

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

| Statement | True | False | Not possible to tell |
|---|------|-------|----------------------|
| The greatest possible difference between the actual masses of these two boxes is 3.29 kg. | | | |
| The average mass of the two wooden boxes can be 15.24 kg. | | | |

5. The table below shows the fare rates of a taxi service.

| Distance travelled | Rate |
|---|--------|
| For the 1 st km or less | \$3 |
| Every 400 m thereafter or less up to 8 km | \$0.23 |
| Every 200 m thereafter or less after 8 km | \$0.20 |
| Airport Surcharge | \$3 |

Mr Tay boarded a taxi at the airport and headed for home which was 10 km away. How much taxi fare did Mr Tay pay?

Ans: \$ _____

For Questions 6 to 17, 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. (45 marks)

6. Mrs Lee baked a cake. She gave $\frac{2}{5}$ of the cake to a friend and kept $\frac{1}{3}$ of it for her children. She ate $\frac{1}{4}$ of the remaining cake. What fraction of the cake was left?
(Give your answer in the simplest form.)

Ans: _____ [3]

7. Ali, Benny and Charles had 255 stamps altogether. Ali gave $\frac{3}{8}$ of his stamps to Benny and $\frac{1}{5}$ of them to Charles. After that, all the three boys had the same number of stamps. How many more stamps did Charles have than Benny at first?

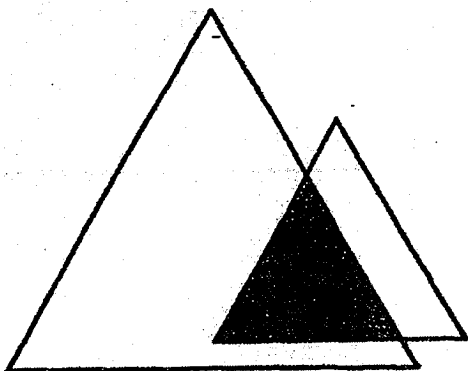
Ans: _____ [3]

8. A rectangular tank measuring 60 cm by 40 cm by 30 cm is filled with water to a depth of 16 cm.
- (a) How much water is in the tank?
 - (b) How much more water is needed to fill up the tank completely?

Ans: (a) _____ [1]

(b) _____ [2]

9. The figure below is made up of 2 triangles of different sizes. The ratio of the unshaded area of the smaller triangle to its shaded area is 5 : 6. The ratio of the unshaded area of the bigger triangle to its shaded area is 7 : 2. Given that the area of the shaded part is 24 cm^2 , what is the unshaded area of the bigger triangle?

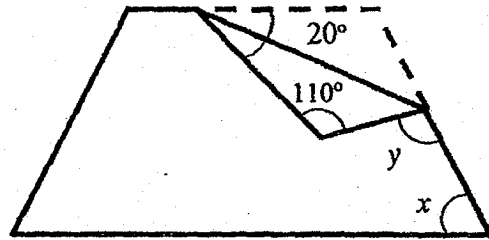


Ans: _____ [3]

10. A piece of paper in the shape of a trapezium is folded on one side as shown below.

(a) Find $\angle x$.

(b) Find $\angle y$.





Ans: (a) _____ [1]

(b) _____ [2]

11.

MOTHERS' DAY PROMOTION

| | |
|---|---|
| <div style="border: 1px solid black; padding: 5px; display: inline-block;">Usual Price \$130</div>  Buy the 1 st pot at a 10% discount |  Buy the 2 nd pot at 80% of the discounted price! |
|---|---|

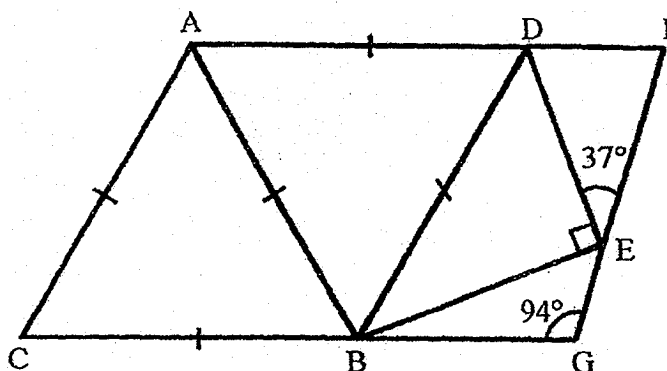
Mrs Raju bought two pots during the abovementioned promotion. How much did she pay for the 2nd pot?

Ans: _____ [3]

12. In the figure below, ABC and ABD are equilateral triangles. BDE is a right-angled triangle. BG, DF and GEF are straight lines.

(a) Find $\angle BEG$

(b) Find $\angle BDE$.



Ans: (a) _____ [2]

(b) _____ [2]

13. James, Peter and Sean shared a sum of money in the ratio 5 : 8 : 12. Sean received \$248 more than Peter.
- (a) How much more money did Sean receive than James?
 - (b) Find the total sum of money the three boys shared.

Ans: (a) _____ [2]

(b) _____ [2]

14. A shopkeeper bought 143.4 kg of flour. He packed the flour into 37 packets of 1.5 kg each. Then he packed the remaining flour into packets of 750 g each. How much flour was left unpacked in the end? (Give your answer in kilogrammes.)

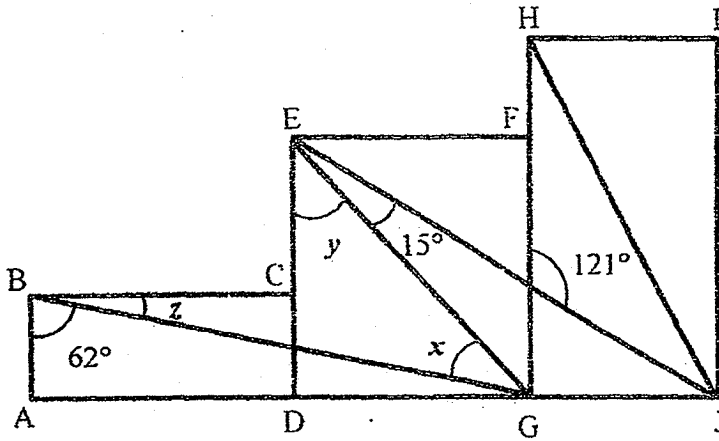
Ans: _____ [4]

15. The price of a watch in Shop A was \$300. The price of a similar watch in Shop B was \$350. A discount of 18% was given by both shops during the Great Singapore Sale. GST was 7% of the discounted price at both shops.
- (a) How much was the GST on the watch sold in Shop A?
 - (b) Jason bought the watch from Shop B. How much did he pay for the watch, inclusive of GST?

Ans: (a) _____ [1]

(b) _____ [4]

16. In the figure below, ABCD, DEFG and GHJI are 3 different rectangles. BG, EG, EJ and HJ are straight lines.
- (a) Find $\angle x$
- (b) Find the sum of $\angle x$, $\angle y$ and $\angle z$.



Ans: (a) _____ [2]

(b) _____ [3]

17. Eight identical rectangular parcels are to be packed into a rectangular crate 160 cm long. Two possible arrangements are shown below. The first arrangement shown in Figure A leaves a 22-cm gap at the top. The second arrangement shown in Figure B leaves a 12-cm gap at the top and another gap at the side. What is the length of the gap at the side in the second arrangement?

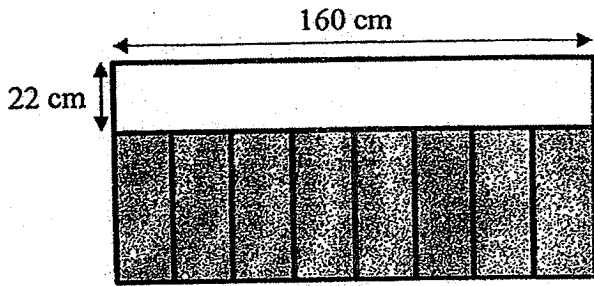


Figure A

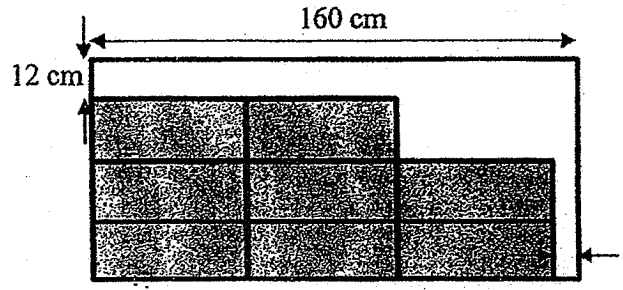
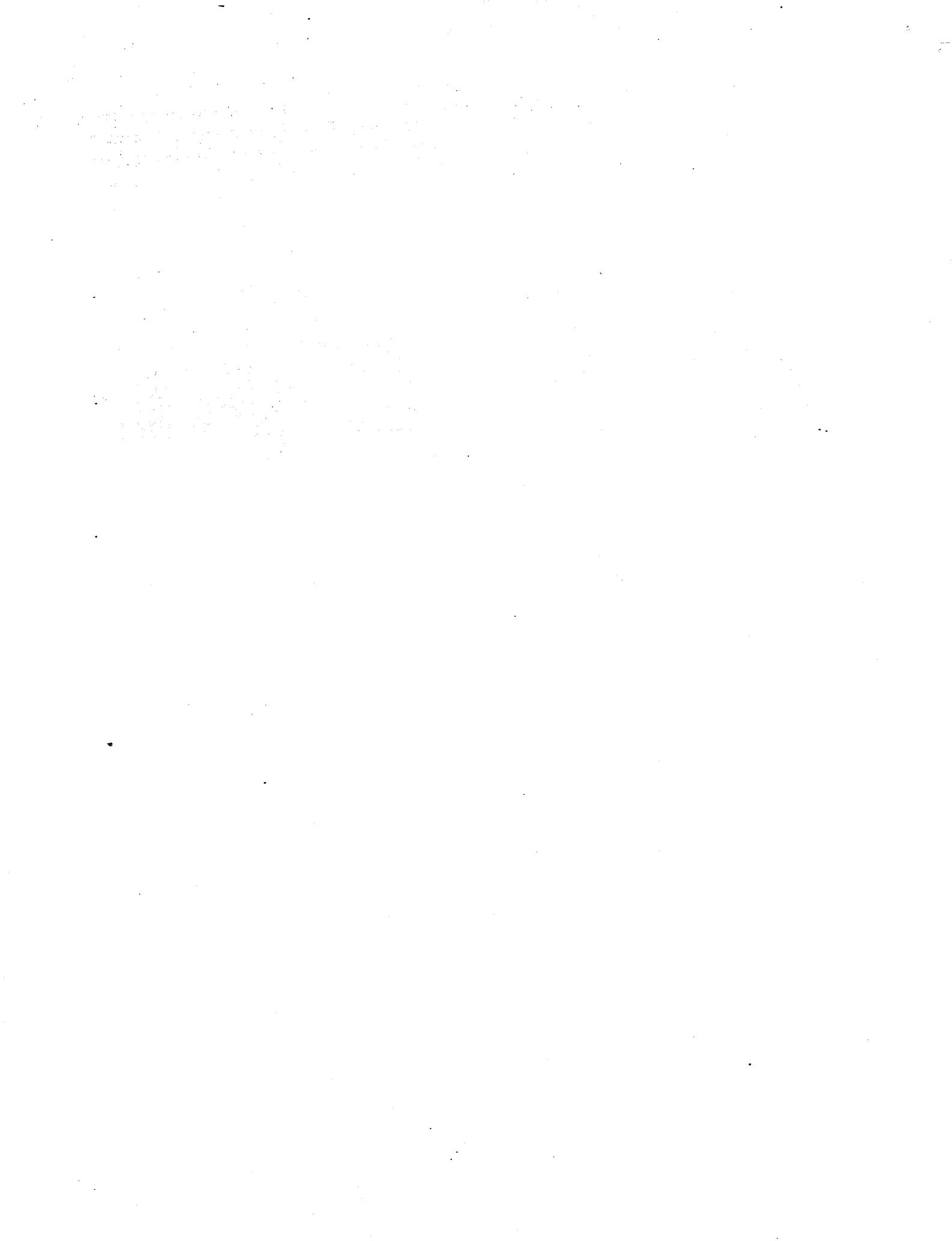


Figure B

Ans : _____ [5]

END OF PAPER



SCHOOL : RULANG PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA2

PAPER 1 BOOKLET A

| Q 1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 |
|-----|----|----|----|----|----|----|----|----|-----|
| 3 | 4 | 4 | 4 | 2 | 2 | 3 | 1 | 3 | 4 |

| Q 11 | Q12 | Q13 | Q14 | Q15 |
|------|-----|-----|-----|-----|
| 2 | 3 | 4 | 2 | 1 |

PAPER 1 BOOKLET B

| | |
|------|---|
| Q16) | 7 |
| Q17) | 88 |
| Q18) | 90 |
| Q19) | 5.7cm |
| Q20) | 210 km |
| Q21) | 4.7 cm |
| Q22) | $180 - 52 = 128$ $128 \div 2 = 64$ $180 - 64 = 116$ $116 - 52 = 64^\circ$ |
| Q23) | $14 \div 7 = 2$ $12 + 7 = 19$ $19 \times 2 = 38$ |
| Q24) | $5 \times 4 = 20$ $20 + 8 = 28$ $14 \div 28 = 0.5$ $0.5 \times 8 = \$4$ |
| Q25) | $150 \times 30 \times 60 = 270000$ $270000 \text{ cm}^3 = 270\text{L}$ $270 \div 2 = 135$ |
| Q26) | $48 + 90 = 138$ $180 - 138 = 42$ $180 - 42 = 138$ |

| | |
|------|--|
| Q27) | $185 + 175 = 360$ $72/360 \times 100/1 = 360/18 = 20\%$ |
| Q28) | 40 min |
| Q29) | 71° |
| Q30) | $3/5 \times 1/4 = 3/20$ |

PAPER 2

| | |
|-----|--|
| Q1) | $3 \times 5 = 15$ $15 \times 2 = 30$ $30 - 3 = 27$ |
| Q2) | $5 + 4 = 9$ $1/2 \times 2 \times 9 = 9$ $5 \times 5 = 25$ $4 \times 4 = 16$ $25 + 16 = 41$ $41 - 9 = 32 \text{ cm}^2$ |
| Q3) | $115 \times 2 = 1380$ $1380\text{g} = 1.38 \text{ kg}$ $1.38 + 1.45 = 2.83$ |
| Q4) | True True |
| Q5) | 1st km \rightarrow \$3 Next 8km \rightarrow $\$0.23 \times 20 = \4.60 Next 1 km \rightarrow $\$0.20 \times 5 = \1 Airport charge \rightarrow \$3 $3 + 3 + 4.60 + 1 = \$11.60$ |
| Q6) | $2/5 \times 3 = 6/15$ $1/3 \times 5 = 5/15$ $6/15 + 5/15 = 11/15$ $1 - 11/15 = 4/15$ $1 - 1/4 = 3/4$ $3/4 \times 4/15 = 1/5$ |
| Q7) | $3/8 \times 5 = 15/40$ $1/5 \times 8 = 8/40$ $40 - 15 - 8 = 17$ $17 \times 3 = 51$ $255 \div 51 = 5$ $17 - 8 = 9$ $9 \times 5 = 45$ (Charles) $17 - 15 = 2$ $2 \times 5 = 10$ (Benny) $4 - 10 = 35$ |
| Q8) | a) $60 \times 40 \times 16 = 38400\text{cm}^3$ b) $30 - 16 = 14$ |

| | |
|---|---|
| $60 \times 40 \times 14 = 33600\text{cm}^3$ | |
| Q9) Smaller triangle | Bigger triangle |
| <u>Unshaded</u> <u>shaded</u> | Unshaded shaded |
| 5 : 6 | 7 : 2 |
| $24 \div 2 = 12$ $7 \times 12 = 84\text{cm}^2$ | |
| Q10) | a) $180 - 110 = 70^\circ$ b) $110 + 20 = 130$ $180 - 130 = 50$ $50 \times 2 = 100$ $180 - 100 = 80^\circ$ |
| Q11) | $100\% - 10\% = 90\%$ $90\% \times 130 = 117$ $80\% \times 117 = \$93.6$ |
| Q12) | a) $37 + 90 = 127$ $180 - 127 = 53^\circ$ b) $180 \div 3 = 60$ $60 \times 2 = 120$ $180 - 120 = 60$ $53 + 94 = 147$ $180 - 147 = 33$ $60 - 33 = 27$ $27 + 90 = 117$ $180 - 117 = 63^\circ$ |
| Q13) | a) $12 - 8 = 4$ $248 \div 4 = 62$ $12 - 5 = 7$ $62 \times 7 = \$434$ b) $5 + 8 + 12 = 25$ $25 \times 62 = \$1550$ |
| Q14) | $1.5 \times 37 = 55.5$ $143.4 = 55.5 = 87.9$ $750 \text{ g} = 0.75\text{kg}$ $87.9 \div 0.75 = 117 \text{ R } 0.15$ |
| Q15) | a) $100\% - 18\% = 82\%$ $82\% \times 300 = 246$ $7\% \times 246 = \$17.22$ b) $82\% \times 350 = 287$ $7\% \times 287 = 20.09$ $287 + 20.09 = \$307.09$ |
| Q16) | a) $121 + 15 = 136$ |

$$180 - 136 = 44$$

$$90 + 62 = 152$$

$$180 - 152 = 28$$

$$28 + 44 = 72$$

$$90 - 72 = 18^\circ$$

$$\text{b) } 180 - 121 = 59$$

$$90 + 59 = 149$$

$$180 - 149 = 31$$

$$90 - 31 = 59$$

$$90 - 62 = 28$$

$$28 + 44 + 18 = 90^\circ$$

$$\text{Q17) } 160 \div 8 = 20$$

$$20 \times 3 = 60$$

$$60 + 12 = 72$$

$$72 - 22 = 50$$

$$50 \times 3 = 150$$

$$160 - 150 = 10\text{cm}$$