2017 SEMESTRAL ASSESSMENT 1
MATHEMATICS
BOOKLET A
PRIMARY FOUR

Name: _____ ( ) **Class: Primary 4 ___**

Date: 9 May 2017 **Duration of Booklets A & B: 1 hour 45 minutes**

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 7 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answer on the Optical Answer Sheet (OAS) provided.

SECTION A - Multiple Choice Questions (30 MARKS)

Questions 1 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 (OAS).

1. The value of the digit 6 in 24 698 is _____.

   (1) 60 ones

   (2) 60 tens

   (3) 60 hundreds

   (4) 60 thousands

2. 43 hundreds and 9 tens is the same as _____.

   (1) 4 039

   (2) 4 390

   (3) 43 090

   (4) 43 900

3. Which of the following numbers when rounded off to the nearest ten becomes 85 400?

   (1) 85 348

   (2) 85 389

   (3) 85 396

   (4) 85 407

4. Which of the following is a factor of both 24 and 54?

(1) 12

(2) 9

(3) 8

(4) 6

5. Which of the following are multiples of 8?

(1) 8, 16, 24, 36 and 42

(2) 8, 18, 28, 38 and 48

(3) 16, 32, 40, 48 and 64

(4) 16, 32, 58, 72 and 80

6. Complete the following number pattern.

_____ , 20 152 , 21 172, 22 192 , 23 212

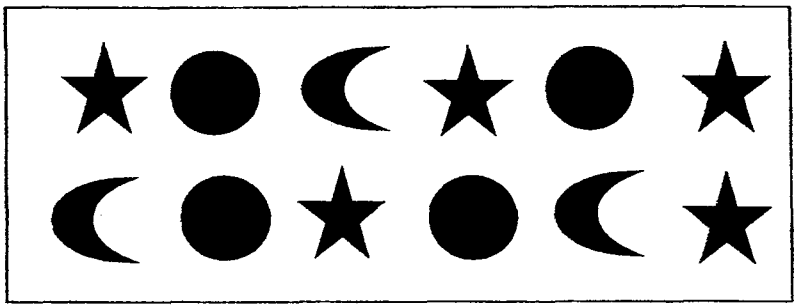
(1) 19 132

(2) 19 152

(3) 20 052

(4) 20 142

7. What fraction of the shapes in the box are  ?



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

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

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

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

8. Mrs Yeo bought 2 kg of flour. She used $\frac{3}{5}$ kg to bake a cake. How much flour did she have left?

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

(2) $\frac{3}{10}$ kg

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

(4) $1\frac{3}{5}$ kg

9. What is the missing number in the box below?

$$\frac{\boxed{?}}{24} = 4\frac{7}{8}$$

(1) 224

(2) 117

(3) 39

(4) 21

10. $\frac{1}{3}$ of the buttons in a jar are black and the rest are grey. If there are 14 more grey buttons than black buttons, how many buttons does the jar contain in total?

(1) 21

(2) 28

(3) 42

(4) 49

11. A number gives a quotient of 87 and a remainder of 4 when it is divided by 6. What is the number?

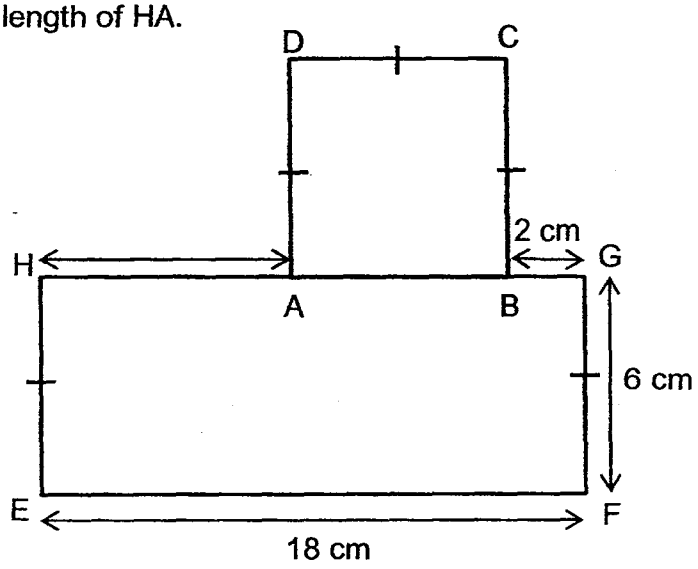
(1) 526

(2) 522

(3) 354

(4) 348

12. The given figure is made up of a square ABCD and a rectangle EFGH. Find the length of HA.



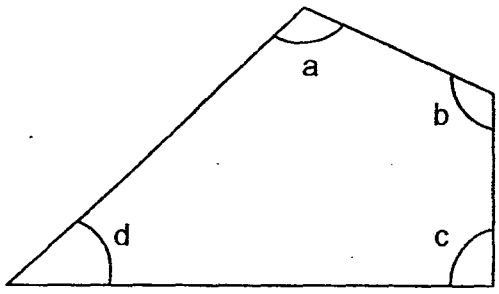
(1) 6 cm

(2) 8 cm

(3) 10 cm

(4) 16 cm

13. In the figure, which angle is smaller than a right angle?



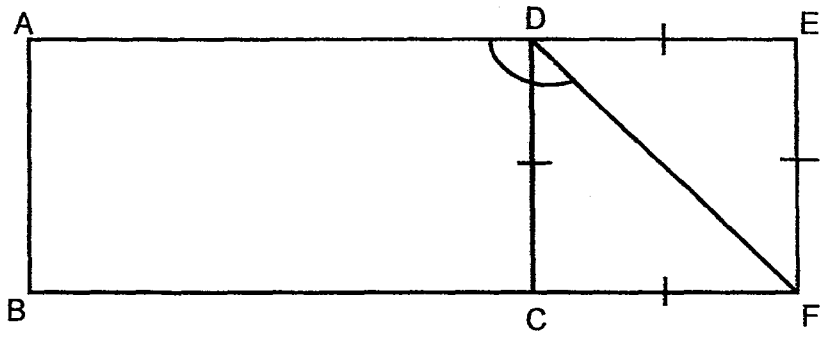
(1) ∠a

(2) ∠b

(3) ∠c

(4) ∠d

14. The figure below is made up of rectangle ABCD and square CDEF. Find $\angle ADF$.



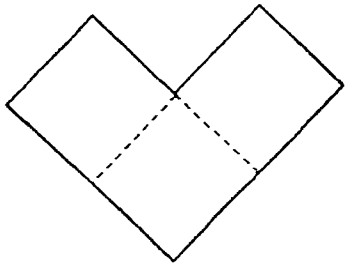
(1) 45^0

(2) 90^0

(3) 135^0

(4) 180^0

15. The figure below, not drawn to scale, is made up of 3 identical squares. The perimeter of the figure is 48 cm. What is the area of one square?



(1) 6 cm^2

(2) 16 cm^2

(3) 36 cm^2

(4) 108 cm^2

End – of –Booklet A

2017 SEMESTRAL ASSESSMENT 1
MATHEMATICS
BOOKLET B
PRIMARY FOUR

Name: _____ ( ) **Class: Primary 4** ____

Date: 9 May 2017 **Duration of Booklets A & B: 1 hour 45 minutes**

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of **16** printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.

Section	Maximum Marks	Marks Obtained
A. Multiple-Choice Questions	30	
B. Short Answers	40	
C. Problem Sums	30	
Total Marks	100	

SECTION B - Short Answer Questions (40 Marks)

Questions 16 to 35 carry 2 marks each. Show all workings clearly.
Write your answer in the space provided. Give your answers in the units stated and in its simplest form whenever possible.

16. Write seventeen thousand, five hundred and eleven in figures.

Answer : _____

17. Find the product of 4 376 and 8.

Answer : _____

18. 60 000 + 5000 + 40 + 3 = _____.

Answer : _____

19. What is the remainder when 7 394 is divided by 9?

Answer : _____

20. What is the value of $\frac{2}{3}+\frac{7}{12}$?
Express your answer as a mixed number in the simplest form.

Answer : _____

21. Express $\frac{68}{6}$ as a mixed number in its simplest form.

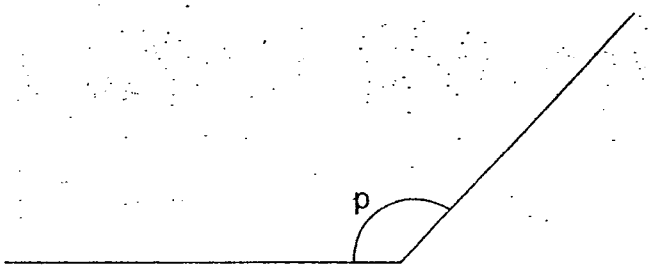
Answer : _____

22. Which two of the fractions are smaller than $\frac{1}{2}$?

$$\frac{2}{5}, \frac{4}{7}, \frac{7}{9}, \frac{5}{11}$$

Answer : _____ and _____

23. Measure and write down the size of $\angle$ p.



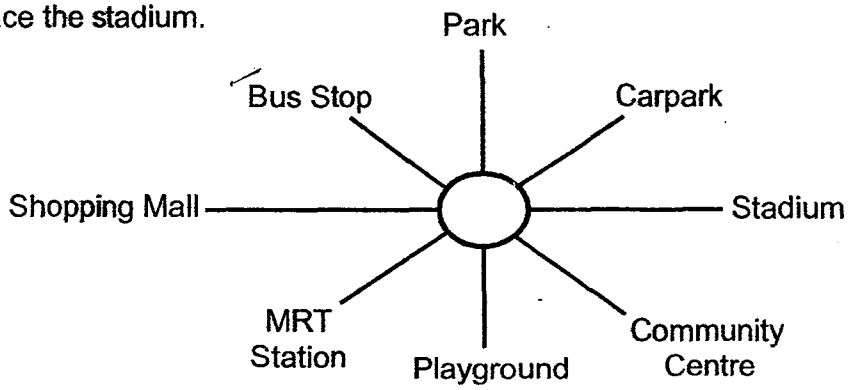
Answer : _____ °

24. Arrange the following fractions from the greatest to the smallest.

$$\frac{2}{3}, \frac{4}{12}, \frac{5}{9}$$

Answer : _____ (*greatest*) , _____ , _____ (*smallest*)

25. Henry is facing the MRT Station. If he turns _____ ^{0} anti-clockwise, he will face the stadium.



Answer : _____ °

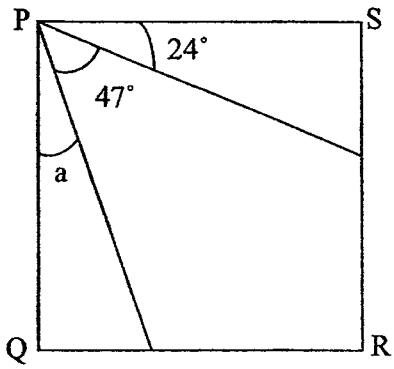
26. John pays $1 266 every 3 months to rent a room. How much does he pay to rent the room for a year?

Answer : $ _____

27. Some red and blue balloons were used at a party. $\frac{1}{4}$ of the balloons were blue and the rest were 54 red balloons. How many red and blue balloons were used at the party?

Answer : _____

28. In the figure below, PQRS is a square. Find the value of $\angle a$.



Answer : _____°

29. Ali has some stickers. He gave half of the stickers to his brother and collected another 353 stickers. He now has 480 stickers. How many stickers did he have at first?

Answer : _____

30. Nick bought 4 identical massage chairs. He gave the cashier $6 000 and received a change of $408. How much did Nick pay for 1 massage chair?

Answer : $ _____

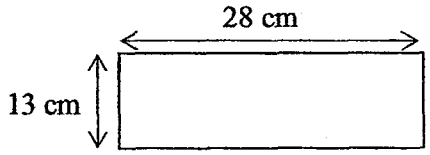
31. Ian, Andrew and Simon have a total of 471 stamps. Andrew has 19 more stamps than Ian. Simon has twice as many stamps as Ian. How many stamps does Ian have?

Answer : _____

32. What is the product of the first two common multiples for 6 and 9?

Answer : _____

33. Mark used a piece of wire to form a rectangle as shown in the figure below. He had 39 cm of wire left. What was the original length of the wire?

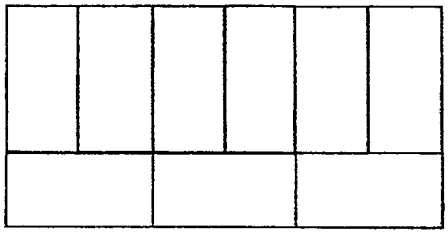


Answer : _____ cm

34. There were 189 roses at a florist. $\frac{4}{9}$ of the roses were red, 38 were pink and the rest were white. How many white roses were there?

Answer : _____

35. The figure below is made up of 9 identical rectangles. The breadth of each rectangle is 3 m. What is the total area of the figure?



Answer : _____ m^2

SECTION C - Problem Sums (30 Marks)

For each question from 36 to 43, show your working and mathematical statements clearly in the space below each question. Write your answer in the answer space provided. Give your answers in the units stated and in its simplest form whenever possible. Marks awarded are shown in the brackets [ ].

36. Sarah spent $\frac{1}{3}$ of her salary on a bag and another $\frac{2}{9}$ of her salary on a dress. She had $1 536 left. How much did she spend on the bag and dress?

Answer: _____ [3]

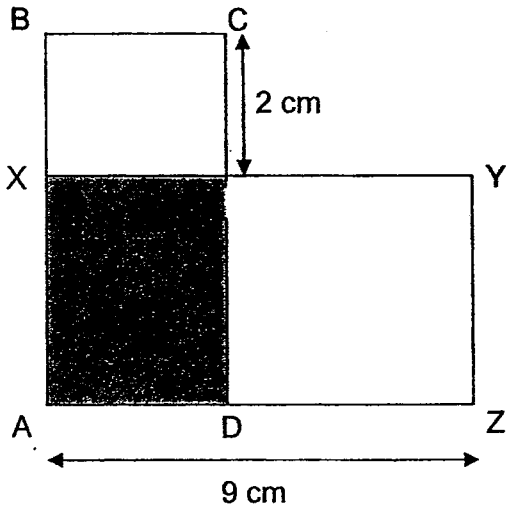
37. In a shop, there were 180 cups and bowls. There were 3 times as many bowls as cups. Mrs Tan paid $19 for a bowl. How much money was collected from the sale of all the bowls in the shop?

Answer: _____ [3]

38. Maya baked a total of 370 muffins. $\frac{2}{5}$ of the muffins were chocolate-flavoured, 104 were vanilla-flavoured and the rest of the muffins were cheese-flavoured. She sold all the cheese-flavoured muffins at $4 each. How much money did she earn from the sale of the cheese-flavoured muffins?

Answer :_____ [4]

39. The figure below, not drawn to scale, is made up of Rectangle ABCD with an area of 24 cm^2, and Rectangle AXYZ with an area of 54 cm^2. What is the area of the shaded part?



Answer : _____ [4]

40. An equal number of boys and girls were jogging at a park. After two hours, $\frac{2}{3}$ of the boys and $\frac{5}{8}$ of the girls left the park. There were 27 girls who remained at the park.

a) How many girls were at the park at first?

b) How many boys left the park?

Answer: (a) _____ [2]

(b) _____ [2]

41. The mass of a plastic container with 15 identical balls is 945 g. The mass of a similar plastic container with 8 identical balls is 826 g. What is the mass of the 12 such identical balls?

Answer: _____ [4]

42. Allan and Jack had the same number of cards at first. After Allan had bought another 373 cards and Jack lost 23 of his cards, Allan had four times as many cards as Jack. How many cards did each of them have at first?

Answer: _____ [4]

43. Tanya paid a total of $6 663 for 3 laptops and 2 printers. Adrian bought a similar laptop and a similar printer and paid $4 279 less than Tanya. What was the cost of a laptop?

Answer: _____ [4]

End – of – Paper

ANSWER KEY

YEAR	:	2017
LEVEL	:	PRIMARY 4
SCHOOL	:	ANGLO-CHINESE (PRIMARY)
SUBJECT	:	MATHEMATICS
TERM	:	SA1

Booklet A

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

Booklet B

16) 17 511

17) 35 008

18) 65 043

19) 5

20) $1\frac{1}{4}$

21) $11\frac{1}{3}$

22) $\frac{2}{5}$ and $\frac{5}{11}$

23) 133°

24) $\frac{2}{3}, \frac{5}{9}, \frac{4}{12}$

25) 135°

26) $5064

27) 72 balloons

28) 19°

29) 254 stickers

30) $1398

31) 113 stamps

32) 648

33) 121 cm

34) 67 white roses

35) 162 m^2

36) $\frac{1}{3} = \frac{3}{9}$

$\frac{3}{9} + \frac{2}{9} = \frac{5}{9}$

9 – 5 = 4
1536 ÷ 4 = 384
384 x 5 ⇒ <u>$1920</u>

37) 45 x 3 = 135
180 ÷ 4 = 45
135 x 19 ⇒ <u>$2565</u>

38) 74 + 44 = 118
118 x 4 ⇒ <u>$472</u> ($47)

39) 18 cm^2

40) (a) 27 ÷ 3 = 9
9 x 8 ⇒ <u>72 girls</u>

(b) 72 ÷ 3 = 24
24 x 2 ⇒ <u>48 boys</u>

41) 945 – 826 = 119
119 ÷ 7 = 17
17 x 12 ⇒ <u>204 g</u>

42) 1u → 396 ÷ 3 = 132
132 + 23 ⇒ <u>155 cards</u>

43) 6663 – 4279 = 2384
2384 x 2 = 4768
6663 – 4768 ⇒ <u>$1895</u>

End