NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2015

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	**/ 20**
Booklet B	**/ 20**

Paper 1 Total: / 40

Name: _____

Class: Primary 5 ( )

Date: 11 May 2015

Any query on marks awarded should be raised by **21 May 2015**. 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: _____

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ANSWER ALL QUESTIONS.

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PAPER 1 (BOOKLET A)

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 Which one of the following is seven million, four hundred and sixty-seven thousand and twenty-two?

(1) 7 000 489

(2) 7 067 422

(3) 7 467 022

(4) 7 467 220

2 Find the value of $12 + (85 - 25) \div 6 \times 10$.

(1) 13

(2) 112

(3) 120

(4) 220

3 Which of these pairs of fractions are equivalent fractions?

1) $\frac{1}{2}$ and $\frac{1}{4}$

2) $\frac{1}{3}$ and $\frac{2}{6}$

3) $\frac{1}{4}$ and $\frac{5}{8}$

4) $\frac{4}{5}$ and $\frac{2}{10}$

4 Arrange the following fractions in descending order.

$$\frac{2}{3}, \frac{5}{6}, \frac{3}{10}$$

(1) $\frac{3}{10}, \frac{2}{3}, \frac{5}{6}$

(2) $\frac{3}{10}, \frac{5}{6}, \frac{2}{3}$

(3) $\frac{5}{6}, \frac{3}{10}, \frac{2}{3}$

(4) $\frac{5}{6}, \frac{2}{3}, \frac{3}{10}$

5 Express $\frac{5}{4}$ as a decimal.

(1) 0.125

(2) 0.8

(3) 1.25

(4) 12.5

6 Find the value of $\frac{7}{12} - \frac{2}{5}$.

(1) $\frac{11}{60}$

(2) $\frac{5}{12}$

(3) $\frac{5}{7}$

(4) $\frac{59}{60}$

7 Find the product of 2 and $\frac{9}{7}$.

(1) $\frac{9}{14}$

(2) $1\frac{2}{7}$

(3) $2\frac{4}{7}$

(4) $3\frac{2}{7}$

8 Express 103 thousandths as a decimal.

(1) 0.103

(2) 1.03

(3) 1.030

(4) 10.3

9 Express 0.04 as a fraction in its simplest form.

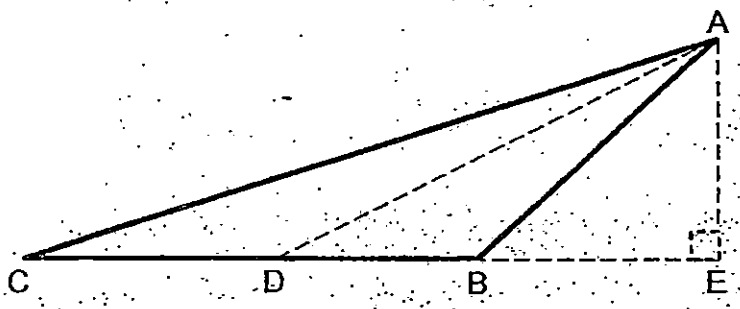
(1) $\frac{1}{20}$

(2) $\frac{2}{5}$

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

(4) $\frac{1}{250}$

10 What is the base of triangle ABC given that its height is AE?



(1) BE

(2) CB

(3) CE

(4) DB

11 Which one of the following gives the greatest value?

(1) 450×10

(2) 400×100

(3) $500\,000 \div 10$

(4) $550\,000 \div 100$

12 Mrs Osman had $\frac{1}{2}$ kg of coffee powder. She gave $\frac{1}{4}$ of it to her neighbour. What was the mass of the coffee powder that she gave to her neighbour?

(1) $\frac{1}{8}$ kg

(2) $\frac{1}{4}$ kg

(3) $\frac{2}{6}$ kg

(4) $\frac{1}{2}$ kg

13 The perimeter of a square tile is $\frac{8}{9}$ m. What is the length of each side of the tile?

(1) $\frac{2}{9}$ m

(2) $\frac{9}{13}$ m

(3) $\frac{32}{36}$ m

(4) $\frac{32}{9}$ m

14 The length of a string is 8.25 m. The length of a ribbon is 0.7 m shorter than the length of the string. Find the length of the ribbon.

(1) 7.45 m

(2) 7.55 m

(3) 8.18 m

(4) 8.95 m

15 A total of 44 pupils participated in a team challenge. The teacher gave each girl 3 candies and each boy 1 candy. The teacher gave out a total of 96 candies to all the pupils. How many girls participated in the team challenge?

(1) 12

(2) 18

(3) 20

(4) 26

Name: _____ ( ) Class: Pr 5 ( )

PAPER 1 (BOOKLET B)

Questions **16** to **25** carry 1 mark each. 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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16 Round off 3 469 902 to the nearest thousand.

Ans: _____

---

17 Find the value of 348 × 76.

Ans: _____

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18 Find the value of 487 000 ÷ 10 ÷ 100.

Ans: _____

---

19 Find the value of $48 - 36 \div 3 \times 4 + 9$.

Ans: _____

---

20 Jayden painted $\frac{2}{3}$ of a wall white. He then painted $\frac{1}{6}$ of the remaining part of the wall blue. What fraction of the wall is painted blue?

_____

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21 Find the product of $\frac{2}{3}$ and $\frac{5}{6}$.

Give your answer as a fraction in its simplest form.

Ans: _____

---

22 Find the value of $\frac{9}{10} \div 3$.

Give your answer as a fraction in its simplest form.

Ans: _____

---

23 Find the value of $24.08 \div 4$.

Give your answer as a decimal.

Ans: _____

---

24 What is 425 ml in litres?

Ans: _____ *l*

---

25 Round off 8.285 to 2 decimal places.

Ans: _____

Questions **26** 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.

(10 marks)

26 Find the difference between 654 876 and 279 745 by first rounding off the numbers to the nearest hundred.

Ans: _____

27 $\boxed{\ ?\ } \times 134.8 = 67.4 \times 200$.

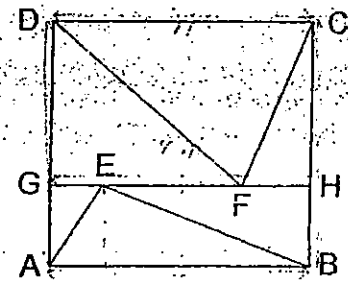
What is the missing number in the box?

Ans: _____

28 Four identical tins of milk powder cost a total of $110.40. Bala had $15.20 left after paying for 8 such tins. How much money did he have at first?

Ans: $_____

29 In the figure below, ABCD is a square of length 8 cm. Line DC is parallel to line GH. Point E and point F lie on the line GH. What is the total area of the shaded parts?



Ans: _____ cm²

30 How many times does the digit 2 appear in the numbers from 1 to 30?

Ans: _____

END OF PAPER

NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION 2015

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	**/ 60**
GRAND TOTAL	**/ 100**

Name: _____ ( )

Class: Primary 5 ( )

Date: 11 May 2015

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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)

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1 Insert a pair of brackets to make the number sentence below true.

$$12 + 36 \div 3 + 6 \times 2 = 20$$

---

2 Sally packed a total of 2868 pens into Box A, Box B and Box C at first. She then moved 257 pens from Box A to Box B. As a result, there was an equal number of pens in each box. How many pens did Sally pack in Box A at first?

Ans: _____

---

3 Peter jogged a distance of $45\frac{3}{8}$ km. Desmond jogged $10\frac{1}{4}$ km less than Peter. How far did they jog altogether? Give your answer as a mixed number in its simplest form.

Ans: _____ km

---

4 There was some lime juice in a jug at first. Gopal poured out $2\frac{1}{6}$ l of lime juice from the jug. After that, Amy poured $1\frac{3}{4}$ l of lime juice into the jug. There were $5\frac{1}{12}$ l of lime juice left in the jug. How much lime juice was in the jug at first? Give your answer as a mixed number in its simplest form.

Ans: _____ l

---

5 Jenny had to run a distance of 42.195 km. After she had run 19 920 m, how many more kilometres had she left to run?- Give your answer correct to 2 decimal places.

Ans: _____ km

For questions **6** to **18**, 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.

(50 marks)

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6 Mrs Zeng had $12\frac{5}{9}$ kg of rice. Mrs Wang had 3 times as much rice as Mrs Zeng. How many kilograms of rice did they have altogether?
Give your answer as a mixed number in its simplest form.

Ans: _____ [3]

---

7 A tap fills 14 identical containers in 7 hours. At this rate, how many minutes does the tap take to fill $\frac{4}{5}$ of such a container?

Ans: _____ [3]

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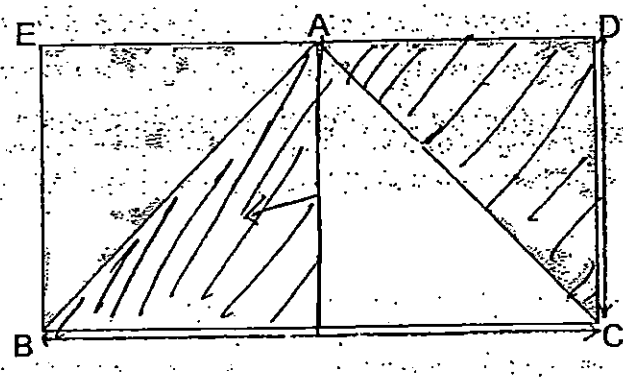
8 In the figure below, BCDE is a rectangle and ABC is a triangle. The length of BC is 10 cm and the length of DC is 6 cm.



(a) Name the height of triangle ABC given that its base is BC.

(b) Find the total area of the shaded parts.

Ans: (a) _____ [1]

(b) _____ [2]

9 A concert ticket was priced at $17. For every 8 tickets purchased, 3 additional tickets were given free. Find the total cost of tickets for a group of 213 people.

Ans: _____ [3]

10 Raju had some money. On Monday, he spent $\frac{1}{3}$ of his money on a pair of jeans and $43.65 on a jacket. On Tuesday he received $40 from his mother. He then spent $135 to buy a watch and had $49.75 left in the end. How much did the pair of jeans cost?

Ans: _____ [3]

11 Kumar had a total of 1030 red, white and yellow roses at first. After he sold 56 red roses, the number of yellow roses was 4 times the number of red roses left unsold. After he sold 44 white roses, the number of yellow roses was 30 fewer than the number of white roses left unsold. Kumar did not sell any yellow roses. How many yellow roses did he have?

Ans: _____ [4]

12 Mr Chew had a total of 350 fish balls and fish cakes. After selling $\frac{1}{7}$ of the fish cakes and 80 fish balls, he had $\frac{1}{3}$ as many fish balls as fish cakes left. How many fish balls did he have at first?

Ans: _____ [4]

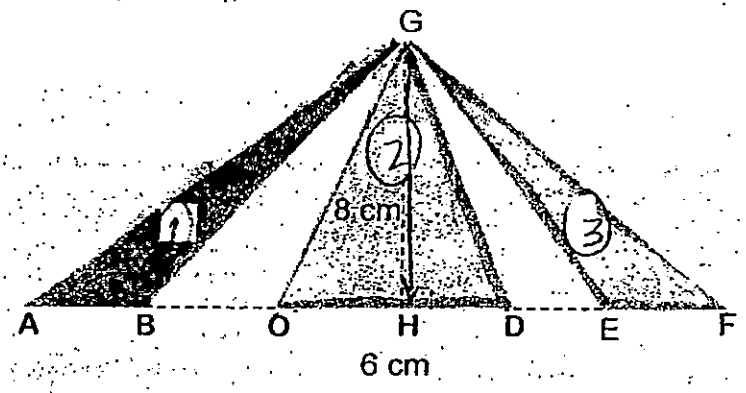
13 Bob bought 2.4 kg of grapes, 5 kg of lychees and 15 apples. He paid $41.90 for the fruits altogether. Find the cost of the 5 kg of lychees.

3 apples for $1

200 g of grapes for $1.20

Ans: _____ [4]

14 In the figure below, GAB, GCD and GEF are triangles. Points A, B, C, H, D, E and F lie on a straight line. Triangle GAB and triangle GEF have the same area. The length of CD is 6 cm. The length of AB is $\frac{2}{3}$ the length of CD. The length of GH is 8 cm. Find the total area of triangles GAB, GCD and GEF.



Ans: _____ [4]

15 At first, Samantha had 54 cards more than Cory. After Cory gave 23 cards to Samantha, Samantha had thrice as many cards as Cory. How many cards did Samantha have at first?

Ans: _____ [4]

16 The total mass of 20 identical textbooks and 18 identical dictionaries is 26.68 kg. Each dictionary is 4 times as heavy as a textbook. What is the difference in mass between a dictionary and a textbook? Give your answer in grams.

Ans: _____ [5]

17 Sally had some money at first. She gave $\frac{1}{5}$ of her money to her father. She spent $\frac{5}{8}$ of her remaining money on food and transport. The amount of money she spent on transport was $\frac{1}{4}$ the amount of money she spent on food. She then had $1650 left.

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

(b) How much more money did she spend on food than on transport?

Ans: (a) _____ [3]

(b) _____ [2]

18 The cost of each stapler is $0.20 more than the cost of each pen. Each pen costs twice as much as each pencil. The total cost of 5 such staplers, 4 such pens and 2 such pencils is $1.80 more than the total cost of 4 such staplers, 2 such pens and 4 such pencils. Find the cost of each pen.

Ans: _____ [5]

END OF PAPER

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : MATH
TERM : SA1

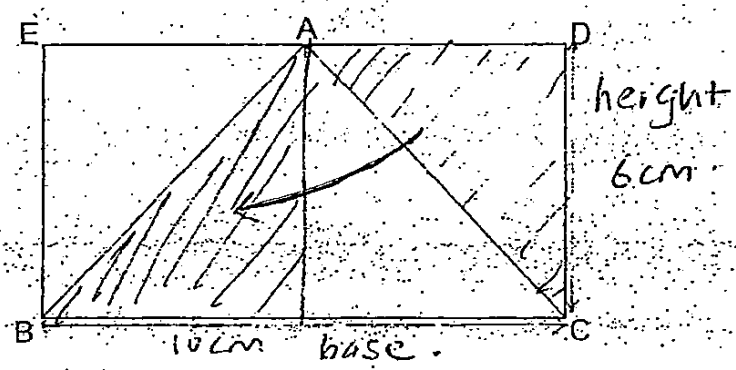
Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q 8	Q9	Q 10
3	2	2	4	3	1	3	1	3	2
Q 11	Q 12	Q 13	Q 14	Q 15					
3	1	1	2	4					

Q16. 3 470 000
Q17. 26 448
Q18. 487
Q19. 9 → 48 – (36 ÷ 3) x 4 + 9, 48 – (12 x 4) + 9 , 48 – 48+9 = 9
Q20. $\frac{1}{18}$ → ⅓ x ⅙ = $\frac{1}{18}$
Q21. $\frac{5}{9}$ → $\frac{2}{3} x \frac{5}{6} = \frac{10}{18} = \frac{5}{9}$
Q22. $\frac{3}{10}$ → $\frac{9}{10} \div 3 = \frac{3}{10}$
Q23. 6.02
Q24. 0.425 → 425ml = 0.425litre
Q25. 8.29 → 8.285 ≈ 8.29
Q26. 375 200 → 654 876 ≈ 654 900, 279 745 ≈ 279 700, 654 900 – 279 700 = 375 200.
Q27. 100 → 67.4 x 2 = 134.8, 134.8 x 100 = 13480, 100 x 134.8 = 13480.
Q28. $236 → $110.40 x 2 = $220.80, $220.80 + 15.20 = $236.
Q29. 32cm² → Area of the square → 8cm x 8cm = 64cm², ½ x 8cm x 8cm = 32cm²
Q30. 13.

PAPER 2

Q1. 20 → 12 + 36 ÷ (3 +6) x 2 = 20
Q2. 1213 → 2868 ÷ 3 = 956 , 956 + 257 = 1213
Q3. $80\frac{1}{2}$ km → Desmond → $45\frac{3}{8} - 10\frac{1}{4} = 35\frac{1}{8}$, Peter + Desmond → $35\frac{1}{8} + 45\frac{3}{8} = 80\frac{1}{2}$.
Q4. $5\frac{1}{2}$ *litre* → $5\frac{1}{12} - 1\frac{3}{4} + 2\frac{1}{6} = \frac{61}{12} - \frac{7}{4} x 3 + \frac{13}{6} x 2 = \frac{61}{12} - \frac{21}{12} + \frac{26}{12} = \frac{66}{12} = 5\frac{6}{12} = 5\frac{1}{2}$
Q5. 22.28 → 42.195km – 19.920km = 22.275km ≈ 22.28km
Q6. $50\frac{2}{9}$kg → Mrs Zeng → $12\frac{5}{9}$, *mrs Wang* → $12\frac{5}{9} x 3 = 37\frac{2}{3}$, $12\frac{5}{9} + 37\frac{2}{3} = 50\frac{2}{9} kg$

Q7. 24min → 7 hours = 420mins, 14 containers (÷ 14) → 420min (÷14) = 1 container → 30min,
$\frac{1}{5}$ of container → 6 min , ⅕ of container → 24mins.
Q8a. CD → SEE PICTURE



Q8b. 30cm² → 10cm x 6cm =60cm², 60cm² ÷ 2 = 30cm²
Q9. $2652 → 1 CT → $17, 213 – 209 = 4, 152 x $17 = $2584, 4 x $17 =$68, $2584 + 68 = $2652
Q10. $94.20 → $49.75 – $40 = $9.75, $9.75 + 43.65 + 135 = $188.40, $188.40 ÷ 2 = $94.20
Q11. 400 → 1030–56 = 974, 974 –44 = 930, 930 – 30 =900, 900÷9 = 100, 100 x 4 = 400
Q12. 140 → 350 –80 = 270, 270÷ 9 = 30 ; 30 x2 = 60, 60 + 80 = 140

Q13. $22.50 → 2.4kg → 2400g, 2400g ÷ 200g = 12, 12 x $1.20 = $14.40, 3 apples → $1; 15 apples → $5, $14.40 + 5 = $19.40, $41.90 – $19.40 = $22.50.

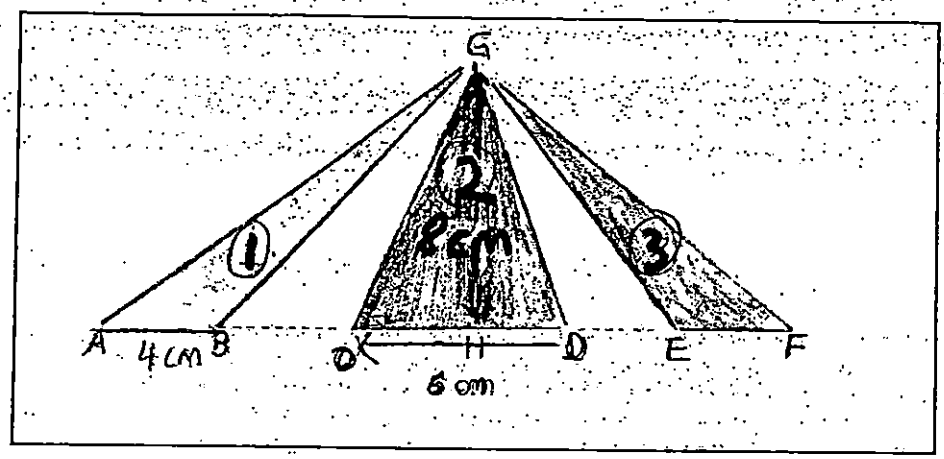
Q14. 56cm² → SEE PICTURE

AB → 6cm ÷ 3 = 3cm, 2cm x 2 = 4cm

Area of 1 → ½ x 4cm x 8cm = 16cm²,

Area of 2 → ½ x 6 cm x 8cm = 24cm²,

Area of 3 → 16cm²16cm² + 24cm² + 16cm² = 56cm²



Q15. 127 → 23 + 54 = 23 = 100, 100 ÷ 2 = 50, 50 + 23 + 54 = 127.

Q16. 870g → 18 x 4 = 72, 72+20 = 92, 26.68kg ÷ 92 = 0.29kg, 4 – 1 = 3, 0.29kg x 3 = 0.87kg = 870g

Q17a. $5500 → $1650 ÷ 3 = $550, $550 x 8 = $4400, $4400 ÷ 4 = $1100, $1100 x 5 = $5500

Q17b. $1650 → 4 – 1 = 3, $550 x 3 = $1650.

Q18. $0.80 → $1.80 – $0.20 = $1.6, $1.60 ÷ 4 = $0.40, $0.40 x 2 = $0.80

THE END