NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2018

PRIMARY 5

MATHEMATICS
PAPER 1
(BOOKLET A)

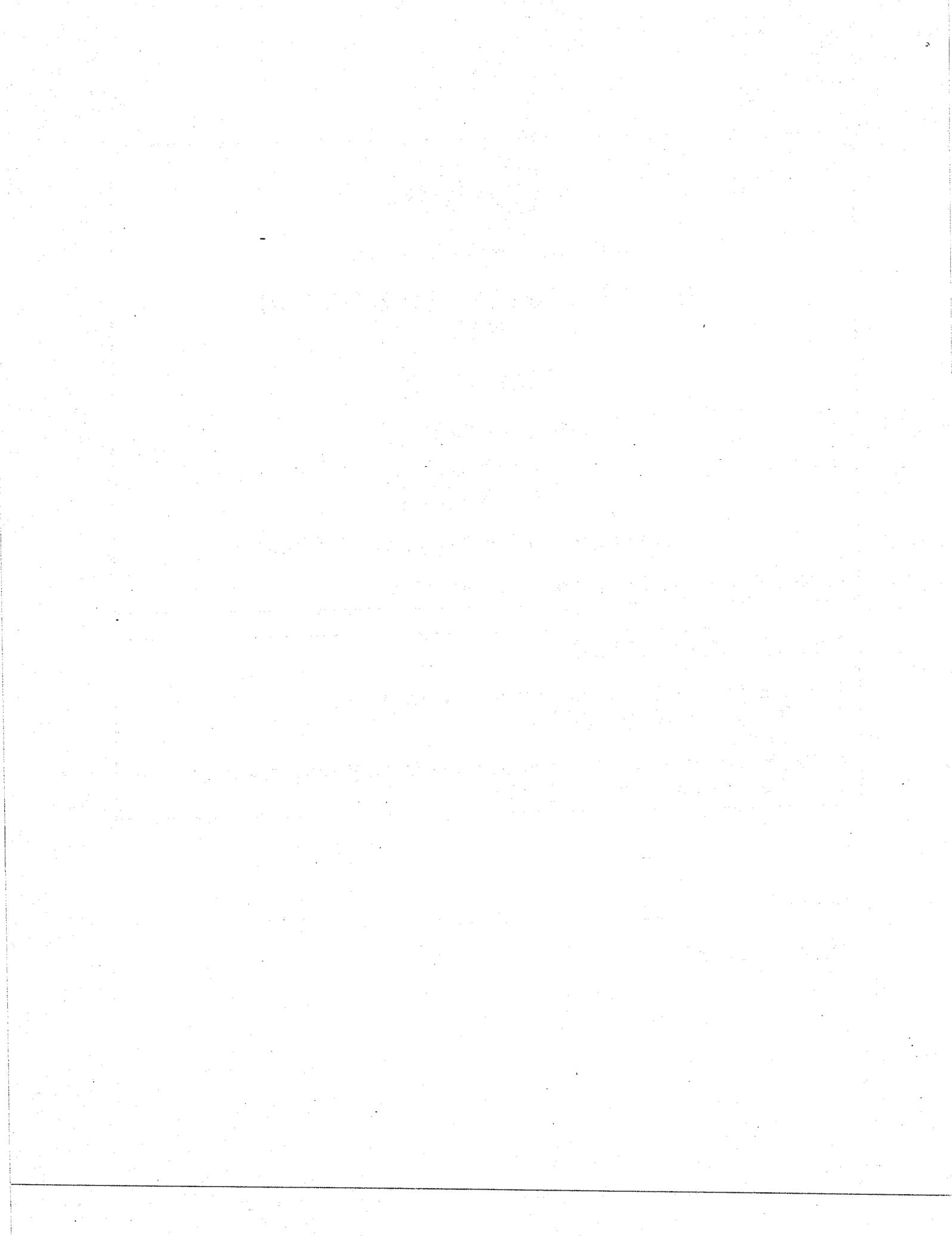Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is **NOT** allowed.

Name:_____ (   )

Class: Primary 5 (   )

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 your answer on the Optical Answer Sheet.   (20 marks)

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1   Find the value of $8 \times (4 + 2) - 4 \div 2$.

(1)   8

(2)   15

(3)   22

(4)   46

2   Which one of the following numbers has the digit 5 in the thousands place?

(1)   214 758

(2)   241 578

(3)   245 178

(4)   251 478

3   Express $\dfrac{5}{8}$ as a decimal.

    (1)   0.058

    (2)   0.58

    (3)   0.625

    (4)   0.875

4   Find the value of 38.9 × 400.

    (1)   155.6

    (2)   1556

    (3)   15 560

    (4)   155 600

5   Express 28 km 45 m in kilometres.

    (1)   2.845 km

    (2)   28.045 km

    (3)   28.450 km

    (4)   284.5 km

6 Which one of the following is the same as 37 ones and 65 thousandths?

(1) 3.765

(2) 37.065

(3) 37.65

(4) 3765

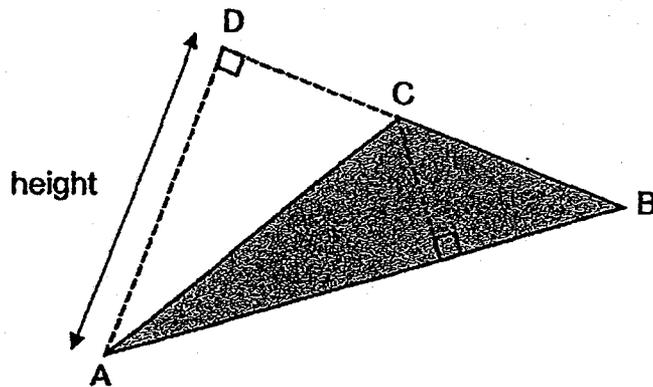**7** Express 0.112 as a fraction in the simplest form.

(1) $\dfrac{3}{25}$

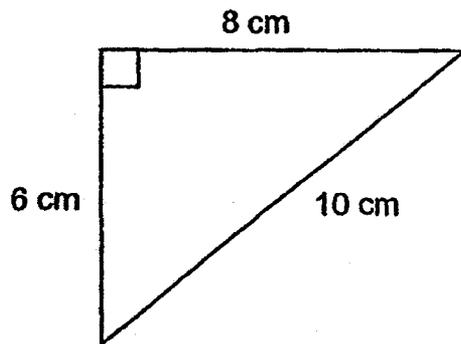(2) $\dfrac{12}{100}$

(3) $\dfrac{14}{125}$

(4) $\dfrac{112}{1000}$

8   In the figure below, ABC, ABD and ACD are triangles.

Given that AD is the height of triangle ABC, what is its base?

(1)   AB

(2)   BC

(3)   BD

(4)   AC

9   Find the area of the triangle below.

(1)   24 cm^2

(2)   30 cm^2

(3)   40 cm^2

(4)   48 cm^2

10   Express 6 litres in cm^3.

(1)   6 cm^3

(2)   60 cm^3

(3)   600 cm^3

(4)   6000 cm^3

11 Four children shared a packet of sweets.   After each of them received 15 sweets, there were 5 sweets left.   What was the total number of sweets in the packet?

(1)   35

(2)   50

(3)   60

(4)   65

12 Devi wants to pack 205 050 paper clips into some boxes.   Each box can hold 100 paper clips.   What is the smallest number of boxes she needs to hold all her paper clips?

(1)   25

(2)   26

(3)   2050

(4)   2051

13 The mass of package A was 18.9 kg. Package A was 3.75 kg heavier than package B. Package C was 2.3 kg heavier than package B. What was the mass of package C?

(1) 12.85 kg

(2) 15.15 kg

(3) 17.45 kg

(4) 20.35 kg

14 A rectangular tank measuring 20 cm by 15 cm by 12 cm is partially filled with water to a height of 2 cm. What is the smallest number of flasks of water that has to be added to fill the tank completely, given that each flask can hold 300 ml of water?

12 cm

15 cm

20 cm

300 ml
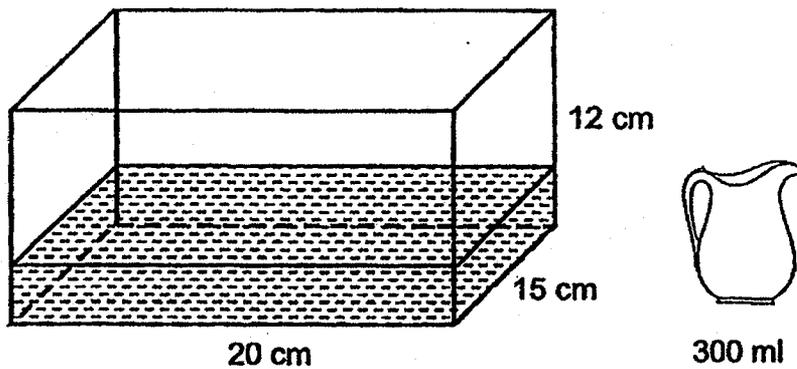
(1) 10

(2) 2

(3) 3

(4) 12

15 Mrs Lee had a total of 369 red and blue buttons. $\dfrac{7}{9}$ of the buttons were

red. How many more red buttons than blue buttons did she have?

(1)   41

(2)   82

(3)   205

(4)   287

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2018

PRIMARY 5

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
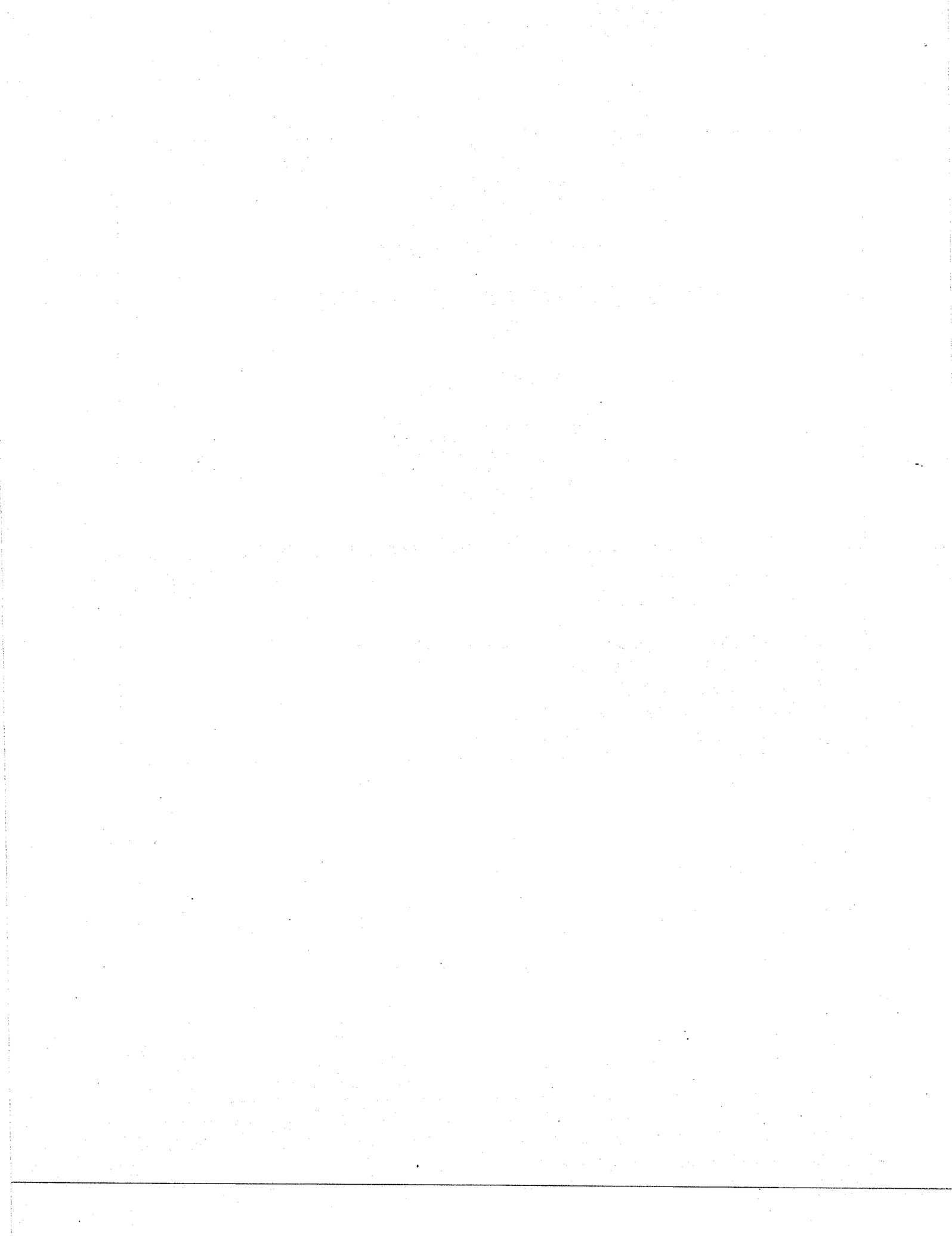5. The use of calculators is **NOT** allowed.

Name:_____ (   )

Class: Primary 5 (   )

Booklet B	/ 25

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)

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16   Write seven hundred and forty-two thousand and two in numerals.

Ans: _____

---

17   Find the value of $45 - 15 \div 5 + 30 \times 2$.

Ans: _____

---

18   Yvette spent $\frac{1}{5}$ of her money on transport and $\frac{5}{8}$ of the remaining money on food. What fraction of her money did she spend on food? Give your answer in the simplest form.
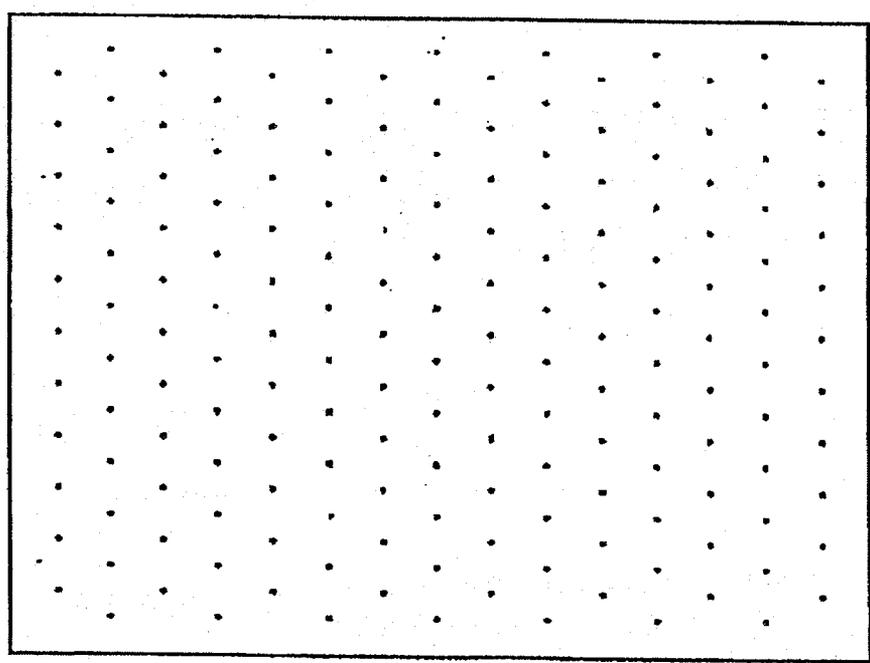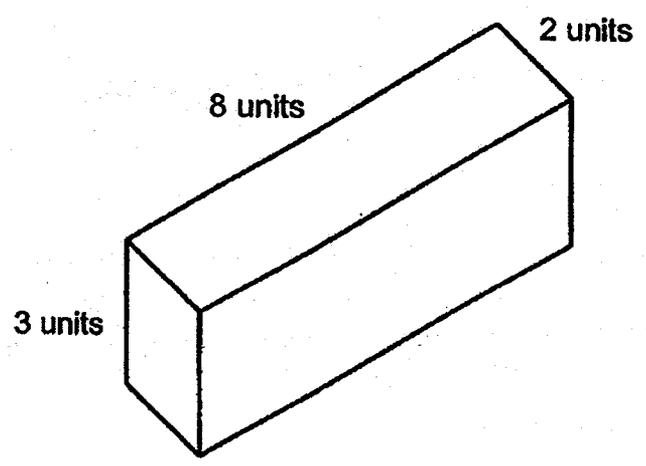
Ans: _____

---

19   Evan paid $4.80 for 4 oranges and $6.90 for 3 apples. How much would 8 such oranges and 6 such apples cost altogether?

Ans: $_____

20 Draw the solid shown below on the given isometric grid.

Questions **21** 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. (20 marks)

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21 The length of a rope was 9 m long. It was cut into 12 equal pieces. What was the length of each piece of rope after it was cut? Give your answer as a fraction in the simplest form.

Ans: _____ m

---

22 Anderson watched a movie that lasted 1 h 44 min. The movie ended at 21 30. At what time did the movie start? Give your answer in the 24-hour clock format.

Ans: _____

---

23 What is the missing number in the box?

$970\,870 = 900\,000 + 70 \times \boxed{} + 800 + 70$

Ans: _____

---

24 The product of two numbers is 2508.   The smaller number is 4.   Find the larger number and round it to the nearest hundred.
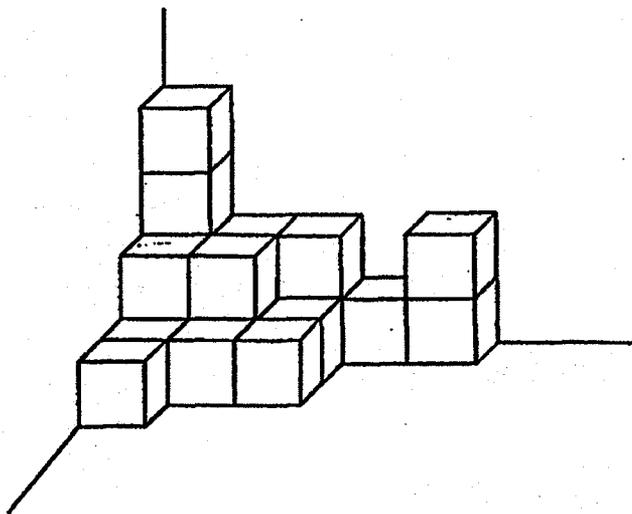
Ans: _____

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25 The mass of an empty box was 0.32 kg.   Its mass was 40 times as heavy as the mass of one marble.   What was the total mass of the empty box and 10 such marbles?

Ans: _____ kg
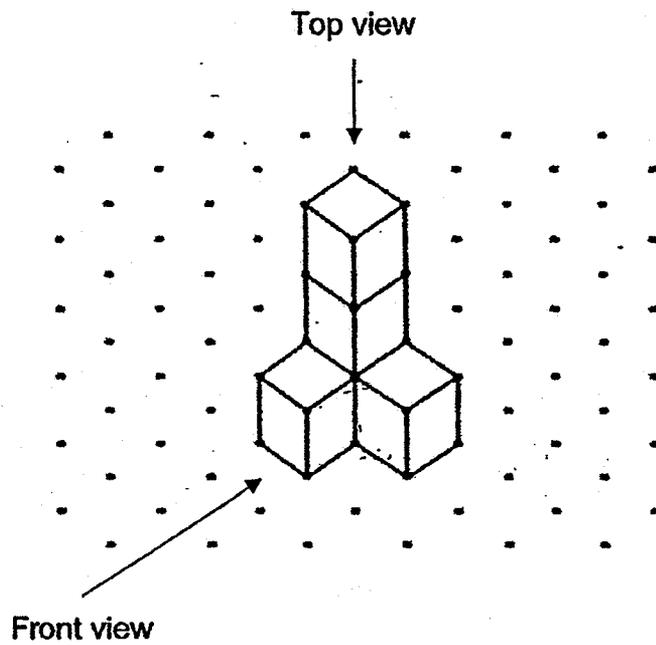
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26 The solid below is built using unit cubes.
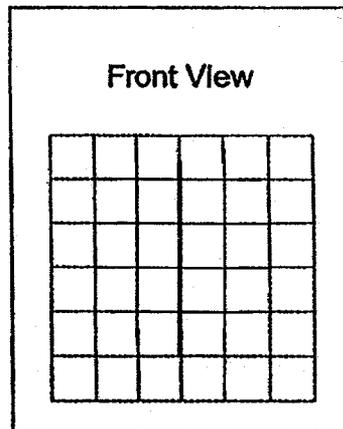

How many unit cubes are used to build the solid?
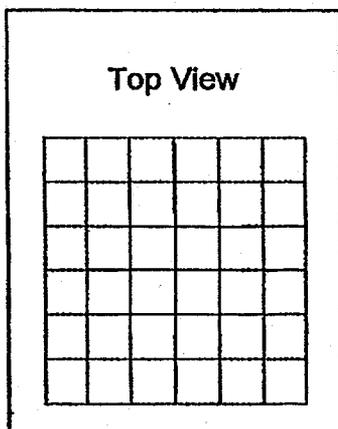
Ans: _____

4

27 The solid below is built with unit cubes.

Top view

Front view

Draw the top view and front view of the solid on the square grids provided below.

Top View	Front View

28 There are 7 ℓ 9 ml of water in container A. Container B has twice as much water as container A. Find the total amount of water in both containers. Give your answer in litres.
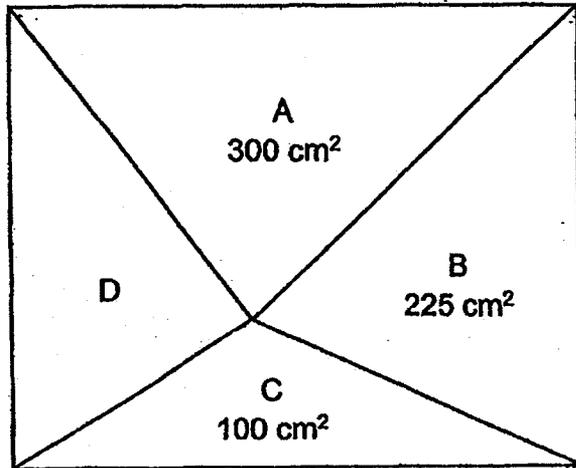
Ans: _____ ℓ

29 Alice bought a blouse and a dress. The dress cost 6 times as much as the blouse. The dress cost $153. She gave the cashier $200. How much change did she receive?

Ans: $_____

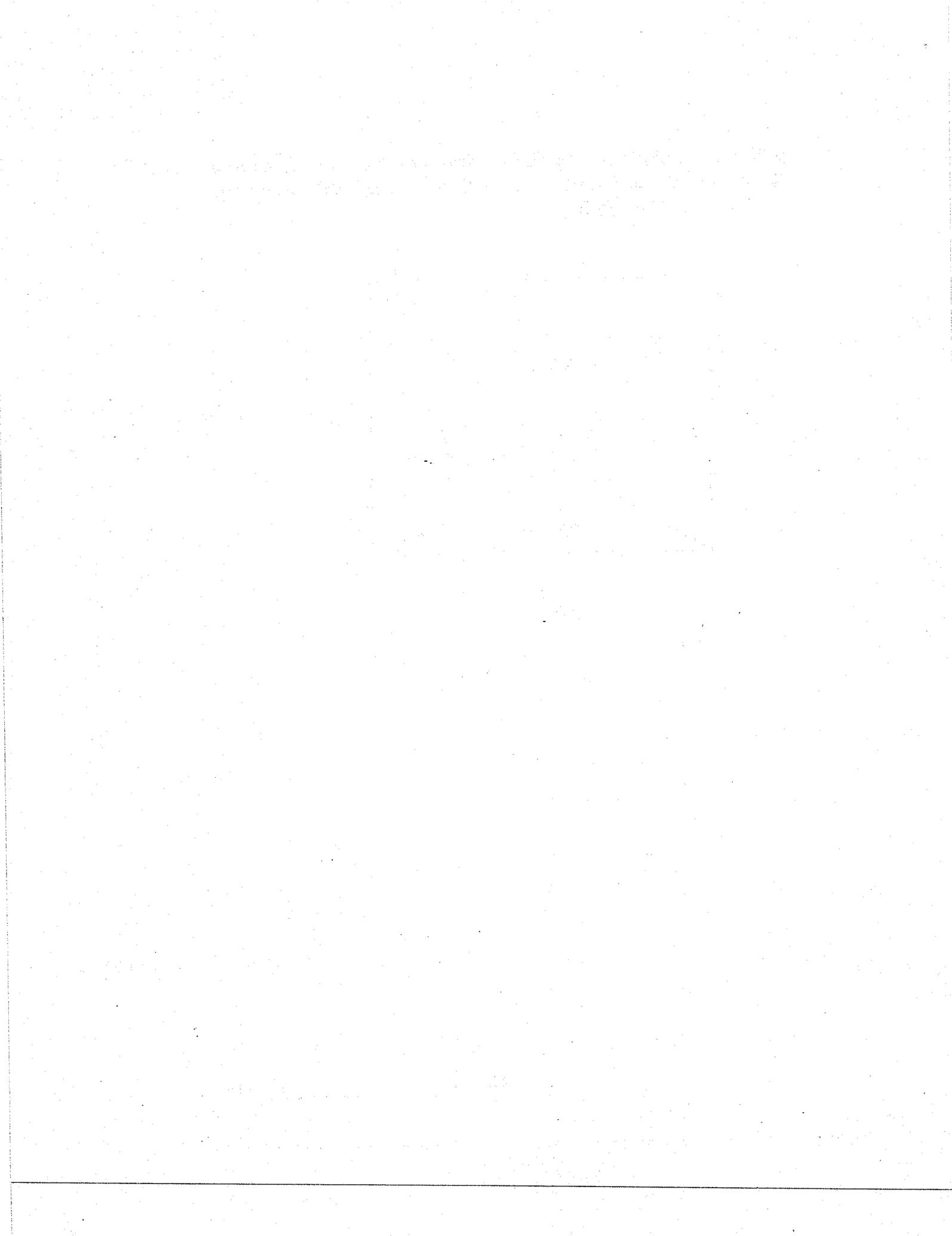**30** In the figure below, the rectangle is divided into 4 triangles.   The areas of triangles A, B and C are 300 cm², 225 cm² and 100 cm² respectively. Find the area of triangle D.

A
300 cm²

B
225 cm²

D

C
100 cm²

Ans: _____ cm²

End of Paper

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2018

PRIMARY 5

MATHEMATICS
PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of an approved calculator is expected, where appropriate.

Name: _____ (   )

Class: Primary 5 (   )

Parent's Signature: _____

Booklet A	**/ 20**
Booklet B	**/ 25**
Paper 2	**/ 55**
Total	**/ 100**

Any query on marks awarded should be raised by **17 May 2018**. We seek yuor understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.
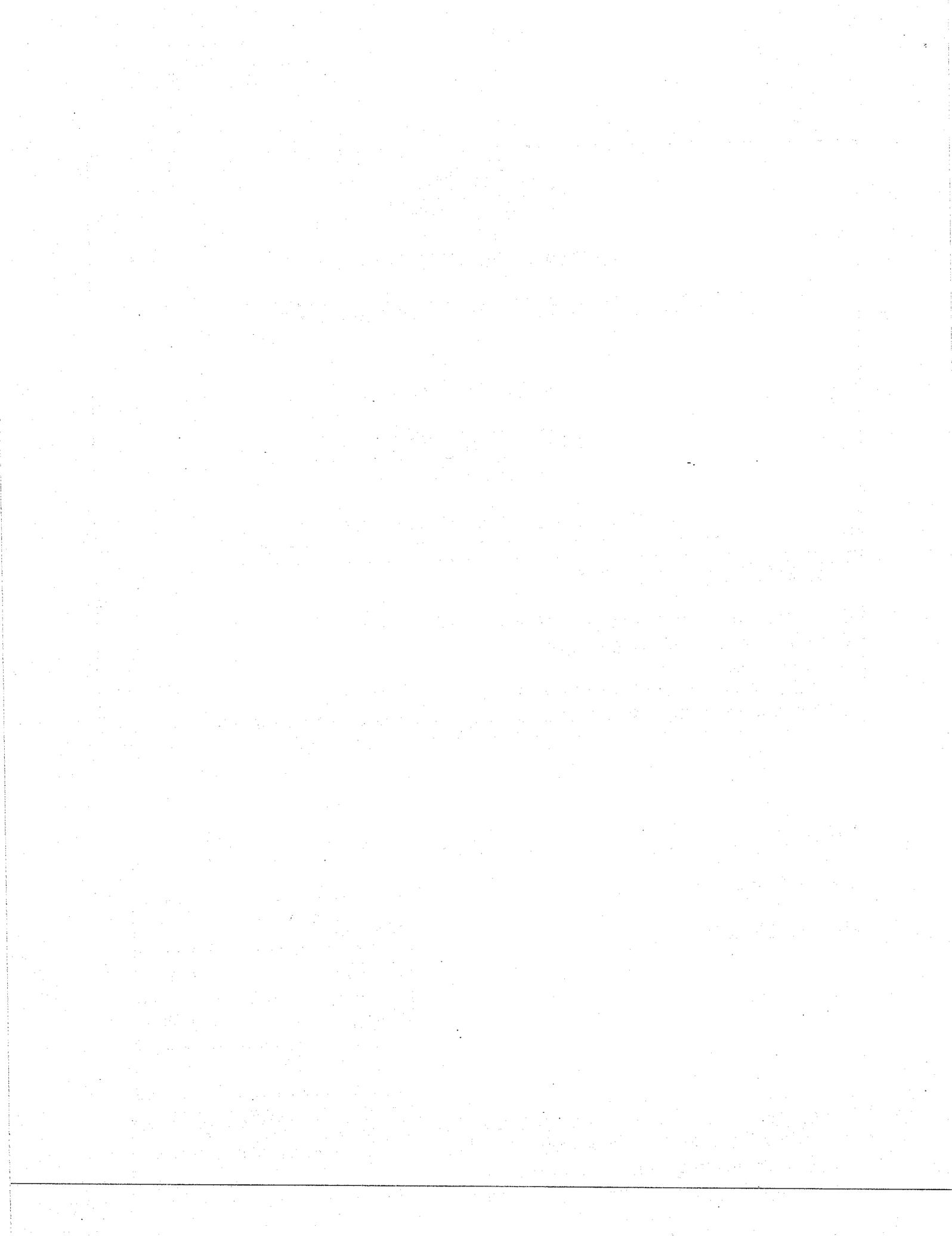
Questions **1** to **5** carry 2 marks each.   Show your working clearly and write your answers in the spaces provided.   For questions which require units, give your answers in the units stated.   (10 marks)

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1   A jug contained 3 litres of water.   Mary drank $\frac{2}{5}$ of it.   How much water was left in the jug?

Ans: _____ ml

---

2   Sandra had $5\frac{4}{5}$ m of cloth.   She gave $2\frac{7}{10}$ m of cloth to her sister.   She then bought $3\frac{3}{4}$ m of cloth.   How many metres of cloth did she have in the end?   Give your answer as a mixed number in the simplest form.

Ans: _____ m

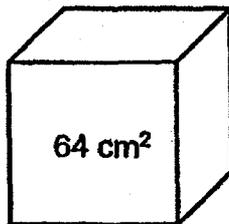3   The figure below is made up of triangle PQR and triangle PRS.
     QTRS is a straight line.   PT = 28 cm, PS = 58 cm, QR = 60 cm and
     RS = 25 cm.   Find the area of triangle PQS.

P

58 cm

28 cm

Q   T   R   S

60 cm   25 cm
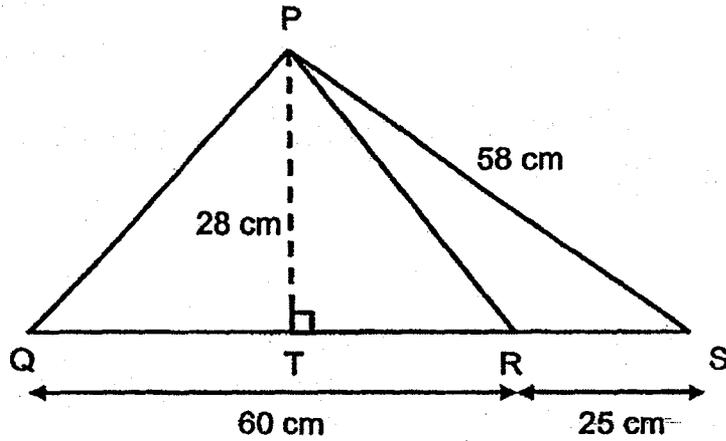
Ans: _____ cm^2

4   The area of each face of the cube below is 64 cm^2.
     What is the volume of the cube?

64 cm^2

Ans: _____ cm^3

5   There are thrice as many red markers as blue markers. Each red marker cost $4. Each blue marker cost $2.50. The red markers cost $38 more than the blue markers. How many blue markers are there?

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 brackets [ ] at the end of each question or part-question.   (45 marks)

6   The length of each side of a square is $\frac{9}{5}$ m.   What is the total area of 5 such squares?   Give your answer as a mixed number in the simplest form.

Ans: _____ [3]

7   Matthew spent $1\frac{3}{5}$ h to complete his Mathematics homework.   The amount of time he spent on completing his Chinese homework was twice the amount of time he spent on completing his Mathematics homework.   How much time did he take to complete both his Mathematics and Chinese homework?

Ans: _____ [3]

8   En Xi bought an equal number of red and white pieces of ribbons. She bought a total of 252 m of ribbons.   Each piece of red ribbon was 15.5 m long.   Each piece of white ribbon was 3 m shorter than each piece of red ribbon.   How many pieces of red and white ribbons did she buy in all?
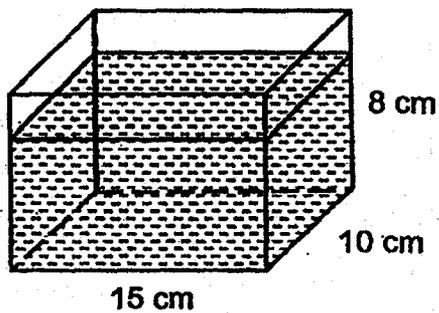
Ans: _____ [3]

9   Shania and John had some stamps.   Shania had 5 times as many stamps as John.   After Shania gave 24 stamps to John, both of them had an equal number of stamps.   How many stamps did both of them have altogether?

Ans: _____ [3]

10   A rectangular tank measuring 15 cm by 10 cm by 8 cm was $\frac{3}{4}$ filled with water as shown below.   378 ml of the water were poured out from the tank.   How much water was left in the tank?   Give your answer in litres.

8 cm

10 cm

15 cm

Ans: _____ [3]

11   The figure below is made up of square ABGH and rectangle CDEG.
      Each side of square ABGH is 8 cm.   BC = 1 cm, CD = 10 cm and
      FE = 4 cm.   HMD and HGFE are straight lines.   Find the total area of
      the shaded parts.
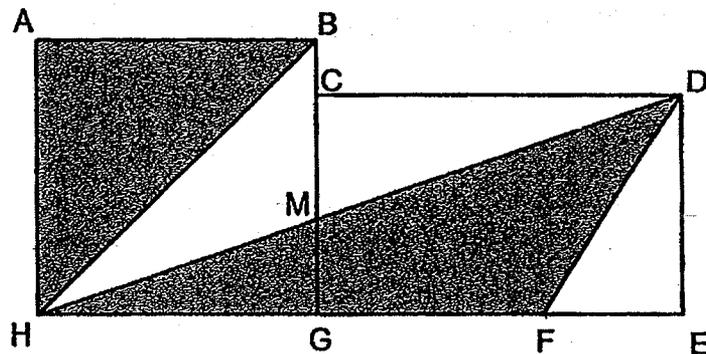
Ans: _____ [4]

12 A baker packed 407 muffins into boxes of 12 muffins with some left over. He sold each box of 12 muffins for $15 and the remaining muffins at $1.50 each.

(a) How many boxes of 12 muffins did he pack at most?

(b) What was the smallest amount of money that he collected altogether from the sale of all the muffins?

Ans: (a) _____ [2]

(b) _____ [2]

13   The Jubilee Performing Arts Group held a musical at a concert hall.
      The prices for the tickets are shown below.

JUBILEE PERFORMING ARTS GROUP Musical by Moonlight	
Ticket	**Price Per Ticket**
Type A	$12
Type B	$5
Type C	$2

711 tickets were sold and a total of $5715 was collected from the sale
of tickets. $1155 was collected from the sale of Type B tickets.

(a) How many Type B tickets were sold?

(b) How many more Type A tickets than Type C tickets were sold?

Ans: (a) _____ [1]

      (b) _____more [3]

14 En Hui and Zavier had 480 soccer cards altogether. Zavier gave $\frac{1}{5}$ of his cards to En Hui. After receiving the cards from Zavier, En Hui then gave $\frac{1}{3}$ of the total number of cards she had to Zavier. Both of them had the same number of cards in the end.

(a) How many cards did Zavier have at first?

(b) How many cards did En Hui have at first?

Ans: (a) _____ [2]

(b) _____ [2]

15   Jia Heng received $200 each month for his pocket money. The line
      graph below shows the amount of pocket money he saved each month
      from January to June.
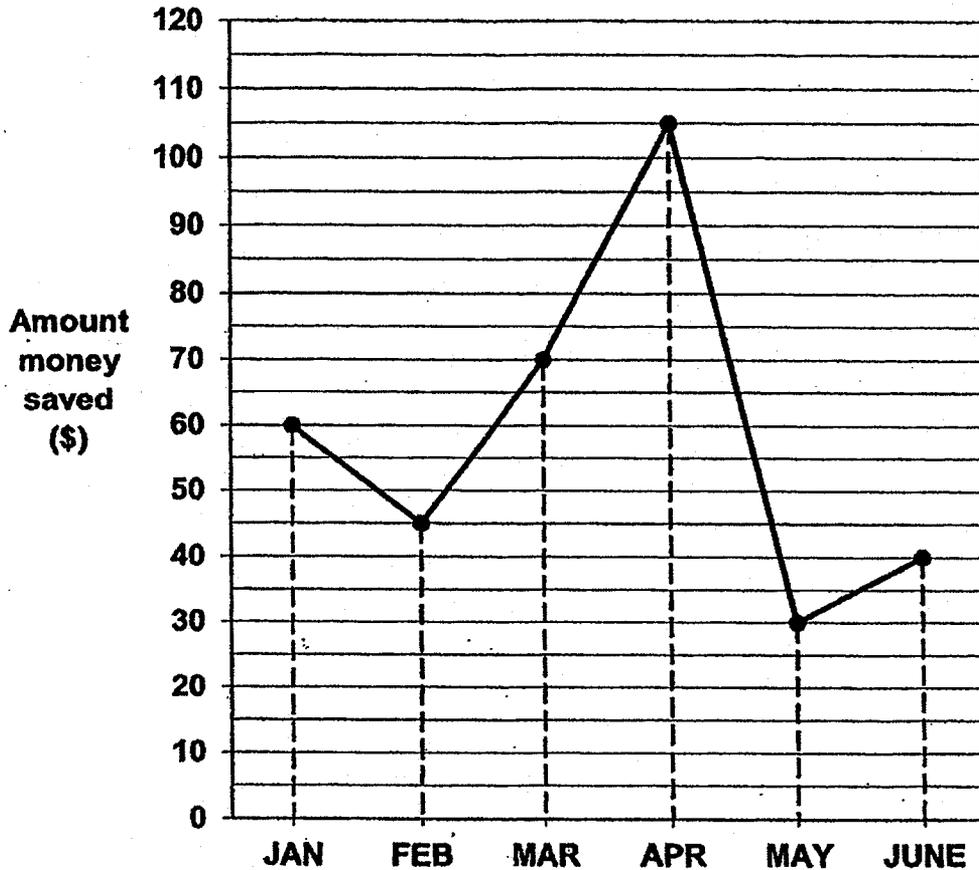
(a)   In April, Jia Heng only spent on transport and on food.
       He spent $71.85 on transport. How much money did he
       spend on food in April?

(b)   How much money did Jia Heng save in total over the 6
       months from January to June?

Ans: (a) _____ [2]

       (b) _____ [2]

16 Ravi had some twenty-cent coins and some fifty-cent coins. The number of twenty-cent coins was 4 times as many as the number of fifty-cent coins. He exchanged 100 twenty-cent coins for fifty-cent coins of the same value. He then had 38 more fifty-cent coins than twenty-cent coins.

(a) How many more twenty-cent coins than fifty-cent coins did Ravi have at first?

(b) How much money did Ravi have?

Ans: (a) _____ [3]

(b) _____ [2]

17 Ahmad had a sum of money at first. He spent $\frac{1}{3}$ of his money on 12 cupcakes and $\frac{3}{8}$ of his remaining money on 8 muffins. He was then left with $18.
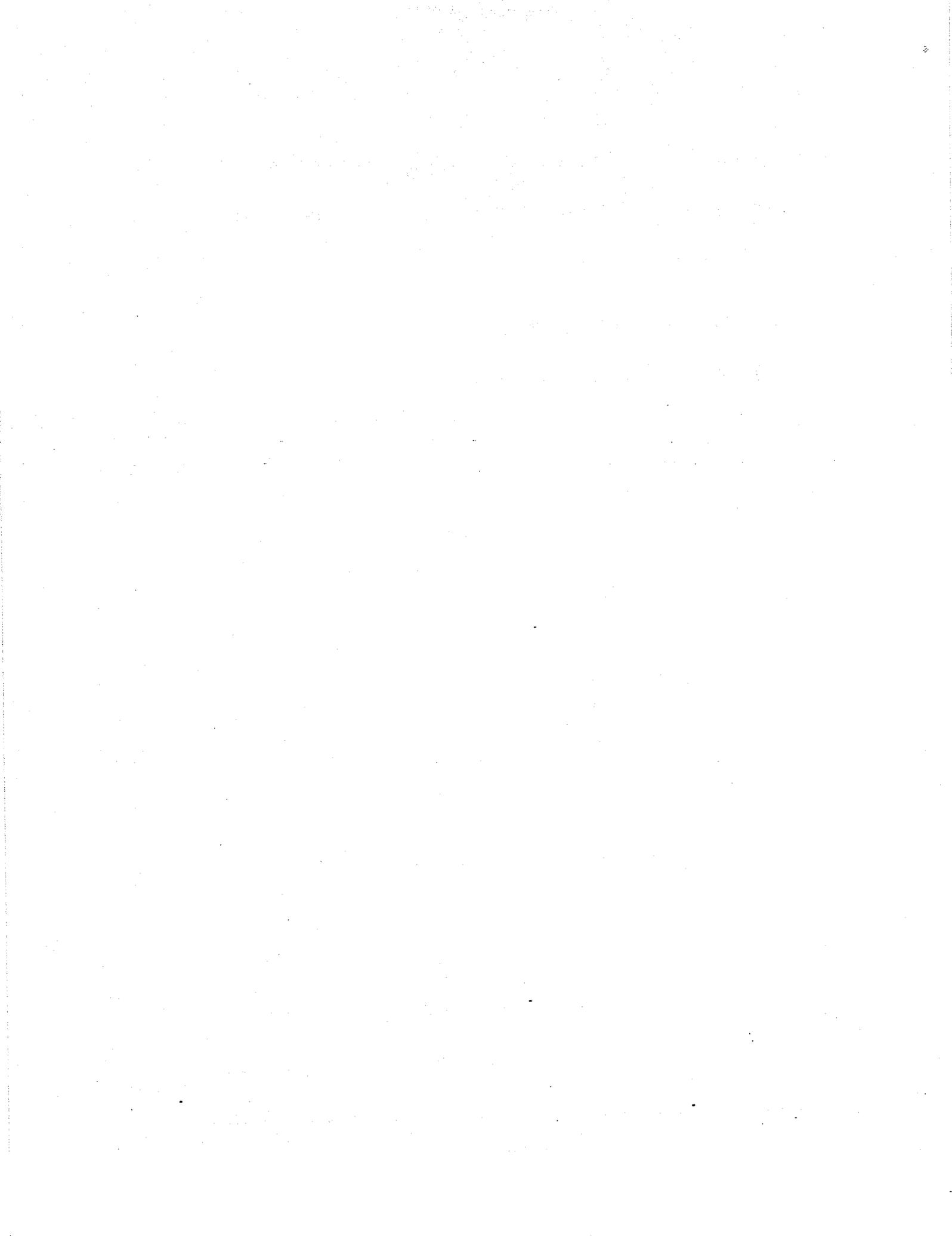
(a) How much did each muffin cost?

(b) How much did he have at first?

Ans: (a) _____ [3]

(b) _____ [2]

SCHOOL   :   NANYANG PRIMARY SCHOOL
LEVEL   :   PRIMARY 5
SUBJECT :   MATH
TERM   :   2018 SA1

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	3	3	2	2	3	2	1	4

Q11	Q12	Q13	Q14	Q15
4	4	3	1	3

PAPER 1 BOOKLET B
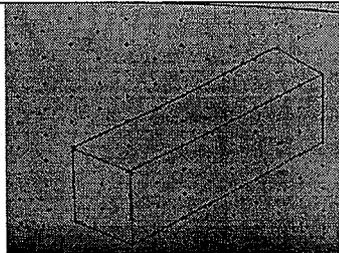
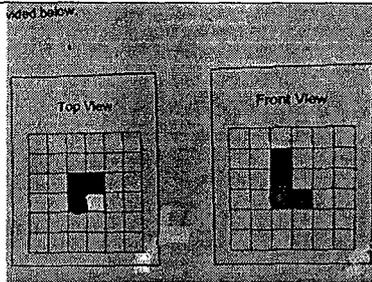|	
Q16)	742 002
Q17)	102
Q18)	$\dfrac{5}{8} \times \dfrac{4}{5} = \dfrac{1}{2}$
Q19)	$4 \times 2 = 8$ $3 \times 2 = 6$ $\$4.80 + \$6.90 = \$11.70$ $\$11.70 \times 2 = \mathbf{\$23.40}$
Q20)	
Q21)	$\dfrac{3}{4}$
Q22)	19 46
Q23)	1000
Q24)	$2508 \div 4 = 627$ $\approx \mathbf{600}$
Q25)	$0.32 \div 4 = 0.08$ $0.32 + 0.08 = \mathbf{0.4}$

Q26)	**20**
Q27)	
Q28)	7 L 9 ml x 3 = 21 L 27 ml $\qquad$ = **21.027 L**
Q29)	6 units → $153 1 unit → $153 ÷ 6 = $25.50 $153 + $25.50 = $178.50 $200 - $178.50 = **$21.50**
Q30)	300 + 100 = 400 400 − 225 = **175** cm^2

PAPER 2

Q1)	Mary drank→ $3 \times \dfrac{2}{5}$ = 1.2 litre Water left→ 3 - 1.2 = 1.8 litre $\qquad$ = **1800 ml**
Q2)	$5\frac{4}{5} - 2\frac{7}{10}$ = 29/5 - 27/10 =31/10 =$3\frac{1}{10}$ $3\frac{1}{10} + 3\frac{3}{4} = \mathbf{6\frac{17}{20}}$
Q3)	$\frac{1}{2}$ x (60 + 25) x 28 = **1190** cm^2
Q4)	8 x 8 = 64 8 cm x 8 cm x 8 cm = **512 cm³**
Q5)	4 x 3 = 12 12 - 2.5 = 9.5 38 ÷ 9.5 = **4**

Q6)	Area of 1 square $\rightarrow \frac{9}{5} x \frac{9}{5} = \frac{61}{25}$
	Area of 5 squares $\rightarrow 3\frac{6}{25}$ x 5
	$= \frac{81}{25}$ x 5
	$= \frac{81}{25}$
	$= 163\frac{1}{5}$ m²

Q7)	Chinese $\rightarrow 1\frac{3}{5}$ x 2 = 16/5
	$= 3\frac{1}{5}$
	Total time spent $\rightarrow 1\frac{3}{5}$ h + $3\frac{1}{5}$ h = $4\frac{4}{5}$ h

Q8)	Red $\rightarrow$ 15.5 m
	White $\rightarrow$ 15.5 ÷ 3 = 12.5 m
	1 group $\rightarrow$ 15.5m + 12.5 m = 28 m
	No. of groups $\rightarrow$ 252 m ÷ 28 m = 9
	Total number of groups $\rightarrow$ 9 + 9 = **18**

Q9)	2 units $\rightarrow$ 24
	1 unit $\rightarrow$ 24 ÷ 2 = 12
	6 units $\rightarrow$ 12 x 6 = **72**

Q10)	8 ÷ 4 = 2
	2 x 3 = 6
	15 x 6 x 10 = 900
	900 – 378 = 522 (**Ans : 0.522 litre**)

Q11)	$\frac{1}{2}$ x 8 x 8 = 32
	$\frac{1}{2}$ x 14 x 7 = 49
	32 + 49 = **81 cm²**

Q12)	a) 407 ÷ 12 = 33 R 11
	= **33**
	b) 33 x $15 = $495
	11 x $1.50 = $16.50
	Total $\rightarrow$ $495 + $16.50 = **$511.50**

Q13)	a) $1155 ÷ $5 = **231**
	b) 711 – 231 = 480

	$5715 - $1155 = $4560 4560 − 960 = 3600 12 − 2 = 10 3600 ÷ 10 = 360 480 − 360 = 120 360 − 120 = **240**
Q14)	a) 240 ÷ 2 = 120 120 x 3 = **360** b) 120 ÷ 4 = 30 120 + 30 = 150 480 − 150 = **330**
Q15)	a) Saved in april → $105 Spent in april → $200 - $105 = $95 $95 - $71.85 = **$23.15** b) Saved in total → $60 + $45 + $70 + $105 + $30 + $40 = **$350**
Q16)	a) 100 x $0.20 = $20 $20 ÷ 0.50 = 40 40 − 38 = 2 100 + 2 = **102** b) 102 ÷ 3 = 34 34 + 2 = 36 36 x 20 = 720 cents 34 + 40 = 74 74 x 50 cents = 370 cents $7.20 + $37 = **$44.20**
Q17	a) $\frac{5}{8} x \frac{2}{3} = \frac{5}{12}$($18) 3/8 x 2/3 = ¼ =3/12 (8 muffins) 1/12 → $18 ÷ 5 = $3.60 3/12 → $3.60 x 3 = $10.80 $10.80 ÷ 8 = **$1.35** b) $\frac{12}{12}$ → $3.60 x 12 = **$43.20**