NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2017

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 1 HOUR

Booklet A	**/ 20**	**Paper 1 Total:**
Booklet B	**/ 25**	**/ 45**

Name: _____ (   )

Class: Primary 5 (   )

Date: 3 May 2017

Any query on marks awarded should be raised by 18 May 2017. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Parent's Signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL 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 them is the correct answer Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

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1   Find the value of $24 - 3 \times (12 - 8) + 8 \div 2$.

     (1)   10

     (2)   16

     (3)   46

     (4)   88

2   Which one of the following numbers has the digit '3' in the ten thousands place?

     (1)   895 321

     (2)   859 231

     (3)   853 921

     (4)   835 921

3   Express $3\dfrac{78}{125}$ as a decimal.

     (1)   3.125

     (2)   3.312

     (3)   3.624

     (4)   3.78

4   Find the value of 73.2 ÷ 30.

     (1)   0.244

     (2)   2.44

     (3)   24.4

     (4)   244

5   Express 9 kg 580 g in kilograms.

     (1)   9.058 kg

     (2)   9.58 kg

     (3)   95.08 kg

     (4)   95.8 kg

6   Express $70 + 3 + \dfrac{83}{1000}$ as a decimal.

     (1)   70.380

     (2)   70.383

     (3)   73.083

     (4)   73.830

7   Express 6.006 as a mixed number in its simplest form.
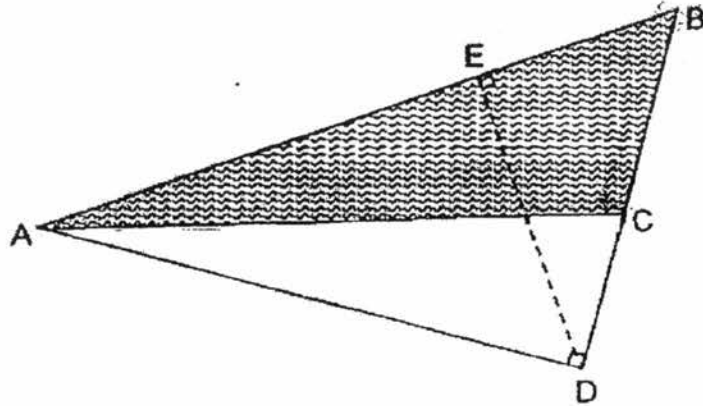
     (1) $6\dfrac{3}{5}$

     (2) $6\dfrac{3}{50}$

     (3) $6\dfrac{3}{500}$

     (4) $6\dfrac{6}{1000}$

8   In the figure below, triangle ABD is made up of triangle ABC and triangle ACD.

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

(1)   AB

(2)   AD

(3)   CD

(4)   ED

9   Look at the table below.

Triangle	Base	Height
A	12 cm	12 cm
B	8 cm	6 cm
C	8 cm	4 cm
D	6 cm	4 cm

Which triangle has the area of 24 cm²?

(1) A·

(2) B

(3) C

(4) D

10   Express 9000 cm³ in ml.

(1)   9 ml

(2)   90 ml

(3)   900 ml

(4)   9000 ml

5

11 Find the product of 23 and 700.

    (1)   161

    (2)   1610

    (3)   16 100

    (4)   161 000

12 Rina had 3 packets of sweets. Each packet contained 12 sweets. She gave all her sweets equally to 4 friends. How many sweets did each friend receive?

    (1)   9

    (2)   12

    (3)   13

    (4)   36

13   Brian scored 75 marks in a Mathematics test.   Tom's score for the test

      was $\frac{3}{5}$ of Brian's score.   How many marks did Tom score for the

      Mathematics test?

      (1)   15

      (2)   30

      (3)   45

      (4)   60

14   A durian cost $25.45.   The durian cost $21.30 more than a pineapple.
      Vicky paid for 1 pineapple and 1 durian with a fifty-dollar note.   How
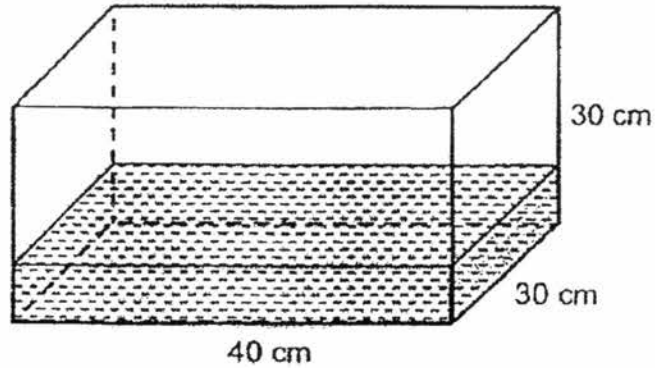   much change did she receive?

      (1) $4.15

      (2) $20.40

      (3) $29.60

      (4) $46.75

15 At first, a rectangular tank measuring 40 cm by 30 cm by 30 cm contained some water as shown below.

After Melvin poured 2400 ml of water into the tank, the tank became $\frac{2}{3}$-filled with water. How much water was there in the tank at first?

(1)   21 600 cm³

(2)   24 000 cm³

(3)   26 400 cm³

(4)   36 000 cm³

Name: _____(   )   Class: Pr 5 (   )

PAPER 1 (BOOKLET B)

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 eight million, seven hundred and two thousand and ninety-two in numerals.

Ans: _____

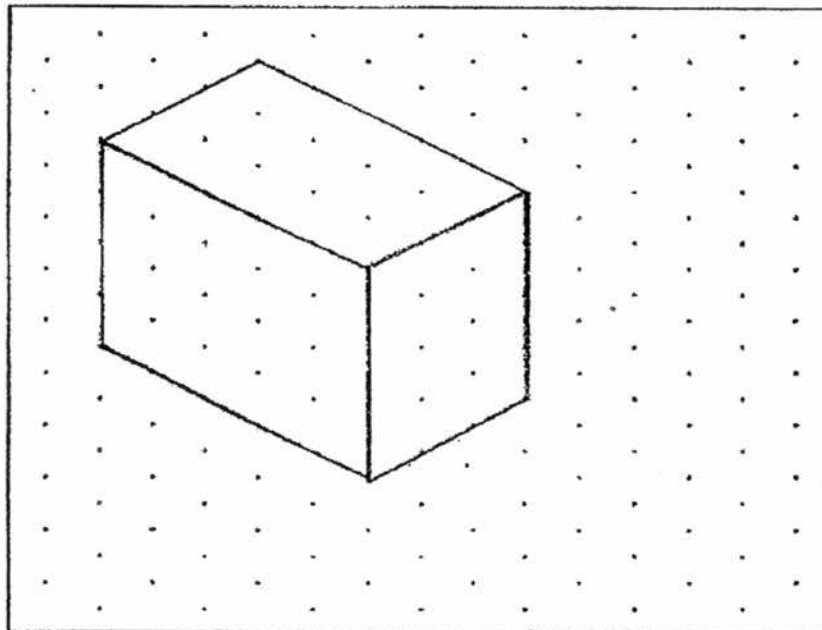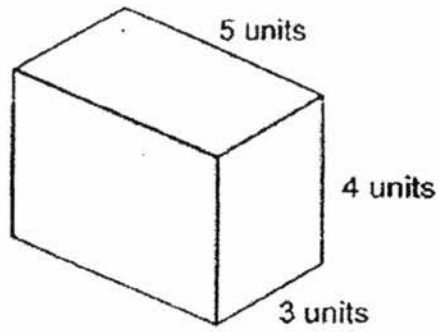17 Find the value of $27 \div (9 - 3 \times 2) + 4$.

Ans: _____

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18 Round 285 695 to the nearest hundred.

Ans: _____

---

19 Find the value of $56.63 \div 7$.

Ans: _____

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

5 units

4 units

3 units

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   At first, Ismail had a total of 167 stamps from Singapore and Malaysia. After his father gave him 183 stamps from Singapore. the number of stamps from Singapore was 9 times the number of stamps from Malaysia. How many stamps from Malaysia did he have at first?

Ans: _____

22   Five identical pizzas were shared equally among 45 children. What fraction of a pizza did each child get? Give your answer as a fraction in the simplest form.

Ans: _____

23 Ahmad spent $\frac{7}{12}$ of his salary on food and spent $\frac{3}{10}$ of the remaining salary on transport. What fraction of his salary did he spend on transport? Give your answer as a fraction in the simplest form.

Ans: _____

24 A container was filled with 9.6 litres of syrup. All the syrup from the container was poured into 300 small bottles. Each bottle contained an equal amount of syrup. What was the amount of syrup in each small bottle?

Ans: _____

25   Bernice had 6.4 kg of flour and used 1.39 kg of it to bake some cakes. How much of the flour was left?   Give your answer in grams.

Ans: _____ g .

---

26   The total cost of 2 identical shirts and 3 identical blouses is $124.55. The total cost 3 such shirts and 2 such blouses is $96.45.   What is the total cost of 1 such shirt and 1 such blouse?

Ans: $_____

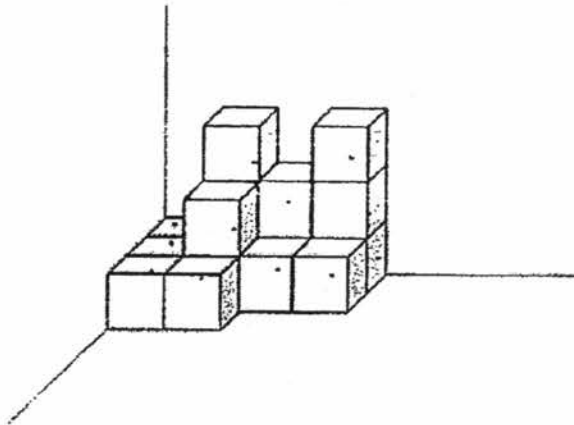**27** In the figure below, ABE is a triangle and ABCD is a square.
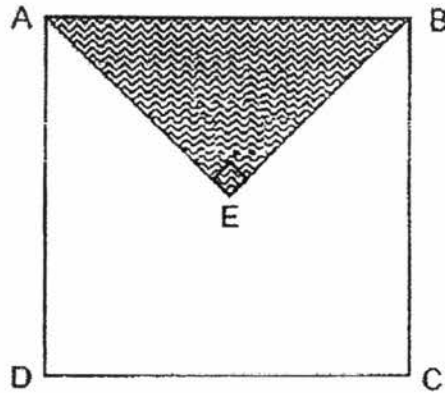
Given that the area of triangle ABE is 16 cm² and point E is the centre of the square, find the length of BC.

Ans: _____ cm

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28 Find the volume of a cuboid measuring 100 cm by 40 cm by 70 cm.

Ans: _____ cm³

---

29 The solid below was built using unit cubes.

How many unit cubes was used to build the solid?

Ans: _____

---

30 Wei Sheng used 18 litres of water to fill an empty tank to $\frac{1}{5}$ of its height. How many more litres of water does he need to fill the tank to the brim?

Ans: _____

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2017

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 30 MINUTES

Paper 2 Total	/ 55
GRAND TOTAL	/ 100

Name:_____ (   )

Class: Primary 5 (   )

Date: <u>3 May 2017</u>

Any query on marks awarded should be raised by <u>18 May 2017</u>. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

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PAPER 2

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 number of pupils in the soccer club was 4 times as many as the number of pupils in the golf club.   After an equal number of pupils joined each club, there were 30 pupils in the golf club. The number of pupils in the soccer club also became twice the number of pupils in the golf club. How many pupils joined the golf club?

Ans: _____

2   Phoebe drank $6\frac{3}{8}$ litres of water. Claire drank $4\frac{5}{6}$ litres of water.

How many litres of water did both girls drink altogether?   Give your answer as a mixed number in the simplest form.

Ans: _____ l

1

3   The rectangle below is made up of triangles ABF, BCF, CDF and ADF.
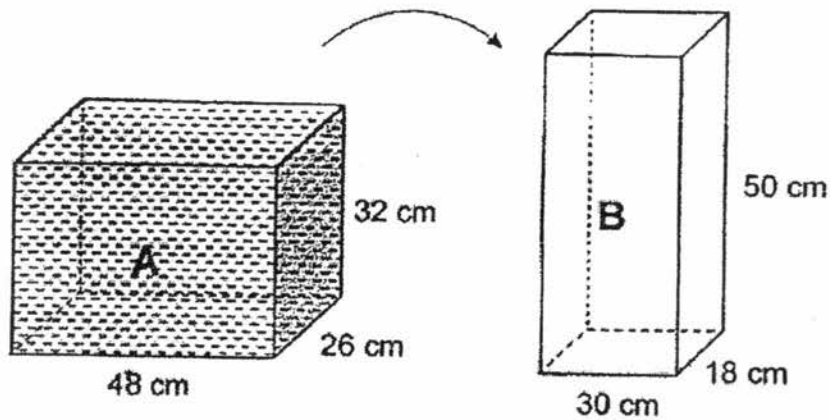   The length of the DC is 98 cm and the length of BC is 54 cm.
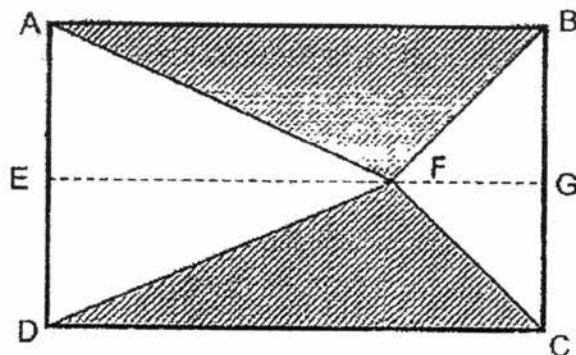
Given that AE = ED = BG = GC, find the total area of the shaded parts.

Ans: _____ cm²

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4   Find the difference in the volume between a 9-cm cube and a 7-cm cube.

Ans: _____ cm³

2

5   Tank A, measuring 48 cm by 26 cm by 32 cm was completely filled with water at first.   Leena poured some water from tank A into an empty tank B and filled tank B to the brim.

Find the volume of water left in tank A.

Ans: _____ cm³

For questions 6 to 17, show your working clearly in the space provided for 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   The breadth of a rectangle is $\frac{9}{5}$ m. Its length is $\frac{2}{3}$ m longer than its breadth.

(a) What is the length of the rectangle? Give your answer as an improper fraction.

(b) What is the area of the rectangle? Give your answer as a mixed number in the simplest form.

Ans: (a) _____ [1]

(b) _____ [2]

7   A tailor used $2\frac{3}{8}$ m of cloth to make each blouse and used twice as much cloth to make each dress. How much cloth did the tailor use to make 3 blouses and 2 dresses? Give your answer as a mixed number in its simplest form.

Ans: _____ [3]

8   Mr Vik bought some bottles of water at $0.90 each and 12 bottles of fruit juice at $2.30 each. His sister bought the same number of bottles of water as him but at $0.50 each. She also bought 12 bottles of fruit juice at $3 each. They spent the same amount of money. How many bottles of water did Mr Vik buy?
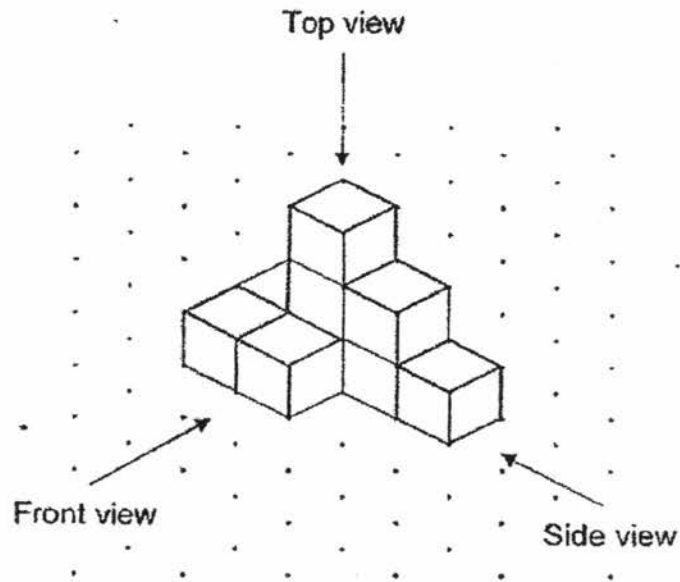
Ans: _____ [3]

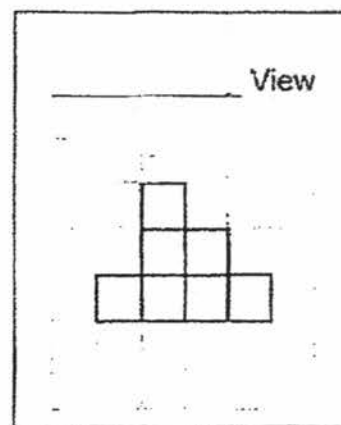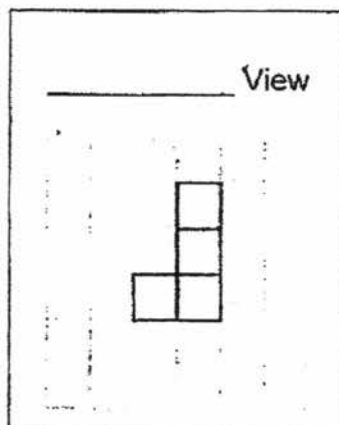9   In the figure below, the rectangle ABCD is made up of 4 triangles, AED, DEF, EFB and BFC.
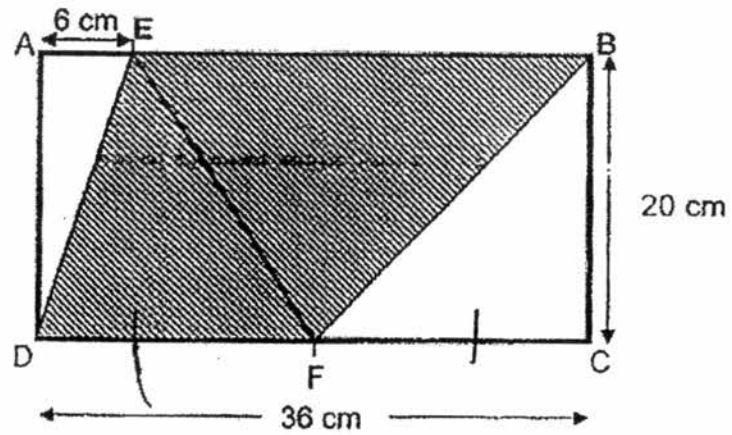
Given that DF = FC, find the shaded area.

10 The solid below is built with unit cubes.

Top view

Front view

Side view

The front view, top view and side view of the solid are drawn in the square grid below.   Fill in the blanks with Front, Top or Side.

_____ View

_____ View

_____ View

[3]
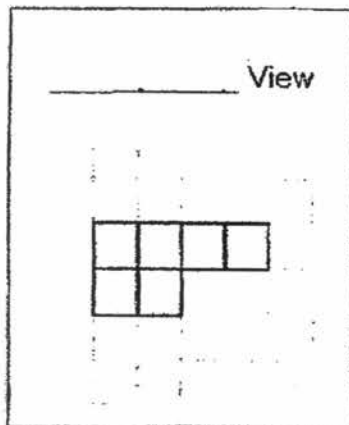
11 Angela han 3 times as many stickers as Susan at first. Angela then gave 60 stickers to Susan and bought another 18 stickers, Susan bought some stickers for herself after receiving stickers from Angela Susan then had twice as many stickers as Angela Susan had 288 sticker in the end. How many stickers did Susan buy ?

Ans: _____ [4]

12   Mr Tay had fewer than 14 packets of chocolates.   Each packet
     contained 15 pieces of chocolates.   He gave away a few packets to his
     friends before giving an equal number of pieces of chocolates to each of
     his 38 pupils.   He had 6 pieces of chocolates left for himself.   What was
     the greatest number of packets of chocolates he gave to his friends?

                                             Ans: _____ [4]

13. In a library $\frac{3}{5}$ of the books were English books and $\frac{3}{8}$ of the remaining books were Chinese books. The rest were Malay books. There were 133 more English books than Malay books in the library. How many books were there in the library altogether?

Ans: _____ [4]

14   After Raju spent $\frac{5}{8}$ of his money, Mohan spent $\frac{4}{7}$ of his money and

Thomas spent $240, each of them had the same amount of money left.
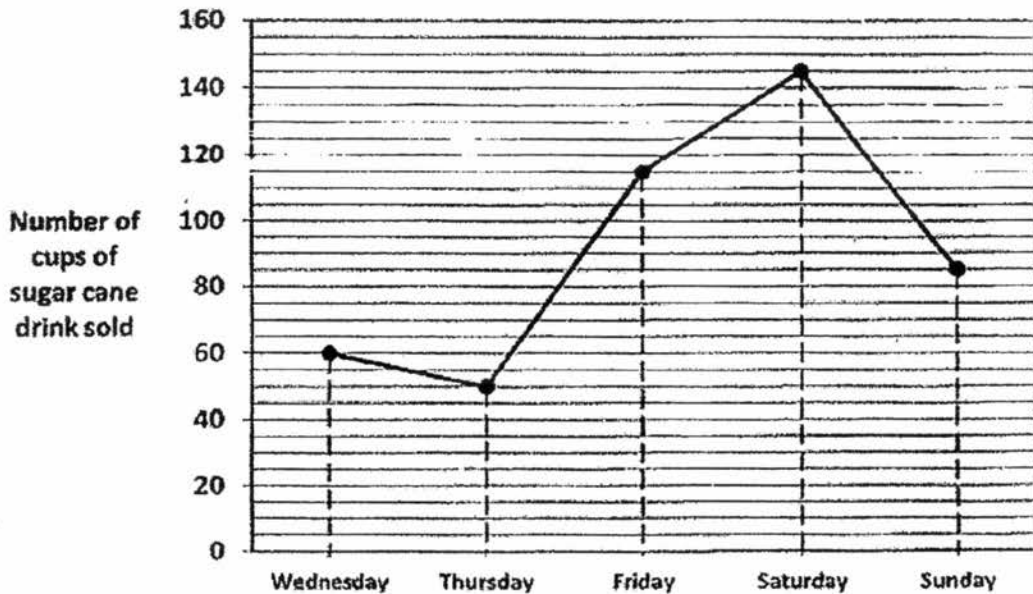
Raju had $550 more than Mohan at first.

(a) How much money did Raju have at first?

(b) How much money did the 3 of them have at first?

Ans: (a) _____ [2]

(b) _____ [2]

15   The line graph below shows the number of cups of sugar cane drink sold each day by Mr Tan from Wednesday to Sunday.

(a) Mr Tan sold his drink at $1.50 each from Monday to Friday. How much money did he collect from the sale of the drink on Wednesday and Thursday in all?

(b) Mr Tan sold his drink at $2 each on Saturday and Sunday. How much more money did he collect from the sale of the drink on Saturday than on Sunday?

Ans: (a) _____ [2]

(b) _____ [2]

16   The total cost of 8 identical thumbdrives and 6 identical pairs of earphones was $460. The total cost of 2 such thumbdrives and 3 such pairs of earphones was $154.

(a)   How much did a pair of earphone cost?

(b)   Osman had $100. At most, how many of such pairs of earphones could he buy with $100?

Ans: (a) _____ [3]

(b) _____ [2]

17   Willy, Xavier, Yannis and Zachary shared $690. Yannis received $\frac{1}{5}$ of

the money.   Willy received $\frac{1}{5}$ of the total money received by Xavier and

Zachary.   Xavier received $\frac{9}{11}$ as much money as Zachary.

(a) How much money did Willy receive?

(b) How much less money did Yannis receive than Xavier?

Ans: (a) _____ [2]

(b) _____ [3]

END OF PAPER

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

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
3	1	3	2	1

PAPER 1 BOOKLET B

Q16)	8 702 092
Q17)	13
Q18)	285 700
Q19)	8.09
Q20)	-
Q21)	10U → 167 + 183 = 350 1 U → 350 ÷ 10 = **35**
Q22)	5 ÷ 45 = 5/45 = **1/9**
Q23)	1 – 7/12 = 5/12 3/10 x 5/12 = **1/8**
Q24)	9.6 ÷ 300 = 9.6 ÷ 100 ÷ 3 = 0.096 ÷ 3 = **0.032**
Q25)	6.4 – 1.39 = 5.01 5.01 x 1000 = **5010**
Q26)	2S + 3B → $124.55

	3S + 2B → $ 96.45 6S + 9B → $373.65 6S + 4B → $192.90 5B → $373.65 - $192.90 = $180.75 1B → $180.75 ÷ 5 = $36.15 2B → $72.30 3S → $96.45 - $72.30 = $24.15 1S → $24.15 ÷ 3 = $8.05 1B + 1S → $36.15 + $8.05 = **$44.20**
Q27)	16 x 4 = 64 64 ÷ 8 = **8**
Q28)	100 x 40 x 70 → **280 000**
Q29)	Total = 10 + 4 + 2 = **16**
Q30)	5 - 1 = 4 18 x 4 = **72**

PAPER 2

Q1)	½ of the soccer → 3U (golf) 3U → 30 1U → 10 2U → **20**
Q2)	$6 \frac{3}{8} + 4 \frac{5}{6} = 11 \frac{5}{24}$
Q3)	BG → 54 ÷ 2 = 27 Half of rect ABEG → ½ x 98 x 27 = 1323 2.5 of rect ABEG → 1323 x 2 = **2646**
4)	9 x 9 x 9 = 729 7 x 7 x 7 = 343 729 – 343 = **386**
Q5)	Vol. of A → 32 x 26 x 48 = 39936 Vol. of B → 50 x 18 x 30 = 27000 Difference → 39936 – 27000 = **12936**
Q6)	a) $\frac{9}{5} + \frac{2}{3} = \frac{37}{15}$ Ans : $\frac{37}{15}$ m b) $\frac{9}{5} \times \frac{37}{15} = 4 \frac{11}{25}$ Ans : $4 \frac{11}{25}$ m²

Q7)	1B → 1U 1D → 2U 3B → 3U 2D → 4U $2\frac{3}{8} \times 3 = 7\frac{1}{8}$ $4\frac{3}{4} \times 2 = 9\frac{1}{2}$ $7\frac{1}{8} + 9\frac{1}{2} = 16\frac{5}{8}$ Ans : $16\frac{5}{8}$ m
Q8)	$12 \times \$2.30 = \$27.60$ $12 \times \$3 = \$36$ $\$0.90 - \$0.50 = \$0.40$ $\$36 - \$27.60 = \$8.40$ $\$8.40 \div \$0.40 = \mathbf{21}$
Q9)	EB → 36 cm – 6cm = 30 cm Area of Triangle EBF → ½ x 30 cm x 20 cm = 300 cm² DF → 36 cm ÷ 2 cm = 18 cm Area of Triangle DEF →½ x 18cm x 20 cm = 180 cm² Shaded area → 180 cm² + 300 cm² = **480 cm²**
Q10)	Top View Side View Front View
Q11)	288 ÷ 2 = 144 (At first) 3U → 144 – 18 + 60 = 186 1U → 186 ÷ 3 = 62 288 – 122 = **166**

Q12) Max number of chocolates can only be 13 x 15 = 195

38 Pupils	+6 pcs left	No. of packets
38 x 3 = 114	114 + 6 = 120	120 ÷ 15 = 8
38 x 4 = 152	152 + 6 = 158	158 ÷ 15 = 10 8/15 X
38 x 5 = 190	190 + 6 = 196 X	

13 – 8 = 5 **(Ans)**

Q13)	$1 - 3/5 = 2/5$ $3/8 \times 2/5 = 3/20$ $2/5 - 3/20 = ¼$ $3/5 - ¼ = 7/20$ (→ 133) $1/20$ → $133 ÷ 7 = 19$ $20/20$ → $19 \times 20 = $ **380**
Q14)	$1 - \frac{5}{8} = \frac{3}{8}$ $1 - \frac{4}{7} = \frac{3}{7}$ (a) $8 - 7 = 1$ 　$1U$ → $550 　(R) $8U$ → $550 \times 8 = $ **$4 400** (b) (M) $7U$ → $550 \times 7 = $3 850 　Left → $550 \times 3 = $ 1650 　T → $1650 + $240 = $1890 　$4400 + $3850 + $1890 = **$10140**
Q15)	(a) $60 \times $1.50 = $90 　$50 \times $1.50 = $75 　$90 + $75 = **$165** (b) $145 \times $2 = $290 　$85 \times $2 = $170 　$290 - $170 = **$120**
Q16)	$8 TD + 6E$ → $460 $2 TD + 3E$ → $154 $8 TD + 12E$ → $616 $6E$ → $616 - $460 = $156 $1E$ → $156 ÷ 6 = **$26 (Ans)** $100 ÷ $26 = 3 R $22 **Ans : 3**
Q17)	(a) $1/5 \times $690 = $138 　$690 - $138 = $552 　$9U + 11U = 20U$ 　$20 ÷ 5 = 4$ 　$20 + 4 = 24$ 　$1U$ → $552 ÷ 24 = $23 　(W) $4U$ → $23 \times 4 = **$92** (b) $9U$ → $23 \times 9 = S207 　$207 - $138 = **$69**