**SEMESTRAL ASSESSMENT 2 (2016)**

**PRIMARY 4**

**MATHEMATICS**

**Booklet A**

**Tuesday** **1 November 2016** **1 h 45 min**

Name: _____.( ) Class: 4.( )

**INSTRUCTIONS TO PUPILS**

1 Do not turn over the pages until you are told to do so.

2 Follow all instructions carefully.

3 There are 20 questions in this booklet.

4 Answer ALL questions.

5 Shade your answers in the Optical Answer Sheet (OAS) provided.

---

**This question paper consists of 9 printed pages(inclusive of cover page).**

## Section A

**Questions 1 to 20 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).** **(40 marks)**

---

1. 66 thousands and 9 tens is the same as _____.

   1) 669
   2) 6690
   3) 66009
   4) 66090

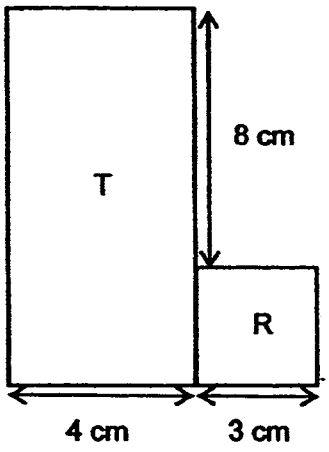
2. 90 000 + 4000 + 300 + 2 = _____.

   1) 94320
   2) 94302
   3) 94032
   4) 90432

3. The digit 9 in 6.397 stands for 9 _____.

   1) ones
   2) tens
   3) tenths
   4) hundredths

4. The figure shown is made up of a square R of side 3 cm and a rectangle T with breadth 4 cm. What is the length of the rectangle?




1) 7 cm
2) 8 cm
3) 11 cm
4) 12 cm

5. How many one-fifths are there in 2 wholes?

1) $1\frac{1}{5}$
2) $\frac{2}{5}$
3) 5
4) 10

6. Find the value of $\frac{7}{10} - \frac{1}{2}$.

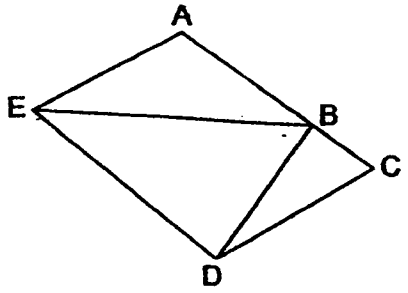
1) $\frac{1}{5}$

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

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

4) $\frac{4}{5}$

7. In the figure, which line is perpendicular to AB?




1) AE
2) BD
3) CD
4) DE

8. Which of the following decimals is the smallest?

1) 0.460
2) 0.560
3) 0.457
4) 0.545

9. Which of the dotted lines is <u>not</u> a line of symmetry?

1) 

2) 

3) 

4) 

10. Which of the following is both a factor of 28 and a multiple of 4?

1) 7
2) 16
3) 28
4) 56

11. Bob had 3 $\ell$ of orange juice in a jug. He poured the orange juice equally into 5 glasses to share with his friends. How much orange juice did each glass hold?

1) 0.5 $\ell$
2) 0.6 $\ell$
3) 5 $\ell$
4) 15 $\ell$

12. Which one of the following fractions is less than $1\frac{1}{2}$?

1) $\frac{3}{2}$
2) $\frac{4}{3}$
3) $\frac{7}{4}$
4) $\frac{8}{5}$

13. Express $9\frac{2}{7}$ as an improper fraction.

1) $\frac{18}{7}$
2) $\frac{63}{7}$
3) $\frac{65}{7}$
4) $\frac{92}{7}$

14. A number when rounded off to the nearest ten has a value of 400. What could be the number?

1) 390
2) 395
3) 405
4) 409

15. A coach left Singapore for Penang at 21 45. It reached Penang at 05 00 the next day. How long was the journey?

1) 6 h 15 min
2) 6 h 45 min
3) 7 h 15 min
4) 7 h 45 min

16. I have a 3-digit **even** number. The digit in the **ones place is twice the digit in the tens place.** The number can be divided exactly by 4. What is the number?

1) 721
2) 726
3) 748
4) 763

The following table shows the number of curry puffs and chicken pies sold by a bakery from Monday to Wednesday. Study the table and answer Questions 17 and 18.

| Day | Number of curry puffs | Number of chicken pies |
|---|---|---|
| Monday | 290 | 320 |
| Tuesday | 340 | 255 |
| Wednesday | 250 | 420 |

17. What was the total number of curry puffs and chicken pies sold on Wednesday?

1) 610
2) 670
3) 880
4) 995

18. Each chicken pie was sold at $3. How much more money did the bakery collect from the sale of chicken pies on Monday than on Tuesday?

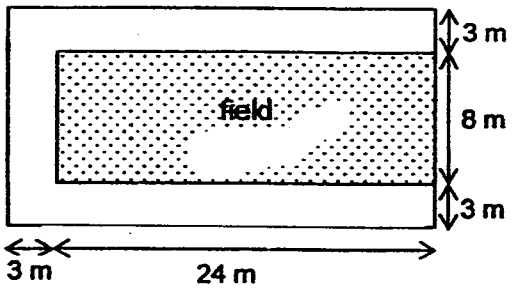
1) $150
2) $195
3) $665
4) $960

19. Which of the following have the **same** areas?

| | |
|---|---|
| A | A square of side 12 cm. |
| B | A square of side 20 cm. |
| C | A rectangle measuring 20 cm by 9 cm. |
| D | A rectangle measuring 50 cm by 8 cm. |

1) A and C
2) A and D
3) B and C
4) B and D

20. A rectangular field of length 24 m and breadth 8 m has a path 3 m wide as shown below. What is the area of the path?




1) 186 $m^2$
2) 192 $m^2$
3) 297 $m^2$
4) 378 $m^2$

**End of Booklet A**

**SEMESTRAL ASSESSMENT 2 (2016)**

**PRIMARY 4**

**MATHEMATICS**

**Booklet B**

**Tuesday** **1 November 2016** **1 h 45 min**

Name: _____ (  ) Class: 4.(  )

**INSTRUCTIONS TO PUPILS**

1 Do not turn over the pages until you are told to do so.

2 Follow all instructions carefully.

3 There are 25 questions in this booklet.

4 Answer ALL questions.

| Section | Possible Marks | Marks Obtained |
|---|---|---|
| A | 40 | |
| B | 40 | |
| C | 20 | |
| Total | 100 | |

**This question paper consists of 12 printed pages (inclusive of cover page).**

## Section B

**Questions 21 to 40 carry 2 marks each. Show your working clearly and write your answers in the boxes provided. For questions which require units, give your answers in the units stated.** (40 marks)

---

21. Write the missing number in the number pattern below.

13 000, 12 200, 11400, 10 600, _____, 9000

| |
|---|
| |

22. Two factors of 6 are 1 and 6. What are the other two factors of 6?

| |
|---|
| _____ and _____ |

23. Arrange the following numbers from the smallest to the greatest.

9705 , 9057 , 9570

| |
|---|
| _____ , _____ , _____ <br> *(smallest)* *(greatest)* |



| |
|---|
| |

24. What is the value of $\frac{5}{6} + \frac{2}{3}$?

Express your answer as a mixed number.

25. Express 0.6 as a fraction.

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

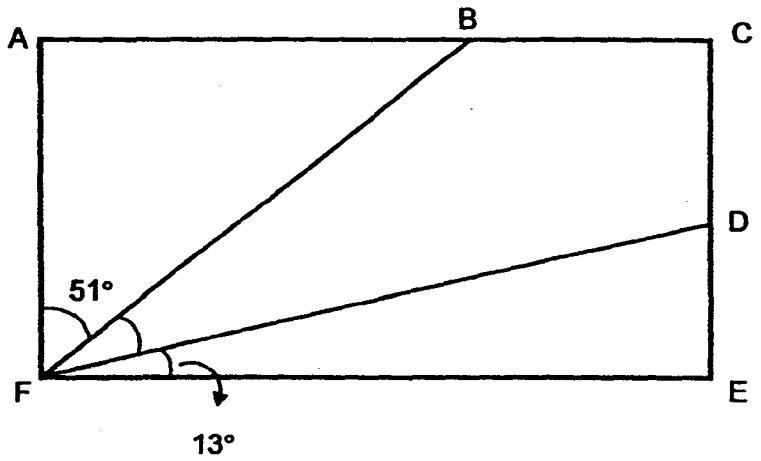
$$\frac{7}{12} \ , \ \frac{1}{2} \ , \ \frac{11}{12}$$

_____ , _____ , _____
*(smallest)* *(greatest)*

27. Express $\frac{86}{100}$ as a decimal.

28. Find the value of $7.92 \times 8$.

29. In the figure shown, ACEF is a rectangle. Find $\angle BFD$.




°

30. Express 2 h 35 min in minutes.

min

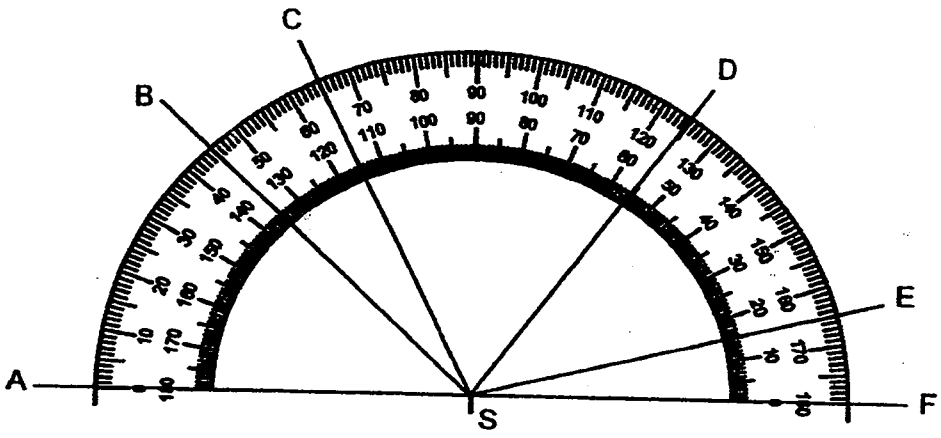
31. Fatimah is facing north-east. She makes a $\frac{3}{4}$-turn in an anti-clockwise direction. In which direction will she be facing now?

32. Selene bought a book for $66. She gave the cashier twice as many $10 notes as $2 notes. How many $2 notes did she give the cashier?

33. Matt had 24 m of wire. He used $\frac{5}{12}$ of them to make a toy. What was the length of the wire left?

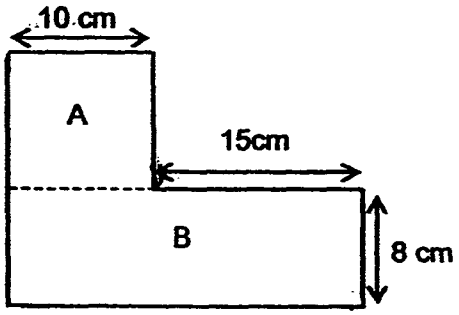
m

34. Name the angle that is equal to 135°.




∠

35. The figure is made up of a square A and a rectangle B. What is the perimeter of the figure?



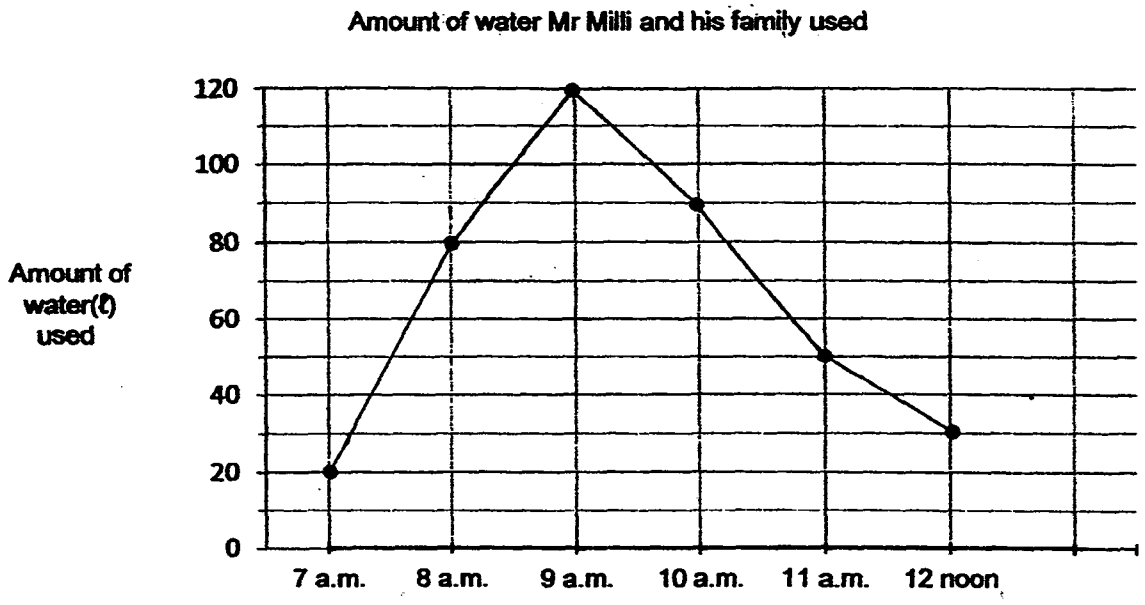

cm

36. The table below shows the number of coins Kim and Fauzi have. How much money do Kim and Fauzi have altogether?

| | Kim | Fauzi |
|---|---|---|
| Number of 20-cent coins | 4 | 9 |
| Number of 50-cent coins | 6 | 3 |

$

The line graph below shows the amount of water used by Mr Milli and his family from 7 a.m. to 12 noon. Study the graph carefully and answer Questions 37 and 38.



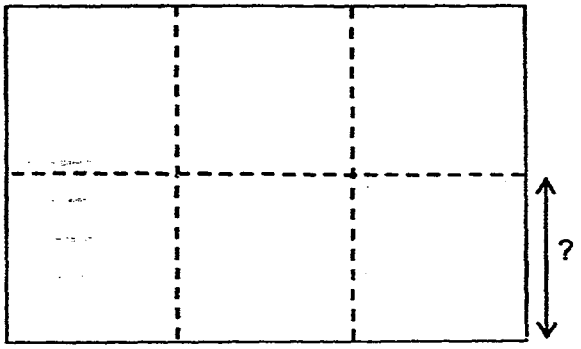

37. What was the difference between the greatest and the least amount of water used?

litres

38. During which 1-hour interval was the decrease in the amount of water used the greatest?

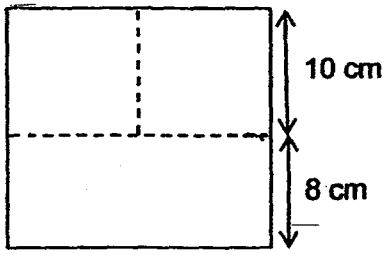
From _____ to _____

39. The figure is made up of 6 similar squares. The area of the figure is 486 $cm^2$. Find the length of one side of the square.




cm

40. The figure below is made up of a rectangle and two similar squares. Find the area of the whole figure




$cm^2$



Sub-Total :

## Section C

Questions **41** to **45** carry 4 marks each. For each question, show your working clearly as marks will be given for working and relevant statement. (20 marks)

---

41. The total mass of a basket and a watermelon is 7.45 kg. When some oranges are added to the basket, the total mass becomes 9.6 kg. The mass of the watermelon is three times the mass of all the oranges.
    (a) What is the mass of the watermelon?
    (b) Find the mass of the basket.

42. Mr Muthu had some chickens on his farm. He gave $\frac{1}{4}$ of his chickens to Mr Tan and $\frac{5}{12}$ of them to Mr Yazid. Mr Muthu gave Mr Yazid 96 more chickens than Mr Tan.
    (a) What fraction of the chickens did Mr Muthu give away?
    (b) How many chickens did Mr Tan receive from Mr Muthu?

43. Michael saved some of his pocket money for 3 days. He saved $3.00 on the first day. For the remaining 2 days, he saved $0.20 more than the previous day.

(a) How much money did he save in 3 days?

(b) Michael then spent all his savings on 4 identical pens. How much did each pen cost?

44. There were twice as many girls as boys in the hall. After 296 boys left the hall, the number of girls in the hall was 6 times the number of boys in the hall.

(a) How many boys remain in the hall?

(b) How many children were there in the hall at first?

45. There are 745 red and white roses in Shop A. There are 455 red and yellow roses in Shop B. The number of white roses in Shop A is three times the number of yellow roses in Shop B. The number of red roses in both shops is the same.

(a) How many yellow roses are there in Shop B?

(b) Find the total number of red roses in both shops.



**End of Booklet B**

# ANSWER KEY

| | | |
|---|---|---|
| YEAR | : | 2016 |
| LEVEL | : | PRIMARY 4 |
| SCHOOL | : | ANGLO-CHINESE (JUNIOR) |
| SUBJECT | : | MATHEMATICS |
| TERM | : | SA2 |

Booklet A

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 2 | 4 | 3 | 4 | 1 | 2 | 3 | 2 | 3 |
| Q11 | Q12 | Q13 | Q14 | Q15 | Q16 | Q17 | Q18 | Q19 | Q20 |
| 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 4 | 1 |

Booklet B

Q21 9800

Q22 2 and 3

Q23 9057, 9570, 9705

Q24 $1\frac{1}{2}$

Q25 $\frac{3}{5}$

Q26 $\frac{1}{2}, \frac{7}{12}, \frac{11}{12}$

Q27 0.86

Q28 63.36

Q29 26°

Q30 155 min

Q31 South – East

Q32 3

Q33 $24 \div 12 = 2$
$2 \times 5 = 10$
$24 - 10 \Rightarrow$ 14 m

Q34 ∠FSB

Q35 86 cm

Q36 $3.80 + $3.30 ⇒ $7.10

Q37 120 – 20 ⇒ 100 litres

Q38 From 10 am to 11 am

Q39 9 cm

Q40 360 $cm^2$

Q41 (a) 9.6 – 7.45 = 2.15
2.15 x 3 ⇒ 6.45 kg

(b) 7.45 – 6.45 ⇒ 1 kg

Q42 (a) $\frac{1}{4} = \frac{3}{12}$ (Tan)
$\frac{5}{12} + \frac{3}{12} = \frac{8}{12} \Rightarrow \frac{2}{3}$

(b) $\frac{5}{12} - \frac{3}{12} = \frac{2}{12}$
2 units = 96
1 unit = 48
48 x 3 ⇒ 144 chickens

Q43 (a) 3.00 + 0.20 = 3.20 ($2^{nd}$)
3.20 + 0.20 = 3.40 ($3^{rd}$)
3.00 + 3.20 + 3.40 ⇒ $9.60

(b) 9.60 ÷ 4 ⇒ $2.40 each pen

Q44 (a) 148 boys

(b) 148 + 296 = 444
444 x 3 ⇒ 1332 children

Q45 (a) 2u = 290
1u ⇒ 145 yellow roses

(b) 455 – 145 = 310
310 x 2 ⇒ 620 red roses

End