

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 What is two million, three hundred and fifty thousand and sixty-three in numerals?
- (1) 2 035 063
 - (2) 2 053 063
 - (3) 2 305 063
 - (4) 2 350 063
- 2 What is the difference between the values of digit 6 in 396 999 and 760 351?
- (1) 53 000
 - (2) 53 352
 - (3) 54 000
 - (4) 66 000
- 3 Find the value of 286×40 .
- (1) 1072
 - (2) 1144
 - (3) 10 720
 - (4) 11 440
- 4 Sabrina paid \$10 for a book after a 20% discount. What was the usual price of the book?
- (1) \$12.00
 - (2) \$2.00
 - (3) \$12.50
 - (4) \$50.00

5 What is the missing number in the box?

$$2 : 3 = \boxed{?} : 12$$

- (1) 8
- (2) 7
- (3) 6
- (4) 4

6 Given that  +  +  +  = 60

$$\boxed{} + \boxed{} + \text{triangle} + \text{heart} = 40$$

What is the value of  +  +  ?

- (1) 20
- (2) 30
- (3) 35
- (4) 45

7 Find the missing number in the box.

$$24 - (11 + 5) \div 4 \times 2 = \boxed{?}$$

- (1) 1
- (2) 16
- (3) 22
- (4) 4

8 At a restaurant, every 2nd customer is given a free drink and every 5th customer is given a free sweet while every 9th customer is given a free chocolate bar. Lynn received all the three gifts on her first visit. Given that she was among the first 100 customers, what was Lynn's queue number?

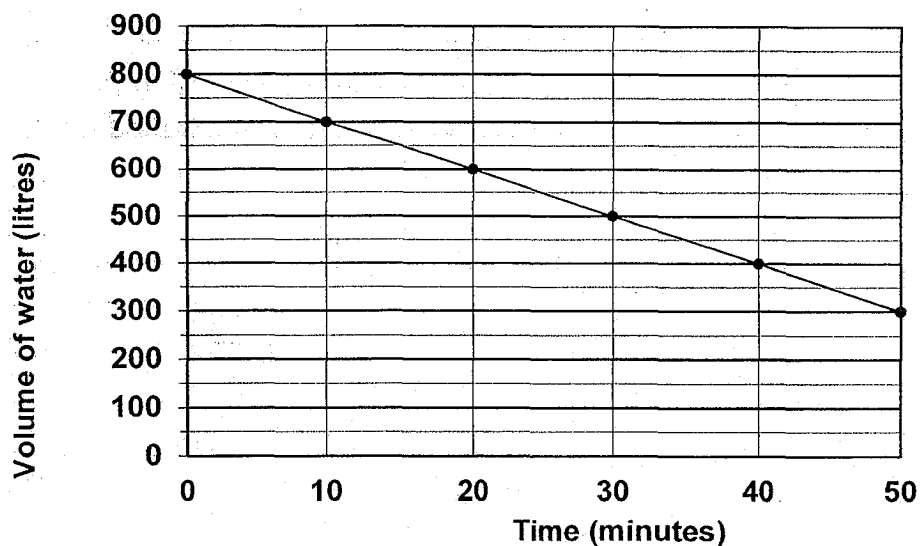
- (1) 10
- (2) 45
- (3) 55
- (4) 90

- 9 The table below shows the rates for renting a bicycle from a shop.

First 2 hours	\$7.50
After the second hour	\$4 per $\frac{1}{2}$ hour or part thereof

Grace rented a bicycle from 0930 to 1320.
How much did Grace have to pay?

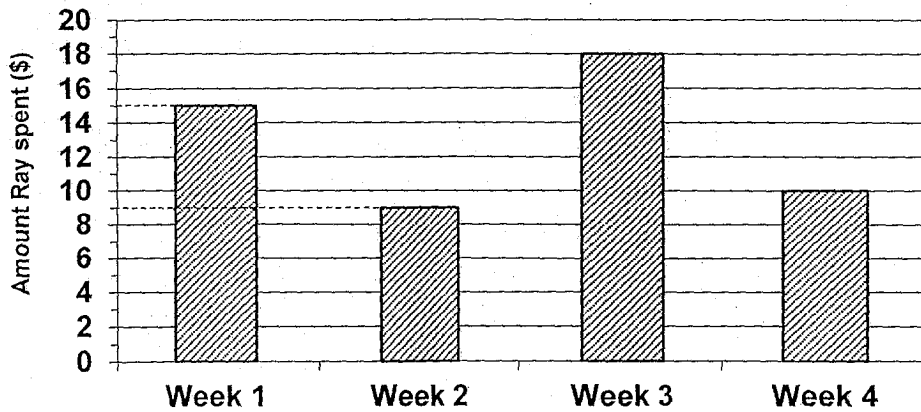
- (1) \$11.50
(2) \$15.50
(3) \$23.50
(4) \$31.00
- 10 At first, a tank was filled completely with water. A pump was turned on for some time to drain water from the tank. The line graph below shows the volume of water in the tank over 50 minutes.



What was the total amount of time taken for the water to be drained out of the tank completely?

- (1) 1h 20 min
(2) 1h 25 min
(3) 1h 30 min
(4) 1h 35 min

- 11 Gabriel bought a mobile phone at a discount of 40%. The usual price of the mobile phone was \$640. How much was the discount?
- (1) \$6.40
 - (2) \$25.60
 - (3) \$256.00
 - (4) \$384.00
- 12 Kirish was given 0.18 l of cough syrup to relieve his cough by the doctor. He had to take 10 ml of it three times a day. How many days would he take to finish the cough mixture?
- (1) 6
 - (2) 8
 - (3) 9
 - (4) 18
- 13 Ray received \$20 as his pocket money each week. He would save the amount of money that he did not spend weekly. The bar graph below shows the amount of money he spent each week over a period of four weeks.



Find the total amount of money Ray saved from Week 1 to Week 4.

- (1) \$28
- (2) \$52
- (3) \$56
- (4) \$80

14 Find the value of $614 \div 3$. Correct your answer to 2 decimal places.

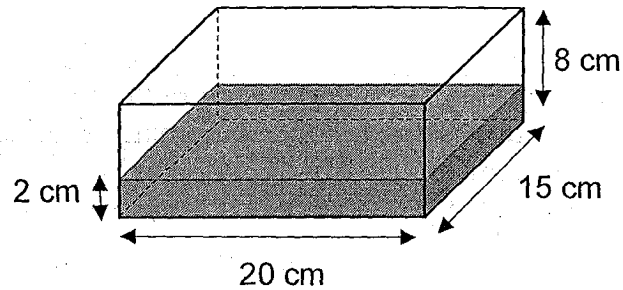
- (1) 24.66
- (2) 24.67
- (3) 204.66
- (4) 204.67

15 Ali cut 9.25 m of string from a ball of string. Sam cut a length of 3.4 m longer than Ali from the same ball of string. If the remaining length of string in the ball was twice the total length cut by Ali and Sam, what was the original length of the string in the ball before it was cut?

- (1) 12.65 m
- (2) 21.9 m
- (3) 43.8 m
- (4) 65.7 m

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 Find the volume of water in the container.



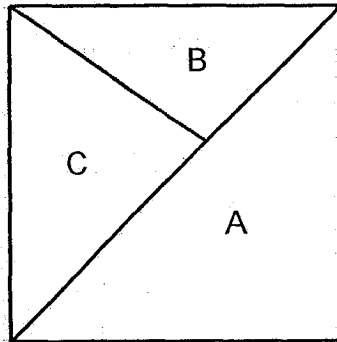
Ans: _____ cm³

- 17 What is the missing number in the box?

$$4.976 = 4 + 9 \times 0.1 + 7 \times 0.01 + \boxed{?}$$

Ans: _____

- 18 The figure below shows a square that is divided into 3 parts A, B and C. The area of part B is $\frac{2}{3}$ the area of part C. What percentage of the square is part B?



Ans: _____ %

- 19 The table shows the postage charges to send a parcel between two countries. What is the postage charge for sending a parcel that has a mass of 6.8 kg?

Mass Up To	Postage Charge
5 kg	\$50
per additional step of 1 kg or part thereof	\$5

Ans: \$ _____

- 20 0.6 of Kelvin's cookies is equal to 0.9 of Billy's cookies. What is the ratio of the number of Kelvin's cookies to the number of Billy's cookies?

Ans: _____

Questions 21 to 30 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. (20 marks)

- 21 A cuboid is made up of 4 identical cubes, each of edge 2 cm.
What is the volume of the cuboid?

Ans: _____ cm^3

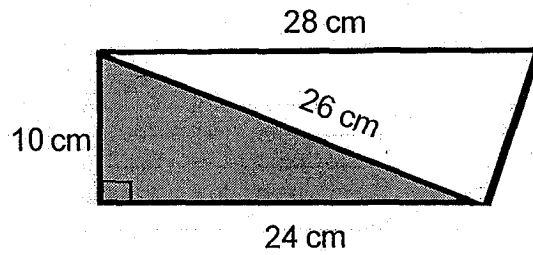
- 22 What is the value of $7 + 0.5 + 3 \text{ hundredths} + 0.013$?

Ans: _____

- 23 Rita bought 0.9 kg of rambutans. The rambutans were sold at \$0.50 per 100 g. How much did she pay?

Ans: \$ _____

- 24 Find the area of the shaded part in the figure below.



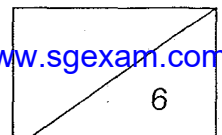
Ans: _____ cm²

- 25 Daphne has 24 green and blue beads. The number of green beads is $\frac{1}{3}$ the number of blue beads. How many blue beads does Daphne have?

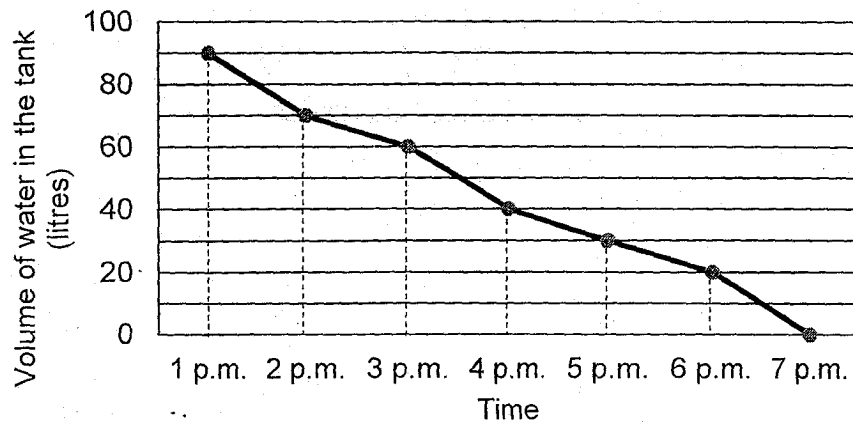
Ans: _____

- 26 Gerlynn took 1 hour 24 minutes to reach home from school by bus. If she had taken a taxi, she could reach home in a quarter of the time taken by the bus. How many minutes would the taxi ride take?

Ans: _____ min



- 27 A tank was completely filled with water for a water rationing exercise from 1 p.m. to 7 p.m. The line graph shows the volume of water in the tank from 1 p.m. to 7 p.m.



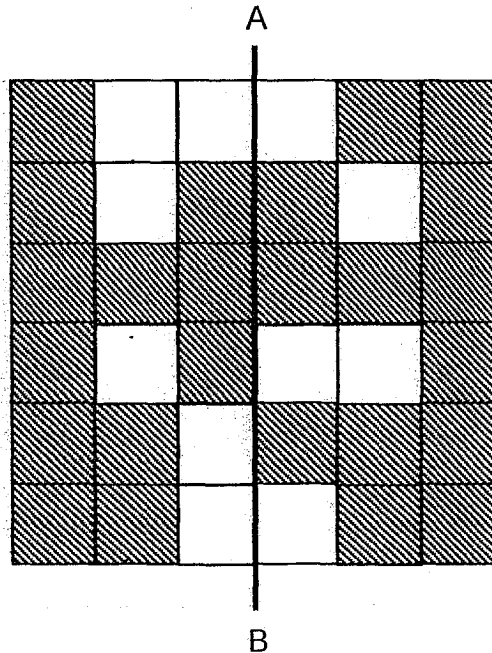
At what time was the tank $\frac{1}{3}$ filled with water?

Ans: _____ p.m.

- 28 At a fund-raising carnival, Mrs Lim sold a total of 3200 g of fries. Each large packet weighed 50 g and each small packet weighed 30 g. An equal number of large and small packets of fries were sold. How many small packets of fries did Mrs Lim sell altogether?

Ans: _____

- 29 In the figure below, shade three more squares so that the figure is symmetrical along line AB.



- 30 The picture below shows the price of chicken wings from Shop A. If Mr Tan buys chicken wings from Shop B, he has to pay 50¢ for one piece. With \$45, how many more chicken wings can he buy from Shop A than Shop B?



Ans: _____

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 The volume of a cuboid is twice the volume of 4 similar cubes. The length of each side of the cube is 4 cm. What is the volume of the cuboid?

Ans: _____ cm^3

- 2 A bakery had a sale as shown in the poster below.
How much did Eileen pay for 2 cakes during the sale?

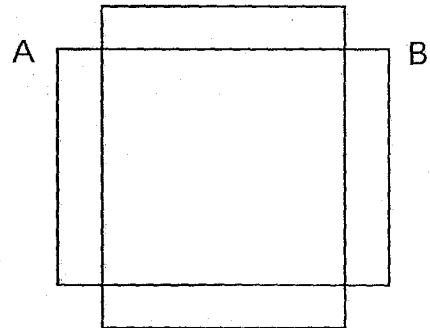
SALE
20% discount
for the 2nd cake
Usual price for 1 cake : \$30

Ans: \$ _____

- 3 A shop gave a discount of \$5 for every \$40 spent. Mrs Lee bought a dress and paid \$106. What was the price of the dress before the discount?

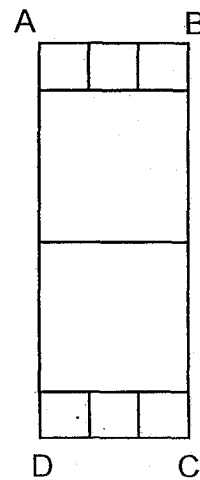
Ans: \$ _____

- 4 The figure is made up of 4 identical rectangles and a square. The length of each rectangle is 4 times its breadth. AB is 24 cm. Find the area of the square.

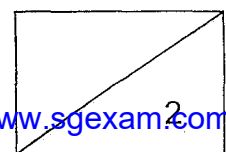


Ans: _____ cm²

- 5 The figure below shows a Rectangle ABCD which is made up of 2 similar big squares and 6 similar small squares. The area of each small square is 36 cm^2 . Find the perimeter of Rectangle ABCD.

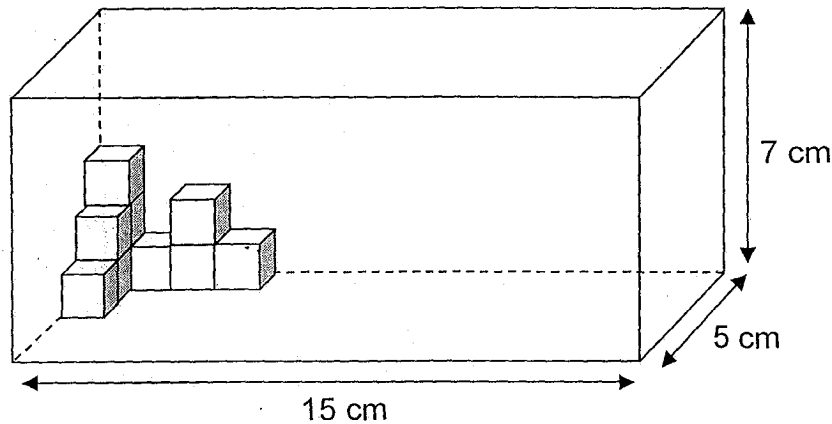


Ans: _____ cm



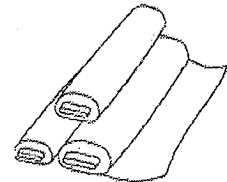
For Questions 6 to 17, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

- 6 There were some 1-cm cubes placed in a box as shown in the figure below. How many more such cubes are needed to fill up the box completely?



Ans: _____ [3]

- 7 Sam needs a total of 50 complete pieces of cloth, each of length 0.3 m to make dresses for dolls. The cloth is sold in rolls of length 200 cm each. What is the least number of rolls of cloth that Sam needs to buy?



Ans: _____ [3]

8. Barry and Lucas received an equal amount of money. After Barry spent \$80 and Lucas spent thrice as much money as Barry, the ratio of Barry's remaining amount of money to Lucas' became 2 : 1. How much money did each boy receive at first?

Ans: _____ [3]

9. Figure 1 below shows a shaded Triangle ABC within a square grid. Using BC as the base, draw another Triangle BCD in Figure 2 that has half the area of Triangle ABC. [3]

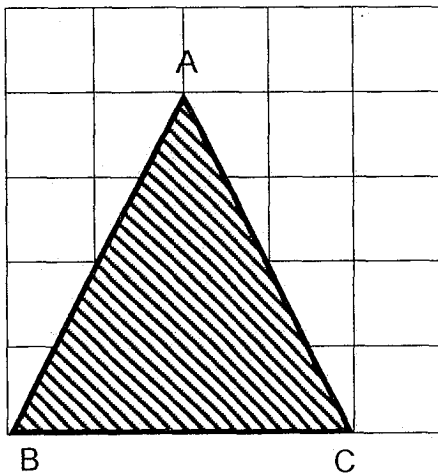


Figure 1

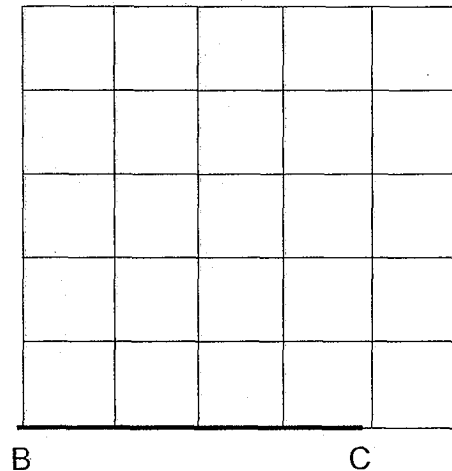
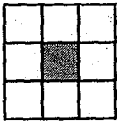
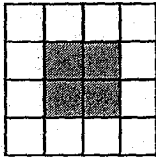
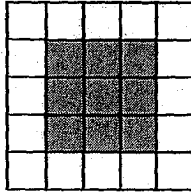
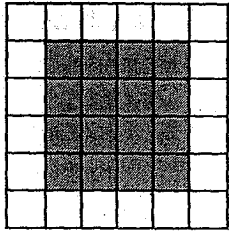


Figure 2

10 Some squares are used to form the pattern below.

			
Pattern 1	Pattern 2	Pattern 3	Pattern 4

- (a) What is the number of white squares in pattern 5?
- (b) What is the number of shaded squares in pattern 7?
- (c) What is the total number of squares in pattern 10?

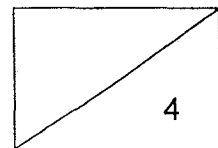
Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [2]

- 11 Mr Lee had some \$10 and \$20 funfare tickets. He sold 25% of his tickets and collected \$6300 from the sale. 20% of the tickets sold were \$10 tickets. How many tickets did he have at first?

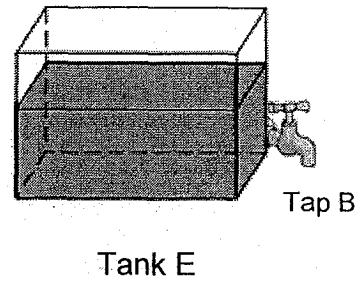
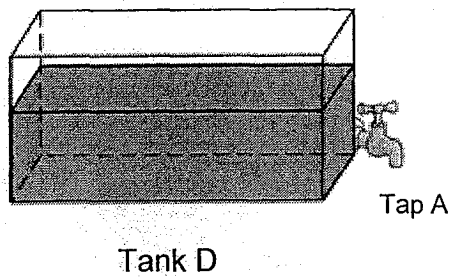
Ans: _____ [4]



- 12 Ben spent \$3390 of his savings on a refrigerator and an oven. $\frac{1}{3}$ of the cost of the refrigerator is \$80 more than $\frac{1}{4}$ of the cost of the oven. How much does the oven cost?

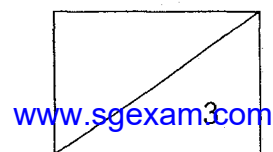
Ans: _____ [3]

- 13 The figure below shows Tank D and Tank E. Tank D contained 2940 litres of water and Tank E contained 1920 litres of water.

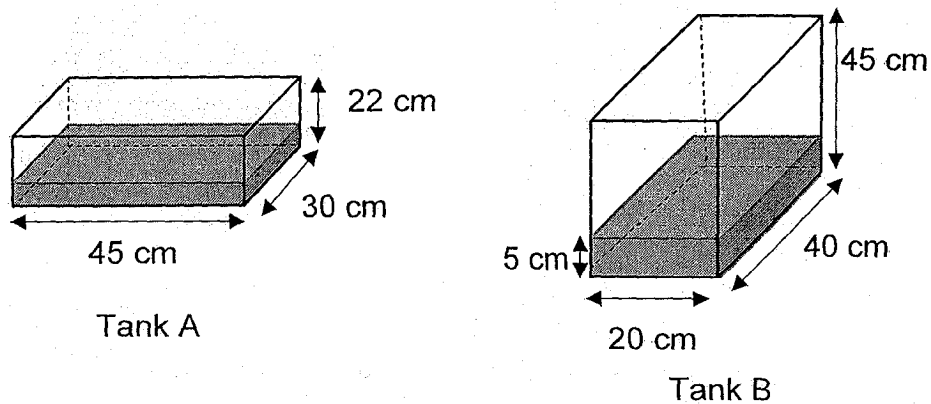


Bala turned on Tap A and Tap B at 8 a.m. Water flowed out of Tap A at 24 litres per minute and water flowed out of Tap B at 7 litres per minute. Bala turned off both taps when both tanks contained the same volume of water. At what time did Bala turn off the taps?

Ans: _____ [3]



- 14 The diagram below shows Tank A and Tank B filled with some water at first.
Tank A measuring 45 cm by 30 cm by 22 cm is $\frac{2}{3}$ filled with water.



- (a) Find the volume of water in Tank A at first.
- (b) Yi Ning poured all the water in Tank A into Tank B without spilling.
How much more water is needed to fill Tank B to its brim?

Ans: (a) _____ [2]

(b) _____ [2]

- 15** A sum of money is shared among Ali, Bala and Catherine. Ali receives 45% of it and the ratio of Ali's share to Bala's share is 9 : 7. If Catherine receives \$400, how much more money does Ali receive than Catherine?

Ans: _____ [5]

- 16 Alicia went shopping and spent $\frac{1}{3}$ of her money on a table. She spent $\frac{1}{4}$ of it on a sofa. She then spent $\frac{1}{2}$ of the remainder on a chair and another \$52 on a lamp. Given that she had $\frac{1}{8}$ of her money left, how much did she spend on the table?

Ans: _____ [5]

- 17 Farmer Daniel had a total of 128 apples, oranges and pears. $\frac{1}{4}$ of the fruits were apples. The ratio of the number of oranges to the number of pears was 5 : 7. After he gave away some pears and 15 apples, the ratio of the number of oranges to the total number of fruits left became 1 : 2.

- (a) How many apples did Farmer Daniel have at first?
(b) How many pears did Farmer Daniel give away?

Ans: (a) _____ [2]

(b) _____ [3]

END OF PAPER

SCHOOL : RED SWASTIKA SCHOOL
 LEVEL : PRIMARY 5
 SUBJECT : MATH
 TERM : 2018 CA2

PAPER 1 BOOKLET A

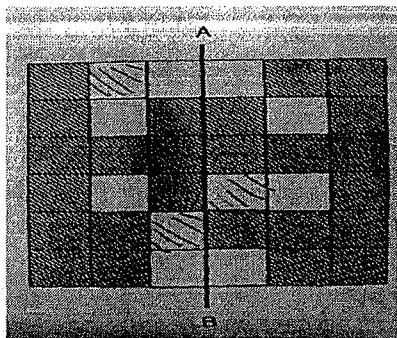
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	4	3	1	3	2	4	4	1

Q 11	Q12	Q13	Q14	Q15
4	1	1	2	4

PAPER 1 BOOKLET B

Q16)	$20 \times 15 \times 2 = 600 \text{ cm}^3$
Q17)	0.006
Q18)	20%
Q19)	\$60
Q20)	3:2
Q21)	$2 \text{ cm} \times 2 \text{ cm} \times 24 \text{ cm} = 32 \text{ cm}^3$
Q22)	7.543
Q23)	$9.9 \text{ kg} = 900 \text{ g}$ $900\text{g} \div 100 \text{ g} = 9$ $9 \times 0.50 = \text{\$4.50}$
Q24)	$24 \times 10 \times \frac{1}{2} = 120 \text{ cm}^2$
Q25)	$24 \div 4 = 6$ $6 \times 3 = 18$
Q26)	$1 \text{ h } 24 \text{ min} = 84 \text{ min}$ $84 \text{ min} \div 4 = 21 \text{ min}$
Q27)	5 p.m.
Q28)	$50 + 30 = 80$ $3200 \div 80 = 40$

Q29)



Q30) $45 \div 0.9 = 50$
 $50 \times 3 = 150$
 $45 \div 0.5 = 90$
 $150 - 90 = 60$

PAPER 2

Q1) $4 \times 4 \times 4 \times 4 \times 2 = 512$

Q2) $\$30 \times \frac{80}{100} = \24
 $\$24 + \$30 = \$54$

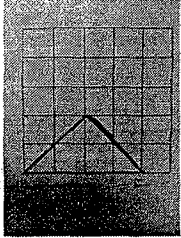
Q3) $106 \div 40 = 2 \text{ R } 26$
 $2 \times 5 = 10$
 $106 + 10 = \$116$

Q4) $24 \div 6 = 4$
 $4 \times 4 = 16$
 $16 \times 16 = 256$

Q5) $\sqrt{36} = 6$
 $6 \times 3 = 18$
 $8 \times 4 + 6 \times 10 = 132$

Q6) $15 \times 5 \times 7 = 525$
 $525 - (1 \times 1 \times 1 \times 10) = 515$

Q7) $0.3 \text{ m} = 300 \text{ cm}$
 $300 \text{ cm} \times 50 = 1500 \text{ cm}$
 $1500 \text{ cm} \div 200 \text{ cm} = 75$

Q8) $\\$80 \times 2 = \\160 $\\$160 \times 2 + \\$80 = \\$400$
Q9) 
Q10) a) $20 + 4 = 24$ b) $7 \times 7 = 49$ c) $(10 - 1) \times 4 = 36$ $10 \times 10 = 100$ $100 + 36 = 136$
Q11) $2 \times 10 = 20$ $8 \times 20 = 160$ $20 + 160 = 180$ $6300 \div 18 = 35$ $35 \times 10 = 350$ $350 \times 4 = 1400$
Q12) $\\$3390 + (\\$80 \times 4) = \\$3710$ $\\$3710 \div 7 = \\530 $\\$530 \times 4 - (\\$80 \times 4) = \\$1800$
Q13) $2940 - 1920 = 1020$ $24 - 7 = 17$ $1020 \div 17 = 60$ Answer: 9 a.m.
Q14) a) $45 \times 30 \times 22 \times \frac{2}{3} = 19800 \text{ cm}^3$ b) Volume of water in B $\rightarrow 5\text{cm} \times 20\text{cm} \times 40\text{cm} = 4000 \text{ cm}^3$ Capacity of tank B $\rightarrow 45\text{cm} \times 20\text{cm} \times 40\text{cm} = 36000 \text{ cm}^3$ $A + B \rightarrow 19800 + 4000 = 23800$ Water needed $\rightarrow 36\ 000 - 23\ 800 = 12\ 200 \text{ cm}^3$

Q15) $45\% \div 9 = 5\%$
 $5\% \times (9 + 7) = 80\%$
 $\$400 \rightarrow 100\% - 80\% = 20\%$
 $1\% \rightarrow \$400 \div 20 = \20
 $\text{Ali} \rightarrow \$20 \times 45 = \900
 $\$900 - \$400 = \mathbf{\$500}$

Q16) $\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$
 $\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$
 $(\frac{1}{8} + \$52) \times 2 = \frac{2}{8} + \104
 $\frac{5}{12} \rightarrow \frac{2}{8} + \104
 $\frac{12}{12} \rightarrow (\frac{2}{8} + \$104) \div 5 \times 12 = \frac{3}{5} + \249.60
 $\$249.60 \rightarrow \frac{12}{12} - \frac{3}{5} = \frac{2}{5}$
 $\frac{5}{5} \rightarrow \$249.60 \div 2 \times 5 = \624
 $\text{Table} \rightarrow \$624 \div 3 = \mathbf{\$208}$

Q17) a) $128 \div 4 = 32$
 b) $\frac{O}{5} : \frac{P}{7}$
 $12u \rightarrow 32 \times 3 = 96$
 $U \rightarrow 96 \div 12 = 8$
 $\text{Pear (at first)} = 8 \times 7 = 56$

Orange : Total (after)
 $\begin{array}{ccc} 1 & : & 2 \\ 5 & : & 10 \end{array}$

 $5u \rightarrow \text{pears (after) + apples (after)}$
 $\text{Apples (after)} \rightarrow 32 - 15 = 17$
 $\text{Total (after)} \rightarrow 8 \times 10 = 80$
 $\text{Pears (after)} \rightarrow 80 - (8 \times 5) - 17 = 23$
 $56 - 23 = \mathbf{33}$