MID-YEAR EXAMINATION 2017
PRIMARY 5
MATHEMATICS

PAPER 1
BOOKLET A

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

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

Name: _____ ( )

Class: Primary 5._____

Date: 5 May 2017

20

This booklet consists of 6 printed pages including this page.

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 the value of the digit 7 in 2 476 592 ?

   (1) 7 x 100
   (2) 70 x 100
   (3) 70 x 1000
   (4) 700 x 1000

2. Find the value of $28 - 5 \times 4 + 84 \div 4$.

   (1) 23
   (2) 29
   (3) 44
   (4) 113

3. A car costs \$140 000 when rounded to the nearest thousand. Which one of the following could be the exact price?

   (1) \$139 400
   (2) \$139 600
   (3) \$140 500
   (4) \$140 900

(Go on to the next page)

4. Express $\frac{27}{6}$ as a mixed number in its simplest form.

(1) $4\frac{1}{6}$

(2) $4\frac{1}{3}$

(3) $4\frac{1}{2}$

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

5. $4 \div 9$ is the same as _____.

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

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

(3) 0.44

(4) 2.25

6. The length of one side of a square is $\frac{2}{3}$ m. Find its perimeter.

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

(2) $\frac{8}{9}$ m

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

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

(Go on to the next page)

7. There are 40 beads in a box. 18 of them are red and the rest are blue. What fraction of the total number of beads in the box is blue?

(1) $\frac{9}{20}$

(2) $\frac{11}{20}$

(3) $\frac{9}{11}$

(4) $\frac{11}{9}$

8. Find the value of $\frac{5}{6} + 1\frac{1}{4}$

(1) $1\frac{1}{12}$

(2) $1\frac{3}{5}$

(3) $1\frac{5}{6}$

(4) $2\frac{1}{12}$

9. Which one of the following fractions is nearest to 1 ?

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

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

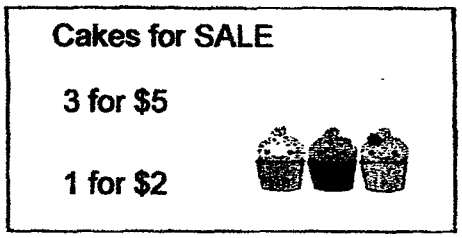
(3) $1\frac{1}{2}$

(4) $1\frac{2}{5}$

10. The ratio of Amy's savings to Mei Ling's savings is 3 : 5. Amy saves $26 less than Mei Ling, how much is Amy's savings?

(1) $13
(2) $26
(3) $39
(4) $66

11. Mary has $48. How many cakes can she buy at most?



(1) 12
(2) 24
(3) 27
(4) 28

12. Box A has 5 more marbles than Box B. When 3 marbles were transferred from Box B to Box A, how many more marbles were there in Box A than Box B in the end?

(1) 3
(2) 5
(3) 8
(4) 11

(Go on to the next page)

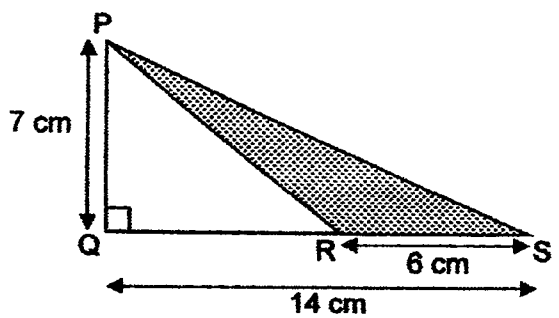
13. There are 24 boys and 48 girls in a reading club.
What is the ratio of the number of girls to the total number of pupils?

(1) 1 : 2
(2) 2 : 1
(3) 1 : 3
(4) 2 : 3

14. Su Ann was given $\frac{1}{3}$ of a pizza and $\frac{1}{4}$ of the remainder was given to Jean.
What fraction of the whole pizza did Jean get?

(1) $\frac{1}{6}$
(2) $\frac{1}{4}$
(3) $\frac{1}{2}$
(4) $\frac{7}{12}$

15. Find the area of the triangle PRS.



(1) 21 cm^2
(2) 28 cm^2
(3) 42 cm^2
(4) 49 cm^2

(Go on to Booklet B)

MID-YEAR EXAMINATION 2017
PRIMARY 5
MATHEMATICS

PAPER 1
BOOKLET B

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

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

Name: _____ ( )

Class: Primary 5._____

Date: 5 May 2017

Parent's Signature :_____

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 25**
Paper 2	**/ 55**
TOTAL	**/ 100**

This booklet consists of 7 printed pages including this page.

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)

Do not write in this space

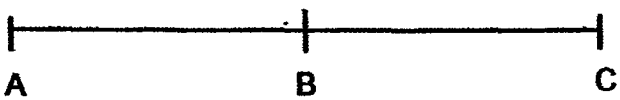
16. Write five hundred and two thousand, one hundred and seven in figures

Ans : _____

17. 480 000 ÷ ☐ = 600. What is the missing number in the box?

Ans : _____

18. Part of the number line is shown below, A represents $\frac{1}{4}$ and B represents $\frac{1}{3}$. AB is equal to BC. What fraction is represented by C?



Ans : _____

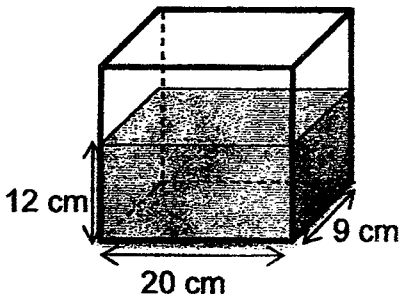
(Go on to the next page)

19. Mrs Tan needs $\frac{3}{5}$ kg of flour to bake some muffins. She has only $\frac{1}{4}$ kg of flour. How much more flour does she need?

Do not write in this space

Ans : _____ kg

20. Find the volume of water in the tank.



Ans : _____ cm^3

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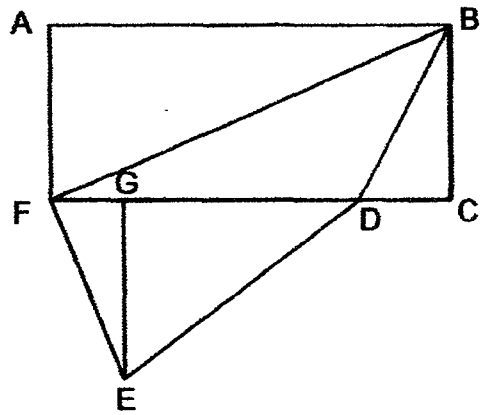
Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

Do not write in this space

21. The volume of water in a jug is $2\frac{2}{7}\ \ell$. What is the total volume of water in 3 such jugs? Give your answer as a mixed number in its simplest form.

Ans : _____ ℓ

22. In the figure below, ABCF is a rectangle and BC = EG.



Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (√) in the correct column.

Statement	True	False	Not possible to tell
The area of Triangle BFD is the same as the area of Triangle FDE.			
The area of Triangle BFD is half of the area of Rectangle ABCF.			

(Go on to the next page)

Do not write in this space

23. Express $\frac{5}{7}$ as a decimal. Give your answer correct to 3 decimal places.

Ans : _____

24. Kassim travelled $\frac{3}{7}$ of a journey by train and $\frac{1}{2}$ of the remaining journey by bus. He was then 1200m away from his destination. What was the distance he travelled by train?

Ans : _____ m

25. Ai Lee had 2 kg of sugar at first. She used $\frac{1}{5}$ kg of sugar to bake a cake and $\frac{5}{8}$ of the remaining sugar to make buns. How much sugar had Ai Lee left?

Ans : _____ kg

(Go on to the next page)

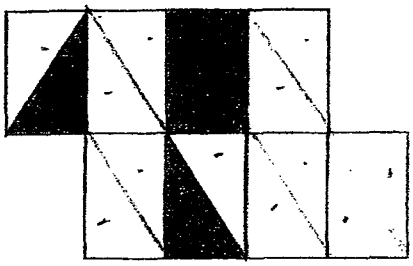
Do not write in this space

26. 8 : 12 = 12 : ☐

What is the missing number in the box?

Ans : _____

27. Find the ratio of the shaded parts to the unshaded parts.



Ans : _____

28. Ali had some stamps. After giving 20 stamps to Samy and 10 stamps to Johnny, Ali had as many stamps as Samy. How many more stamps did Ali have than Samy at first?

Ans : _____

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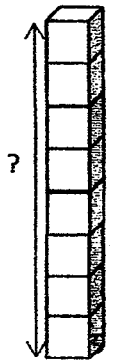
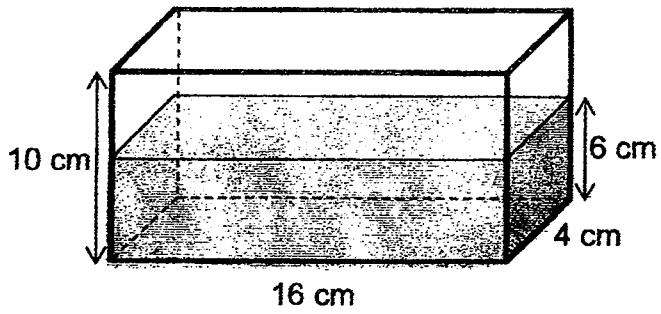
29. The volume of a cube is 125 cm³. If 8 such cubes are stacked one on top of the other as shown below, what is the height of the solid?



Ans : _____ cm

30. The figure below shows a tank measuring 16 cm by 4 cm by 10 cm. It is filled with some water. How much more water must be poured into the tank so that it is completely filled with water.



Ans : _____ cm³

End of Booklet B

MID-YEAR EXAMINATION 2017
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1h 30 min

INSTRUCTIONS TO CANDIDATES

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

Name: _____ ( )

Class: Primary 5._____

Date: 5 May 2017

Parent's Signature : _____

55

This booklet consists of 12 printed pages including this page.

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)

Do not write in this space

1. Saniah had 32 kg of rice. She packed $\frac{1}{8}$ of it into 3 similar bags.
   What is the mass of each bag of rice? Give your answer as a mixed number.

Ans : _____ kg

2. Wei Li received $220. She saved $\frac{3}{10}$ of it and spent the rest of the money on 8 notebooks. How much did each notebook cost?

Ans : _____

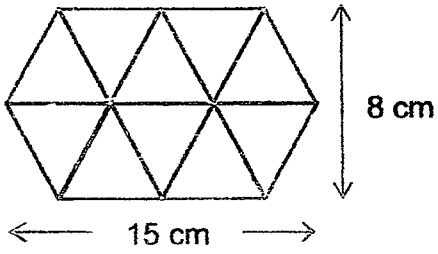
3. Study the number pattern shown below. What is the number marked A?

Do not write in this space

$3 \times 37 = 111$
$6 \times 37 = 222$
$9 \times 37 = 333$
. . .
. . .
. . .
$A \times 37 = 888$

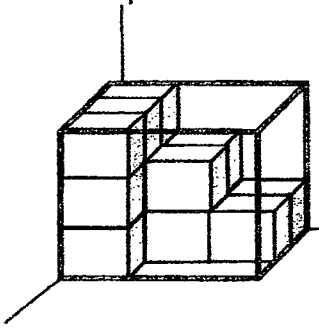
Ans : _____

4. The figure is made up of 10 identical triangles.
Find the area of the whole figure.



Ans : _____ cm^2

5. Peter puts some 1-cm cubes into a glass box as shown below.
How many more 1-cm cubes are needed to fill up the box completely?



Ans : _____

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

Do not write in this spac

6. 4 girls and 6 boys spent a total of $162 at a carnival fair. Each girl spent $18 more than each boy. How much money did each boy spend?

Ans : _____ [3]

7. Daniel and Tom had $190 at first. After giving $24 to Daniel, Tom has $86 less than Daniel. How much money had Daniel at first?

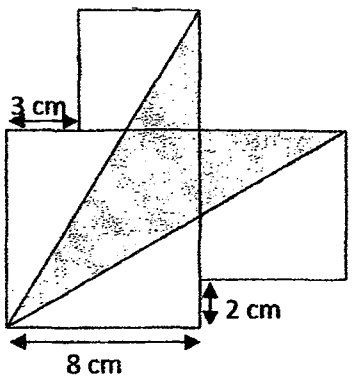
Ans : _____ [3]

8. There were 22 fewer children than adults in a hall. After 31 more children entered the hall and 29 adults left the hall, there were 3 times as many children as adults in the hall. How many children were there in the hall at first?

Do not write in this space

Ans : _____ [3]

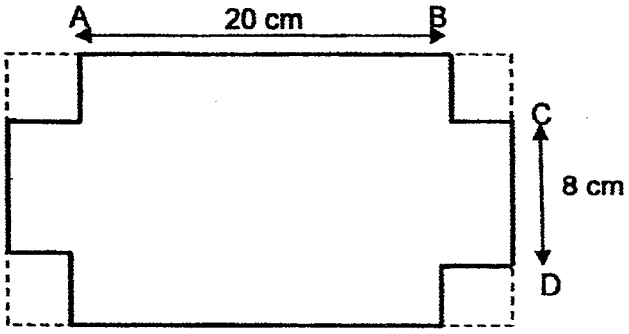
9. The figure below is made up of 3 different squares.
Find the area of the shaded parts.



Ans : _____ [3]

10. The figure below shows a rectangle with its corners cut off. Each of the four identical corners that has been cut off is a square. The ratio of the length of the rectangle to its breadth is 15 : 9. The length of AB is 20 cm and the length of CD is 8 cm. Find the length of the side of the square.

Do not write in this space



Ans : _____ [3]

11. 5 years ago, the ratio of Janet's age to her mother's age was 2 : 5. Janet is 36 years younger than her mother.

(a) How old was Janet 5 years ago?
(b) What is their total age now?

Ans : (a) _____ [2]

(b) _____ [2]

12. Fang Ting and Ashley had a total of \$1145. After Fang Ting donated $\frac{3}{5}$ of her money and Ashley donated \$256, both girls had equal amount of money left.

Do not write in this space

(a) How much money did both girls donate altogether?

(b) (i) Who donated more money?

(b) (ii) How much more?

Ans : (a) _____ [2]

(b) (i) _____ [1]

(b) (ii) _____ [1]

Do not write in this space

13. Annie read a book during the March holidays. She read $\frac{2}{9}$ of the book on the first day, $\frac{3}{7}$ of the remainder on the second day and $\frac{1}{2}$ of the rest of the book on the third day. There are 136 pages left.

(a) What fraction of the book was **not** read?

(b) How many pages were there in the book?

Ans : (a) _____ [1]

(b) _____ [3]

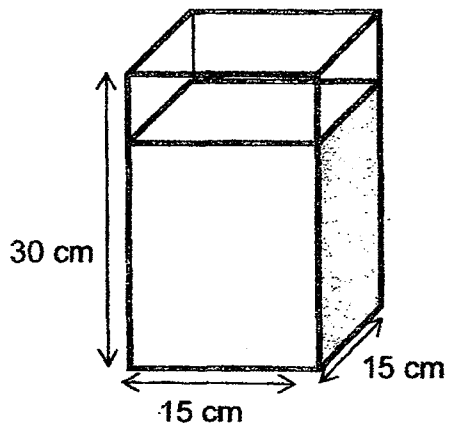
14. Container A measuring 15 cm by 15 cm by 30 cm is $\frac{4}{5}$ filled with water.

Do not write in this space

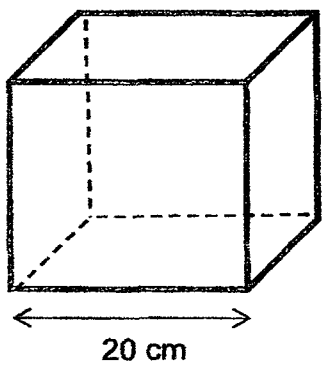
This amount of water is then transferred into an empty cubical Container B of side 20 cm.

(a) Find the volume of water in Container A at first.

(b) How much more water is needed to fill Container B to the brim? Give your answer in litres.



Container A



Container B

Ans : (a) _____ [2]

(b) _____ [2]

15. A book costs \$15. A file costs \$7 cheaper. Peter paid \$390 for some books and files. He bought 3 times as many files as books.

Do not write in this space

(a) How many files did he buy?

(b) How much **more** money did he spend on the files than the books?

Ans : (a) _____ [3]

(b) _____ [2]

16. There are 2 700 coloured cubes in a container. $\frac{9}{25}$ of the cubes were red. The rest were blue cubes and green cubes. The ratio of number of blue cubes to the number of green cubes is 3 : 1. $\frac{1}{2}$ of the green cubes were then removed from the container.

(a) How many blue cubes were there at first?

(b) Express the number of green cubes left in the container as a fraction of the total number of cubes in the container at first. Give your answer in the simplest form.

Do not write in this space

Ans : (a) _____ [3]

(b) _____ [2]

17. Mr Chong saved \$765 of his salary. He gave $\frac{1}{6}$ of his salary to his wife and spent $\frac{5}{11}$ of the remainder on transport. He had $\frac{1}{4}$ of his salary left. How much was his salary for the month?

Do not write in this space

Ans : [4]

End of Paper 2

School: MGS
Level: P5
Subject: Maths
Term: SA1
Year: 2017

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

Q16) 502107 Q17) 800 Q18) $5\frac{1}{2}$ Q19) $\frac{7}{20}$ Q20) 2160

Q21) $6\frac{6}{7}$ Q22) True; False Q23) 0.714 Q24) 1800 Q25) $\frac{27}{40}$

Q26) 18 Q27) 1 : 3 Q28) 50 Q29) 40 Q30) 256

<u>Paper 2</u>

Q1) $32 \times \frac{1}{8} = 4$

$4 \div 3 = \frac{4}{3} = 1\frac{1}{3}$

Q2) $220 \div 10 = 22$
$1u \rightarrow 22$
$7u \rightarrow 154$
$154 \div 8 = 19.25$

Q3) $888 - 333 = 555$
$555 \div 111 = 5$
$5 \times 3 = 15$
$15 + 9 = 24$

Q4) $\frac{1}{2} \times 5 \times 4 = 10$
$10 \times 10 = 100$

Q5) $3 \times 3 \times 3 = 27$
$27 - 15 = 12$

Q6) $18 \times 4 = 72$
$162 - 72 = 90$
$90 \div 10 = 9$

Q7) $86 - 24 = 62$
$(190 - 86) \div 2 = 52$
$52 + 62 = 114$

Q8) 29 – 22 = 7
2u → 31 + 7 = 38
1u → 38 ÷ 2 = 19
19 + 7 = 26

Q9) $[(\frac{1}{2} \times 8 \times 13) + (6 \times 5) + (\frac{1}{2} \times 14 \times 8)] = 138$
$[(14 \times 13) – 138] = 44$

Q10) 15 : 9 = 30 : 18
(30 – 20) ÷ 2 = 5

Q11) 5 – 2 = 3
36 → 3u
2u → 24
a) Ans: 24
24 + 5 = 29
36 + 29 = 65
65 + 29 = 94
b) Ans: 94

Q12) 1145 – 256 = 889
889 ÷ 7 = 127
(127 x 3) + 256 = 637
a) Ans: 637
b) i) Fang Ting
381 – 256 = 125
ii) $125

Q13) $1 - \frac{7}{9} = \frac{2}{9}$
a) Ans: $\frac{2}{9}$
2u → 136
9u → 612
b) Ans: 612 pages

Q14) 30 ÷ 5 = 6
6 x 4 = 24
Container A volume = 24 x 15 x 15 = 5400
a) Ans: 5400
20 x 20 x 20 = 8000
8000– 5400 = 2600 = 2.6 ℓ
b) Ans: 2.6 ℓ

Q15) 8 x 3 x u + 15u = 390
39u = 390
u = 10
a) No of files = 10 x 3 = 30
b) 240 – 150 = 90

Q16) $\frac{3}{4}$ x (2700 – 972) = 1296

a) Ans: 1296
2700 – 972 – 1296 = 432
432 ÷ 2 = 216

b) 216 ÷ 2700 = $\frac{2}{25}$

Q17) $\frac{1}{4}$ → 6u

1 → 24u

$\frac{1}{6}$ x 24u = 4u
24u – 4u – 5u – 6u = 9u
9u → 765
24u → 2040

End