TAO NAN SCHOOL 道南学校

SINCERITY & PERSEVERANCE

PRIMARY 5 MID-YEAR EXAMINATION 2014

Name : _____ ( ) Date: 16 May 2014

Class : Primary 5 ( ) Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____ Marks: _____ / 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET A)

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
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 in 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.
(20 marks)

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1. 8 thousands = ☐ hundreds. The missing number in the box is _____.

   (1) 8
   (2) 80
   (3) 800
   (4) 8 000

2. Which one of the following is 74 300 when rounded off to the nearest hundred?

   (1) 74 353
   (2) 74 308
   (3) 74 249
   (4) 74 234

3. The perimeter of a square is 52 cm. Its area is _____.

   (1) 13 cm^2
   (2) 26 cm^2
   (3) 169 cm^2
   (4) 676 cm^2

4. $\frac{1}{2} + \frac{1}{4} =$ _____ quarters

(1) 1

(2) 2

(3) 3

(4) 4

5. The mass of an apple is $\frac{5}{7}$ the mass of a mango. What fraction of the total mass is the mass of the mango?

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

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

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

(4) $\frac{7}{12}$

6. Which of the following is greater than $\frac{5}{8}$?

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

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

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

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

7. In the table below, Mrs Lau recorded the number of stamps her pupils collected in a month?

Number of stamps collected	0	1	2	3	4
Number of pupils	5	10	16	6	3

How many pupils collected at least 2 stamps?

(1) 15

(2) 16

(3) 25

(4) 32

8. Michael bought 10 boxes of strawberries at $4 per kg. Each box contains 2 kg of strawberries. How much did he need to pay for all the strawberries?

(1) $5

(2) $2

(3) $40

(4) $80

9. Su Li has the same number of ten-cent and fifty-cent coins. The total value is $6. How many coins does she have in all?

(1) 10

(2) 20

(3) 36

(4) 60

10. $\frac{4}{5}$ of a number is 40. What is the number?

(1) 50
(2) 32
(3) 10
(4) 8

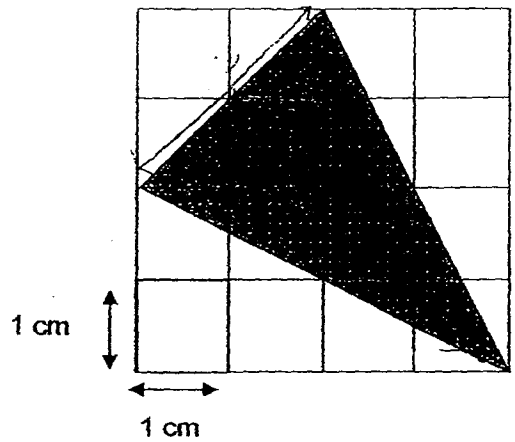
11. For every $3 saved by Susan, her mother would give her another $2 to save. How much did she save on her own if she had a total of $60 in her savings?

(1) $90
(2) $12
(3) $36
(4) $40

12. Su Yin had an equal number of red and blue pins. She gave away 26 red pins and bought another 38 blue pins. The number of red pins becomes $\frac{1}{2}$ the number of blue pins. How many red pins did she have at first?

(1) 32
(2) 52
(3) 64
(4) 90

13. What is the area of the shaded triangle shown?



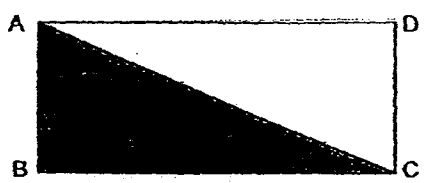
(1) 6 cm^2

(2) 10 cm^2

(3) 3 cm^2

(4) 4 cm^2

14. The perimeter of rectangle ABCD is 60 cm. If the length of the rectangle is twice its breadth, what is the area of the shaded triangle ABC?



(1) 100 cm^2

(2) 200 cm^2

(3) 900 cm^2

(4) 3600 cm^2

15. Aiden spent 4 days making paper airplanes. Each day, he managed to make 2 more paper airplanes than the day before. He made a total of 24 paper airplanes. How many paper airplanes did he make on the first day?

(1) 6
(2) 9
(3) 3
(4) 12

- End of Booklet A -

PRIMARY 5 MID-YEAR EXAMINATION 2014

Name : _____ ( ) Date: 16 May 2014

Class : Primary 5 (Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET B)

20

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **not** allowed to use a calculator.

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 62 816 to the nearest thousand.

Ans: _____

17. What is the value of $(115 + 30 \div 2) - 8 \times 4$?

Ans: _____

18. What is the lowest common multiple of 10 and 12?

Ans: _____

19. $\frac{2}{9} \div 10 = \square$

Ans: _____

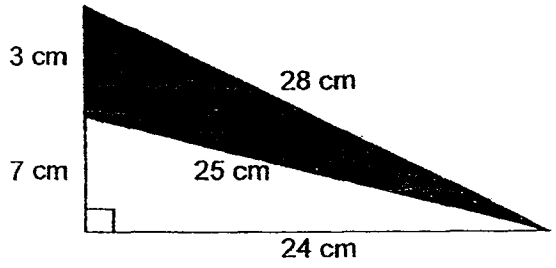
20. Mr Tan went to the bank and changed $50 into 50-cent coins only. How many 50-cent coins did he receive?

Ans: _____

21. $\frac{3}{5} - \frac{1}{4} = \square$

Ans: _____

22. Find the area of the shaded triangle.

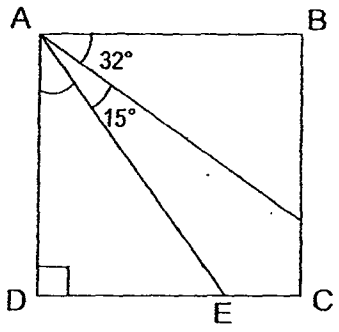


Ans: _____ cm^2

23. Arrange the following fractions in ascending order:

Ans: _____

24. The figure, not drawn to scale, shows a square ABCD. Find $\angle DAE$.



Ans: _____ °

25. What is the perimeter of a rectangle of length $\frac{5}{8}$ m and breadth $\frac{3}{4}$ m? Express your answer as a mixed number in the simplest form.

Ans: _____ m

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)

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26. Mrs Tan distributed a total of 540 pens and pencils to her pupils. Each pupil received 8 pens and 4 pencils. How many pupils were there?

Ans: _____

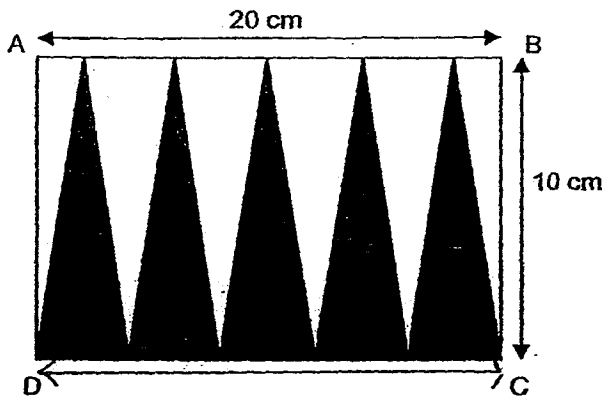
27. Mr Tung is able to cut a piece of rope into 4 pieces of equal length in 12 minutes. How long will it take for him to cut an identical rope into 12 pieces?

Ans: _____ min

28. Alice gave $\frac{4}{5}$ of her stamps to her sister. After her sister had returned 13 of the stamps, Alice had 48 stamps left. How many stamps did Alice have at first?

Ans: _____

29. In the figure below, ABCD is a rectangle measuring 20 cm by 10 cm. Find the shaded area.



Ans: _____ cm^2

30. Study the pattern. Draw the shape that is in the 25th position.

1st 25th

Ans: $_____

-End of Booklet B-

PRIMARY 5 MID-YEAR EXAMINATION 2014

Name : _____( ) Date: 16 May 2014

Class : Primary 5 ( ) Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2

60

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

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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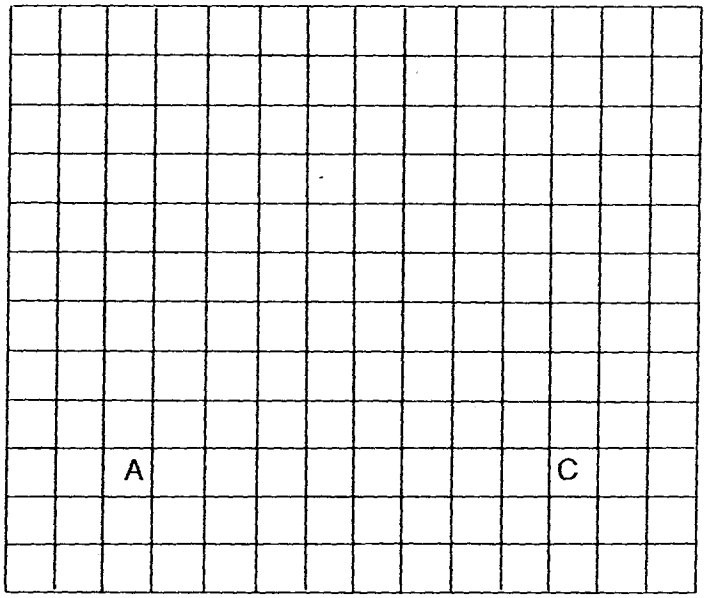
1. Janet is 6 years old. She is $\frac{1}{5}$ of her father's age. How old will her father be in 2 years' time?

Ans: _____

2. There were 600 tiles. For every 4 black tiles, there were 2 white ones. How many white tiles were there?

Ans: _____

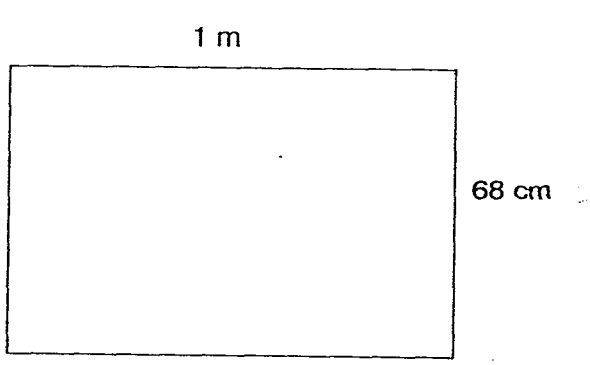
3. In the grid, **draw** a triangle ABC with AB = 5 units, AC = 8 units and $\angle BAC = 90°$. The side AC has been drawn for you.

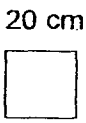


4. The cost of 5 identical blouses and 3 identical shirt is $65. If the cost of a blouse and a shirt is $17, what is the cost of each blouse?

Ans: $ _____

5. A piece of cardboard, 1 m long and 68 cm wide, is cut into squares each of side 20 cm. What is the maximum number of such squares that can be cut from the cardboard?





Ans: _____

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. Alice bought 16 pens at 4 for $2. She then had $10 left. How much money did she have at first?

Ans: _____ [3]

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7. There were a total of 90 apples and oranges in a basket. There were 4 times as many apples as oranges. After some apples were removed, there was an equal number of oranges and apples left. How many apples were removed from the basket?

Ans: _____ [3]

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8. Darren attempted all the 60 questions in a quiz and scored 195 marks. 5 marks were awarded for each correct answer but 2 marks were deducted for each wrong answer. How many questions did Darren answer incorrectly?

Ans: _____ [3]

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9. Alisa sold 168 cupcakes on Monday. She sold $\frac{2}{7}$ of the remainder on Tuesday and had half of her cupcakes left. Find the number of cupcakes she sold altogether.

Ans: _____ [3]

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10. If Renee gave 7 picture cards to each of her friends, she would have 4 cards left. If she gave 8 picture cards, she would be short of 2 cards. How many cards did she have?

Ans: _____ [3]

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11. $\frac{1}{4}$ of Dana's savings is equal to $\frac{2}{5}$ of her sister's savings. The difference in the amount of their savings is $171. What is the total amount of savings that Dana and her sister have?

Ans: _____ [3]

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12. There were 540 adults and some children at a funfair. A total of 6 120 packets of sweets were given away. Each child received 5 packets of sweets and each adult received 3 packets of sweets.

(a) How many children were there?

(b) What fraction of the people were children? Leave your answer in the simplest form.

Ans: (a) _____ [2]

(b) _____ [2]

13. Isaac receives $12 more than Sam for their weekly allowances. Every week, each boy spends $60 and saves the rest of their allowances. After a few weeks, Isaac's savings was $224 and Sam's savings was $140.

(a) How many weeks did Isaac take to save $224?

(b) What was Sam's weekly allowance?

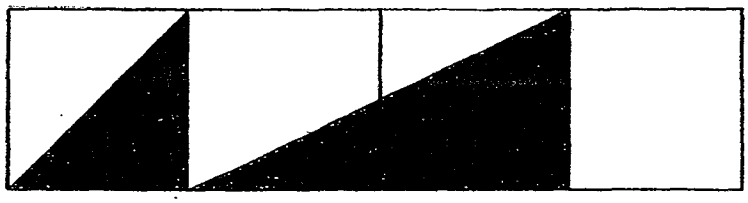
Ans: (a) _____ [2]

(b) _____ [2]

14. The figure, not drawn to scale, is made up of 4 identical squares.

(a) What fraction of the figure is shaded?

(b) Given that the perimeter of the figure is 80 cm, find the shaded area.



Ans: (a) _____ [1]

(b) _____ [3]

15. At a Science competition, $\frac{1}{3}$ of the winners won silver medals. $\frac{4}{5}$ of the remainder won bronze medals while the rest won gold medals. There were 60 more bronze than gold medal winners. How many medal winners were there?

Ans: _____ [5]

16. A box containing 9 identical balls weighed 810g. After 13 such balls were added into the box, the mass of the box and the balls became 1 850g.

a) What is the mass of the box?

b) Given that the mass of the box and the balls has to be less than 1 500g, what is the **least** number of balls that should be removed from the box?

Ans: a)_____ [3]

b) _____ [2]

17. May had a collection of 224 bookmarks. After May threw away 32 bookmarks, June had $\frac{2}{3}$ of what May had left.

a) How many bookmarks did June have at first?

b) If May had given the 32 bookmarks to June instead, what fraction of May's collection was June's?

Ans: a)_____ [2]

b)_____ [3]

18. Three friends, Ruth, Sarah and Teresa shared 864 beads. Ruth gave some of her beads to Sarah and Sarah's beads doubled. Then, Sarah gave some of her beads to Teresa and Teresa's beads doubled. In the end, the 3 girls had an equal number of beads each. How many beads did Ruth have at first?

Ans: _____ [5]

EXAM PAPER 2014
LEVEL : PRIMARY 5
SCHOOL : TAO NAN
SUBJECT : MATHS
TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
2	2	3	3	4	2	3	4	2	1	3	4	1	1	3

Q16 63000

Q17 98

Q18 60

Q19 $\frac{1}{45}$

Q20 100

Q21 $\frac{7}{20}$

Q22 36 cm^2

Q23 $\frac{2}{5}, \frac{1}{2}, \frac{3}{4}, \frac{3}{2}$

Q24 43°

Q25 $2\frac{3}{4}$ m

Q26 45

Q27 44 min

Q28 175

Q29 100cm^2

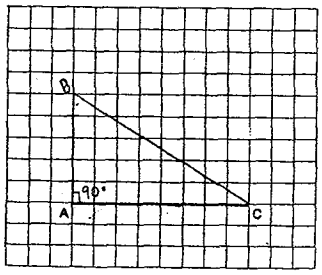
Q30 

Paper 2

Q1 $6 \times 5 = 30$
$30 + 2 = \mathbf{32}$

Q2 $4 + 2 = 6$
$600 \div 6 = 100$
$100 \times 2 = \mathbf{200}$

Q3



Q4

1 blouse + 1 shirt = $17
5 blouses + 5 shirts = $85
5 blouses + 3 shirts = $65
2 shirts → $85 − $65
= $20
1 shirt → $20 ÷ 2
= $10
3 shirts → $10 × 3
= $30
$65 − $30 = $35
1 blouse → $35 ÷ 5
= $7

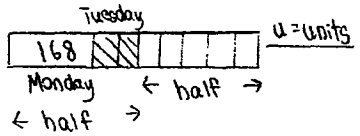
Q5 $100 \div 20 = 5$
$68 \div 20 \approx 3$
$5 \times 3 = \mathbf{15}$

Q6 $16 \div 4 = 4$
$4 \times \$2 = \$8$
$\$8 + \$10 = \mathbf{\$18}$

Q7 $90 \div 5 = 18$
$18 \times 3 = \mathbf{54}$

Q8 $60 \times 5 = 300$
$300 - 195 = 105$
$5 + 2 = 7$
$105 \div 7 = \mathbf{15}$

Q9



u = units

$1 - \frac{2}{7} = \frac{5}{7}$

$5u - 2u = 3u$

$3u \rightarrow 168$

$1u \rightarrow 168 \div 3$

$= 56$

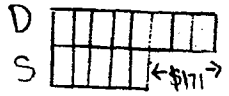
$56 \times 5u = 280$

Q10 $2 + 4 = 6$

$6 \times 7 = 42$

$42 + 4 = \mathbf{46}$

Q11



$\frac{1 \times 2}{4 \times 2} = \frac{2}{8}$

$8 - 5 = 3$

$\$171 \div 3 = \$57$

$8 + 5 = 13$

$\$57 \times 13 = \$741$

Q12 (a) $540 \times 3 = 1620$

$6120 - 1620 = 4500$

$4500 \div 5 = \mathbf{900}$

(b) $900 + 540 = 1440$

$\frac{900}{1440} = \frac{5}{8}$

Q13 (a) $\$224 - \$140 = \$84$

$\$84 \div \$12 = \mathbf{7\ weeks}$

(b) $7 \times \$60 = \$420$

$\$420 + \$224 = \$644$

$\$644 \div 7 = \$92$

$\$92 - \$12 = \mathbf{\$80}$

Q14 (a) $\frac{3}{8}$

(b)

$4 \times 2 = 8$

$1 \times 2 = 2$

$8 + 2 = 10$

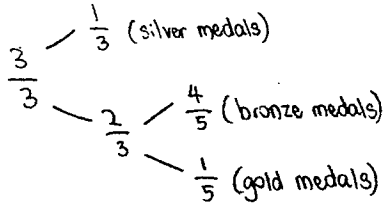
$80\ cm \div 10 = 8cm$

$8cm \times 8cm = 64cm^2$

$64cm^2 \div 2 = 32cm^2$

$32cm^2 \times 3 = 96cm^2$

Q15



$\frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$

$\frac{1}{5} \times \frac{2}{3} = \frac{2}{15}$

$\frac{8}{15} - \frac{1}{15} = \frac{6}{15}$

$60 \div 6 = 10$

$\frac{8}{15} + \frac{2}{15} = \frac{10}{15}$

$10 \times 10 = 100$

$100 \div 2 = 50$

$50 \times 3 = 150$

Q16 (a) 1850g – 810g = 1040g

1040g ÷ 13 = 80g

80g x 9 = 720g

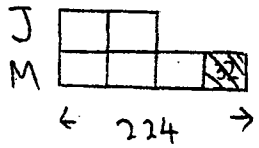
810g – 720g = **90g**

(b) 1850g – 1500g = 350g

350g ÷ 80g = 4.375

≈ 5 balls

Q17



(a)

$224 - 32 = 192$

$192 \div 3 = 64$

$64 \times 2 = 128$

(b)

$128 + 32 = 160$

$\frac{160}{192} = \frac{5}{6}$

Q18

$864 \div 3 = 288$

$288 \div 2 = 144$ (Teresa - at first)

$288 + 144 = 432$

$432 \div 2 = 216$ (Sarah - at first)

$288 + 216 = 504$ (Ruth - at first)