

RIVER VALLEY PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
2017
MATHEMATICS
PRIMARY FIVE

Name : _____ ()

Class : Primary 5 (_____)

Date : 27 October 2017

Duration : 60 min (Total time for Booklets A and B)

PAPER 1

(BOOKLET A)

INSTRUCTIONSTO CANDIDATES

1. Write your Name, Register No. and Class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers on the Optical Answer Sheet (OAS) provided.
6. 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 them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1. In 3 412 568, which digit is in the hundred thousands place?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

2. $96 \div 8 - 5 \times 2 =$ _____.

- (1) 64
- (2) 2
- (3) 18
- (4) 14

3. What is the value of 3 hundreds, 4 tenths and 8 thousandths?

- (1) 300.408
- (2) 300.480
- (3) 348.080
- (4) 340.008

4. 10,008 g = _____ kg.

- (1) 1.008
- (2) 10.008
- (3) 100.08
- (4) 1000.8

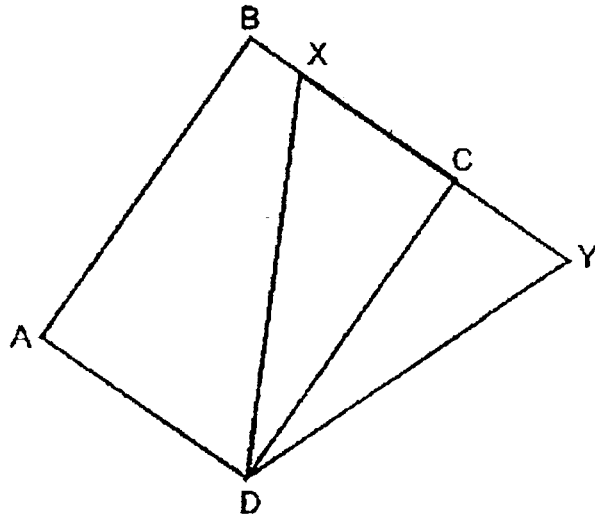
5. What is the product of $\frac{3}{8}$ and $\frac{4}{9}$?

- (1) $\frac{27}{32}$
- (2) $\frac{7}{17}$
- (3) $\frac{1}{6}$
- (4) $\frac{1}{5}$

6. The sum of 4 numbers is 1095. One of the numbers is 165. What is the average of the other 3 numbers?

- (1) 252
- (2) 310
- (3) 365
- (4) 420

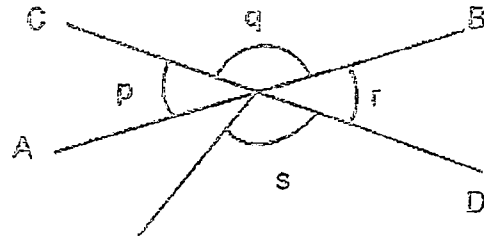
7. In the figure below, ABCD is a rectangle and DXY is a triangle. BXCY is a straight line. Given that the base of the triangle is XY, what is the height of triangle DXY?



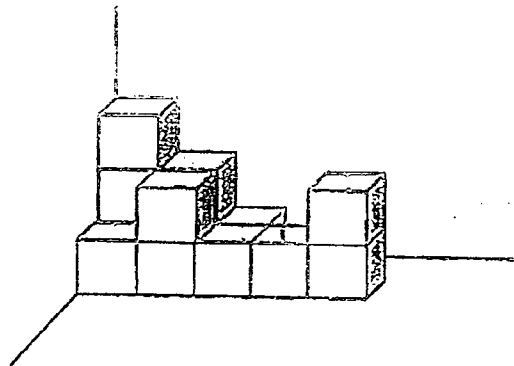
- (1) AB
(2) AD
(3) DY
(4) DX
8. 62 children signed up for an enrichment workshop. 34 of them were boys. What was the ratio of the number of girls to the total number of children who signed up for the workshop?

- (1) 14 : 17
(2) 14 : 31
(3) 17 : 31
(4) 31 : 14

9. In the figure below, AB and CD are straight lines. Which one of the following statements is true?



- (1) $\angle q = \angle s$
 - (2) $\angle p = \angle r$
 - (3) $\angle p = \angle r + \angle s$
 - (4) $\angle q = \angle r + \angle s$
10. The figure below is made up of similar unit cubes. How many unit cubes are used to build the solid in the figure?

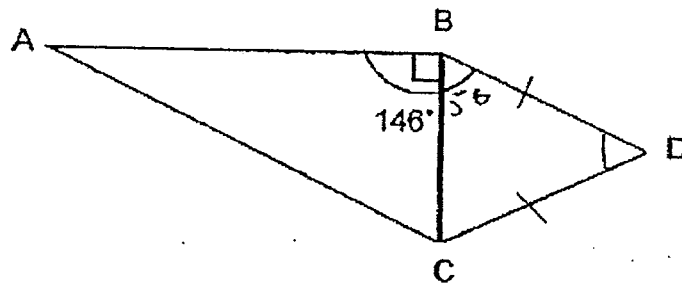


- (1) 11
- (2) 12
- (3) 13
- (4) 14

11. Susan had some money. She spent $\frac{1}{5}$ of her money on bills and $\frac{5}{8}$ of the remainder on meals. Then she saved the rest of her money. What fraction of the money did Susan save?

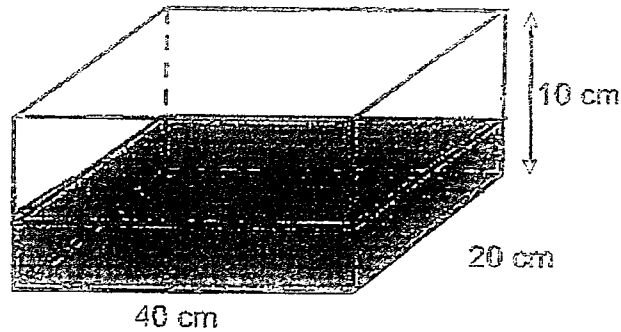
- (1) $\frac{3}{10}$
 (2) $\frac{7}{10}$
 (3) $\frac{7}{40}$
 (4) $\frac{33}{40}$

12. The figure below, not drawn to scale, shows a right-angled triangle ABC, and an isosceles triangle BCD. Given that $\angle ABD = 146^\circ$, find $\angle BDC$.



- (1) 56°
 (2) 68°
 (3) 112°
 (4) 124°

13. A rectangular tank measuring 40 cm by 20 cm by 10 cm is $\frac{2}{5}$ filled with water. How much more water is needed to fill the tank to 90% of its capacity?



- (1) 3 200 cm³
 (2) 4 000 cm³
 (3) 4 800 cm³
 (4) 7 200 cm³
14. Mrs Tan received 3 cupcakes free for every 17 cupcakes that she paid for. Mrs Tan got a total of 190 cupcakes for a party. What was the least number of cupcakes that Mrs Tan paid for?
- (1) 37
 (2) 180
 (3) 153
 (4) 163

15. The cost of a file is twice the cost of 2 pens.

What is the ratio of the cost of a file to the cost of a pen?

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

- End of Booklet A -

RIVER VALLEY PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
2017
MATHEMATICS
PRIMARY FIVE

Name : _____ ()

Class : Primary 5 ()

Date : 27 October 2017

Duration : 60 min (Total time for Booklets A and B)

PAPER 1
(BOOKLET B)

INSTRUCTIONSTO CANDIDATES

1. Write your Name, Register No. and Class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are not allowed to use a calculator.

SUMMARY OF MARKS :

			Questions	Marks Awarded	Maximum Marks
Paper 1	Booklet A	MCQ	1 – 15		20
	Booklet B	SAQ	16 – 30		25
Paper 2		SAQ	1 – 5		10
		LAQ	6 - 17		45
Total					100

Parent's Signature :

Questions 16 to 20 carry 1 mark each. Questions 21 to 30 carry 2 marks each .
Write your answers in the spaces provided. For questions which require units,
give your answers in the units stated. (25 marks)

16. Write four million, three hundred and twenty thousand and seventy in numerals.

Answer: _____

17. Find the value of $2 \times (4 + 108 \div 9) - 3$.

Answer: _____

18. What is the remainder when 16 030 is divided by 30?

Answer: _____

19. Find the value of $\frac{6}{7} \times 20$.
Give your answer as a mixed number in its simplest form.

Answer: _____

20. Ravi had $3\frac{3}{5}$ l of apple juice. She drank $\frac{1}{3}$ l.
How much apple juice had she left?

Answer: _____

21. The ratio of the number of boys to the number of girls was 8 : 11.
There were 27 more girls than boys.
How many children were there altogether?

Answer: _____

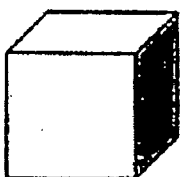
22. Of his monthly salary, Elvis spent \$400 on food and $\frac{1}{3}$ of the remaining salary on transport. He then had $\frac{1}{2}$ of his salary left. What percentage of his monthly salary was spent on food?

Answer: _____ %

23. Mr Tan packed 5 identical balls into a basket. The total mass of the basket and the 5 balls was 14.9 kg. If the total mass of the 5 balls was 1.1 kg heavier than the mass of the basket, find the mass of each ball.

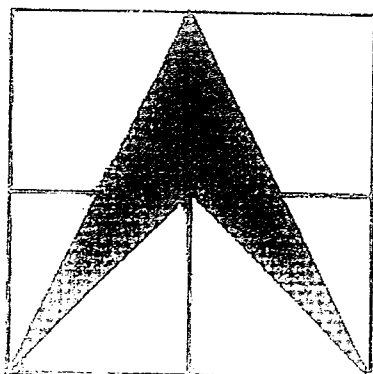
Answer: _____ kg

24. What is the volume of the cube if the area of one of its faces is 64 cm²?



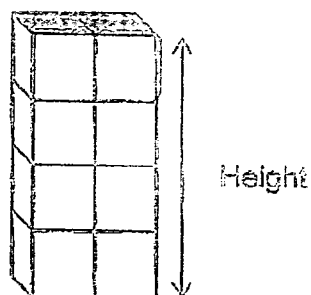
Answer: _____ cm³

25. The figure below, not drawn to scale, is made up of 4 squares of sides 20 cm each. Find the total area of the shaded parts.



Answer: _____ cm^2

26. The figure below shows a cuboid formed by putting 8 identical cubes together. The volume of the cuboid is 512 cm^3 . Find the height of the cuboid.



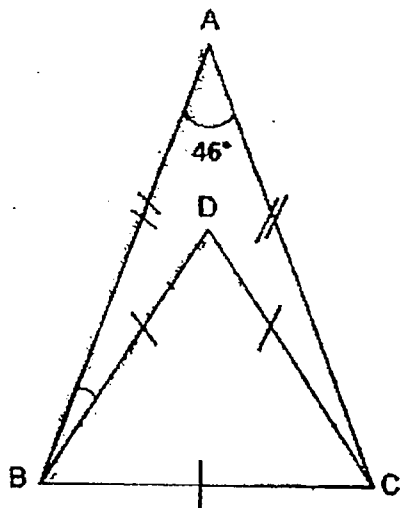
Answer : _____ cm

27. The table below shows the parking charges at a carpark. Mr Lim parked his car from 11.30 a.m. to 6 p.m. How much did Mr Lim pay altogether?

Duration	Parking Charges
8 a.m. to 11.59 a.m.	\$0.60 per hour and part thereof
12 p.m. to 5 p.m.	\$1.10 per hour and part thereof
5.01 p.m. onwards	\$2.50 per entry

Answer : \$ _____

28. The figure below is not drawn to scale. ABC is an isosceles triangle and $AB = AC$. DBC is an equilateral triangle. Find $\angle ABD$.

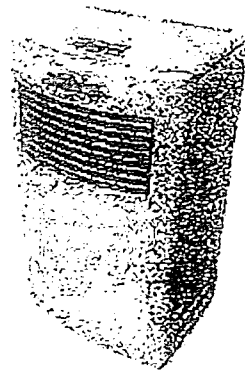


Answer: _____

28. Yan Ning had $\frac{5}{9}$ as many stickers as Zack at first. After Zack gave 48 stickers to Yan Ning, they had the same number of stickers. How many stickers did Yan Ning have at first?

Answer: _____

30. James paid \$400 for an air purifier after a discount of 20%. What was the price of the air purifier before the discount?



Answer: \$ _____

~ End of Booklet B ~

RIVER VALLEY PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2
2017
MATHEMATICS
PRIMARY FIVE

Name : _____ ()

Class : Primary 5 (_____)

Date : 27 October 2017

Duration : 1 hour 30 minutes

PAPER 2

INSTRUCTIONS TO CANDIDATES

1. Write your Name, Register No. and Class in the space above.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are allowed to use a calculator.

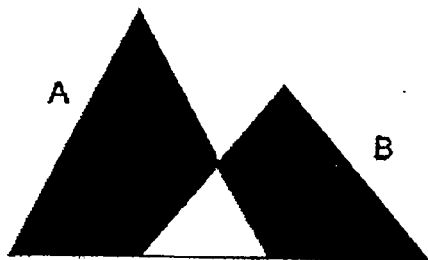
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. Winnie had 144 more marbles than Yi Zheng at first. Then Yi Zheng gave 48 marbles to Winnie. After this, Winnie had 4 times as many marbles as Yi Zheng. How many marbles did Yi Zheng have at first?

Do not write
in this space

Answer : _____

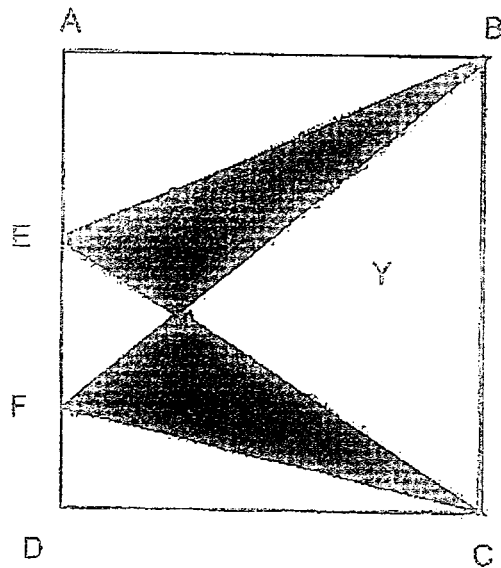
2. The figure is made up of 2 triangles, A and B, overlapping each other. $\frac{7}{10}$ of A is shaded and $\frac{5}{8}$ of B is shaded. What fraction of the figure is shaded? Give your answer in its simplest form.



Answer : _____

3. The figure below is made up of rectangle ABCD and 2 overlapping triangles BEC and BFC. The total area of the shaded parts is 150 cm^2 . If the area of the rectangle ABCD is 600 cm^2 , find the area of the unshaded part Y.

Do not write
in this space



Answer : _____ cm^2



4. The table below shows the number of sweets received by each child at a party. What is the average number of sweets received by each child?

Do not write
in this space

Number of sweets each child received	Number of children
2	30
3	35
4	20
5	15

Answer : _____

5. (a) Draw a parallelogram WXYZ in which $WX = 5\text{ cm}$, $WZ = 7\text{ cm}$ and $\angle WXY = 125^\circ$. The line WX has been drawn. (1m)
- (b) Measure the length of WY.

W X
5 cm

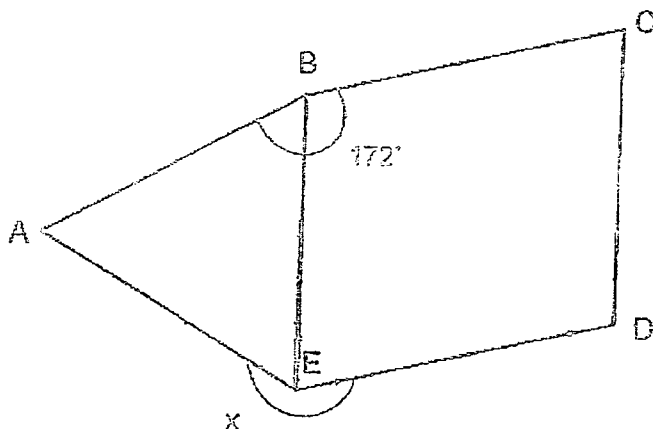
Answer : (b) _____ (1m)

For questions 6 to 10, show your working clearly 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)

6. The figure below is not drawn to scale. ABE is an equilateral triangle and BCDE is a parallelogram. $\angle ABC = 172^\circ$. Find $\angle x$.

Do not write
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Answer : _____ (3m)



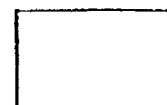
7. A seafood restaurant's menu is shown below :

Do not write
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FISH	\$9.60 per 200 g
PRAWN	\$8.20 per 100 g
LOBSTER	\$18.90 per 100 g
CRAB	\$55.00 per 1 kg

Mr Lee ordered 1 kg of fish, 600 g of prawns and 1.6 kg of crabs from the restaurant. How much did Mr Lee pay altogether for the seafood?

Answer : _____ (3m)



8. The table below shows the overseas postage rate for parcels.

Do not write
in this space

Destination Group	Postage rate	
	First 2 kg	Additional 500g or part thereof
Group A Indonesia, Thailand	\$13	\$4
Group B Hong Kong, Korea	\$18	\$6

Mr Lim posted 2 parcels overseas. One parcel with a mass of 5 kg was sent to Thailand. The other parcel of mass 3.3 kg was sent to Korea. How much money did he pay for the total postage?

Answer : _____ (3m)



9. Fandi spends $\frac{2}{5}$ of his allowance and saves the rest of his allowance each week. Gareth spends $\frac{5}{7}$ of his allowance and saves the rest of his allowance. Fandi and Gareth save the same amount of money each week. If Gareth receives \$231 more than Fandi, find their total allowance each week.

Do not write
in this space

Answer : _____ (3m)

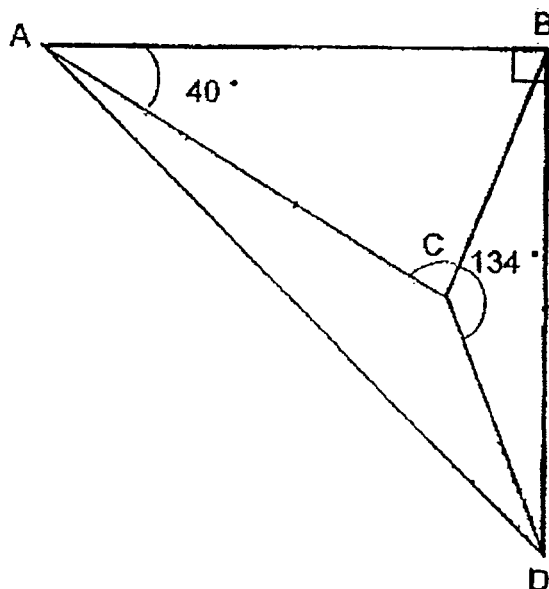
10. Jane was given an exact amount of money to buy either 8 identical bags or 12 identical dresses. Each bag cost \$15.30 more than each dress. How much was the sum of money Jane was given?

Do not write
in this space

Answer : _____ (3m)

11. In the diagram shown below, not drawn to scale, ABD is a right-angled triangle and $AB = BD = AC$. $\angle BAC = 40^\circ$ and $\angle BCD = 134^\circ$. Find $\angle ADC$.

Do not write
in this space



Answer : _____ (3m)



12. The ink-splattered table shows the results of the shuttle run timing by the 4 students at a school's sports day carnival.

Do not write
in this space

Shuttle Run Timing	
Red House	11.73 seconds
Blue House	10.32 seconds
Yellow House	12. [ink-splattered]
Green House	11. [ink-splattered]
Average 11.50 seconds	

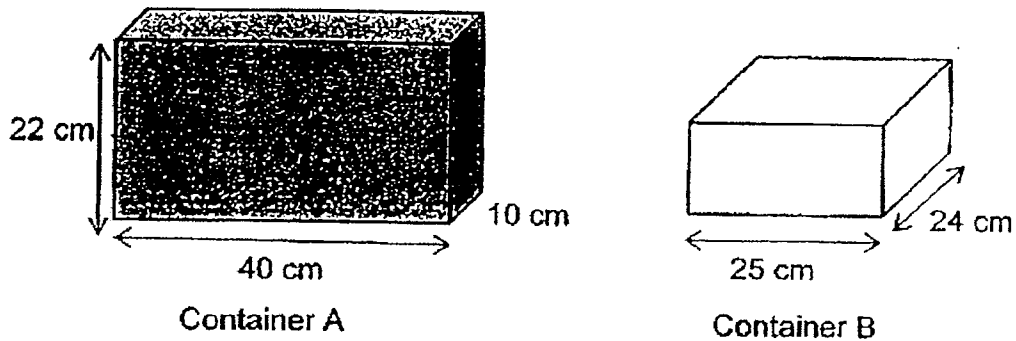
- (a) What could be the smallest possible difference in the timings ran by the student from Yellow House and that of the student from Green House?
- (b) What could be the largest possible difference in the timings ran by the student from Yellow House and that of the student from Green House?

Answer : (a) _____ (3m)

(b) _____ (1m)

13. Container A, measuring 40 cm by 10 cm by 22 cm, is completely filled with water. Container B is an empty container with a base measuring 25 cm by 24 cm. Water is poured from Container A into Container B without spilling. The height of the water level in the two containers are now the same. What is the height of the water level in Container B?

Do not write
in this space



Answer : _____ (4m)



14. William, Xi Ning and Yasmin each donated some money to charity. The amount of money donated by William was $\frac{1}{3}$ of the total amount of money donated by Xi Ning and Yasmin. The amount of money donated by Xi Ning was $\frac{1}{4}$ of the total amount of money donated by William and Yasmin. William donated \$182. How much did Xi Ning donate?

Do not write
in this space

Answer : _____ (4m)

15. Sally's stationery shop was having its 1st year anniversary promotion for pens and notebooks at the prices shown below.

Do not write
in this space

Sally's Stationery Shop 1 st Anniversary Promotion	
	
5 pens for \$8	3 notebooks for \$6

Mrs Lee spent an equal amount of money on the pens and notebooks for her company supplies. She bought 18 more pens than notebooks. How many pens and notebooks did Mrs Lee buy altogether?

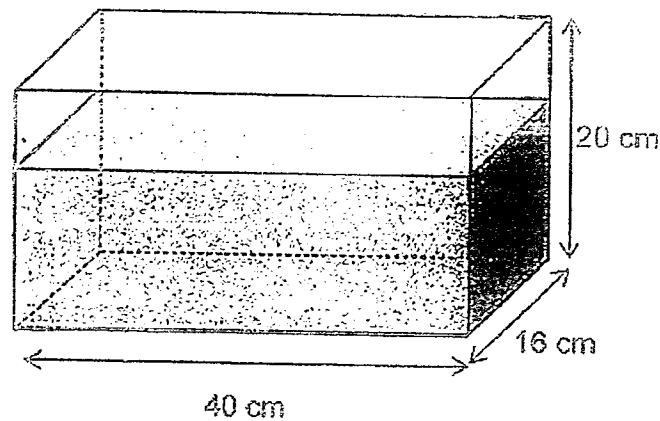
Answer : _____ (5m)



16. A rectangular tank measuring 40 cm by 16 cm by 20 cm was filled with 9.5 litres of water as shown in the Figure below.
Mr Sheng had 10 identical jugs containing 0.25 litres of water each. He poured all the water from the 10 jugs into the tank.

Do not write
in this space

- (a) How much water was poured from the 10 jugs into the tank?
(Give your answer in millilitres)
- (b) What was the final height of the water level in the tank?



Answer : (a) _____ (2m)

(b) _____ (3m)

17. Sandra decided to start a savings plan. She put 2 coins in her piggy bank every day. Each coin was either a 20-cent coin or a 50-cent coin. Her mother also put in a \$1 coin in her piggy bank every 5 days. The total value of the coins after 210 days was \$225.

Do not write
in this space

- (a) How many coins were there altogether?
(b) How many of the coins were 50-cent coins?

Answer : (a) _____ (2m)

(b) _____ (3m)

- End of Paper 2 -

2017 EXAM PAPER

SCHOOL : RIVER VALLEY PRIMARY SCHOOL
 LEVEL : PRIMARY 5
 SUBJECT : MATH
 TERM : SA2

CONTACT :

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	2	1	2	2	2	1	2	2	3
Q 11	Q12	Q13	Q14	Q15					
1	2	2	2	4					

PAPER 1 BOOKLET B

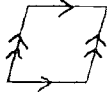
Q16)	4320070	Q24)	512
Q17)	29	Q25)	400
Q18)	10	Q26)	16
Q19)	11 $\frac{3}{7}$	Q27)	8.60
Q20)	3 $\frac{4}{15}$	Q28)	7
Q21)	171	Q29)	160
Q22)	25	Q30)	500
Q23)	1.6		

PAPER 2

Q1)	$144 + 48 + 48 = 240$ $240 \div 3 = 80$ $80 + 48 = 128$
Q2)	$\frac{3}{8}$ of B = $\frac{3}{10}$ of A $\frac{3}{10} \div 3 = \frac{1}{10}$ $\frac{1}{10} \times 8 = \frac{8}{10}$ $7 + 8 = 15$ $15 - 3 = 12$ $\frac{12}{15} = \frac{4}{5}$

Q3) $600 - 150 = 450$
 $450 \div 2 = 225$

4) $30 \times 2 = 60$
 $35 \times 3 = 105$
 $20 \times 4 = 80$
 $15 \times 5 = 75$
 $60 + 105 + 80 + 75 = 320$
 $30 + 35 + 20 + 15 = 100$
 $320 \div 100 = 3.2$

Q5) a) 
b) **10.8 cm**

Q6) $172 - 60 = 112$
 $180 - 112 = 68$
 $360 - 68 - 60 = 232$ **Ans: 232°**

Q7) $8.20 \times 6 = 49.20$
 $136 + 49.20 = 185.20$ **Ans: \$185.20**

Q8) $5 - 2 = 3$
 $3 \div 0.5 = 6$
 $6 \times 4 = 24$
 $24 + 13 = 37$
 $3.3 - 2 = 1.3$
 $1.3 \div 0.5 = 2 \text{ R } 0.3$
 $6 \times 3 = 18$
 $18 \times 2 = 36$
 $36 + 37 = 73$ **Ans: \$73**

Q9) $3/5$ of Fandi = $2/7$ of Gareth
 $2/7 \div 3 = 2/21$
 $1/5$ of Fandi = $2/21$ of Gareth
 $2/21 \times 5 = 10/21$
 $21 - 10 = 11$
 $231 \div 11 = 21$
 $10 + 21 = 31$
 $31 \times 21 = 651$ **Ans: \$651**

Q10) $15.30 \times 8 = 122.40$
 $122.40 \div 4 = 30.60$
 $30.60 \times 12 = 367.20$
Ans: 367.20

Q11) $180 - 90 = 90$
 $90 \div 2 = 45$
 $45 - 40 = 5$
 $(180 - 40) \div 2 = 70$
 $360 - 70 - 134 = 156$
 $180 - 156 - 5 = 19$
Ans: 19°

Q12) (a) $11.50 \times 4 = 46$
 $46 - 11.73 - 10.32 = 23.95$
 $23.95 - 12 = 11.95$
 $12 - 11.95 = 0.05$ **Ans: 0.05 seconds**
 (b) $23.95 - 11 = 12.95$
 $12.95 - 11 = 0.95$ **Ans: 0.95 seconds**

Q13) $22 \times 40 \times 10 = 8800$
 $40 \times 10 = 400$
 $25 \times 24 = 600$
 $600 \div 400 = 1000$
 $8800 \div 1000 = 8.8$ **Ans: 8.8 cm**

Q14) $182 \div 5 = 36.40$
 $36.40 \times 4 = 145.60$
Ans: \$145.60

Q15) $48 \div 8 = 6$
 $6 \times 5 = 30$
 $48 \div 6 = 8$
 $8 \times 3 = 24$
 $30 - 24 = 6$
 $18 \div 6 = 3$
 $30 \div 24 = 54$
 $54 \times 3 = 162$

Q16) (a) $0.25 \times 10 = 2.5$
 $2.5 \text{ litre} = 2500 \text{ millilitres}$
 (b) $9.5 + 2.5 = 12$
 $12 \text{ litres} = 12\,000 \text{ millilitres}$
 $12\,000 \div 40 \div 16 = 18.75$
Ans: 18.75 cm

Q17) (a) $210 \div 5 = 42$
 $2 \times 210 \div 42 = 462$
 (b) $42 \times 1 = 42$
 $225 - 42 = 183$
 Assume all \$ 0.20, $0.20 \times 420 = 84$
 $183 - 84 = 99$
 $99 \div 0.3 = 330$