14

**Temasek Primary School**

**Semestral Assessment 1**

**Primary Four**

**2016**

**MATHEMATICS**

**BOOKLET A**

Name : _____ (  )

Class : Primary 4 _____

Date : 12th May 2016

Parent's Signature: _____

Total Time for Booklets A & B: 2h

**Instructions to Candidates:**

1. Write your name, class and register number in the spaces provided clearly.
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.

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Questions 1 to 10 carry 1 mark each. Questions 11 to 20 carry 2 marks each. For each question, 4 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. You are **not** allowed to use a calculator.

(30 marks)

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1. In the number 67 543, the digit _____ is in the ten thousands place.

   (1) 7
   (2) 6
   (3) 5
   (4) 4

2. In which of the following are the numbers arranged from the greatest to the smallest?

   (1) 2065, 2650, 2560, 2056
   (2) 2650, 2560, 2065, 2056
   (3) 2650. 2065, 2605, 2056
   (4) 2056, 2065, 2560, 2650

3. The product of 346 and 12 is _____.

   (1) 4242
   (2) 4152
   (3) 4092
   (4) 4033

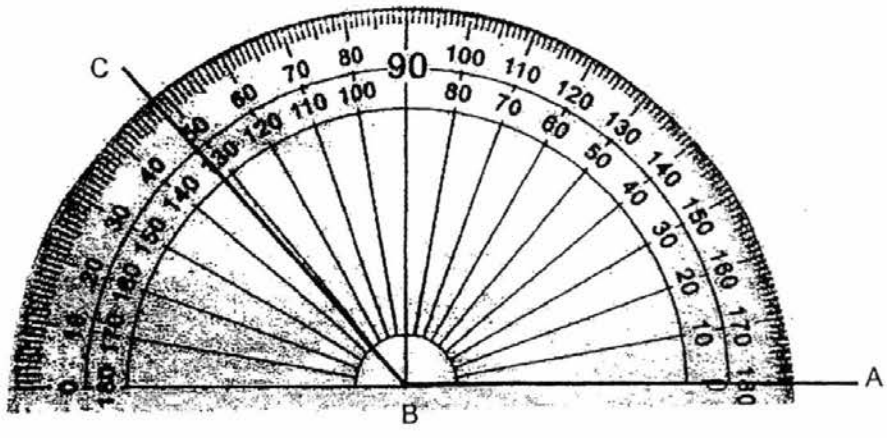


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4. Find the quotient when 6345 is divided by 5.

(1) 1271
(2) 1269
(3) 1469
(4) 1309

5. Find the value of ∠ABC shown in the picture below.

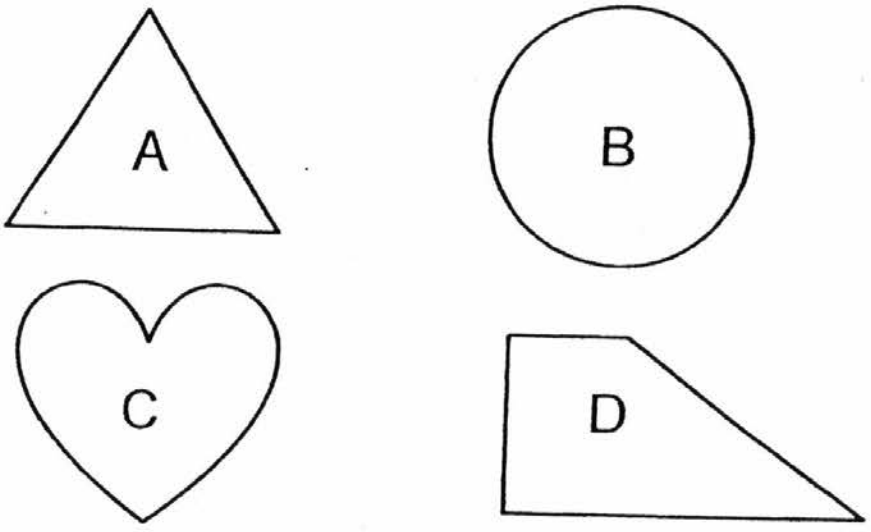



(1) 48°
(2) 52°
(3) 132°
(4) 148°



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6. Which one of the following figures is not symmetrical?




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

7. Which one of the following numbers when rounded to the nearest hundred becomes 48 700?

(1) 48 575
(2) 48 649
(3) 48 678
(4) 48 756

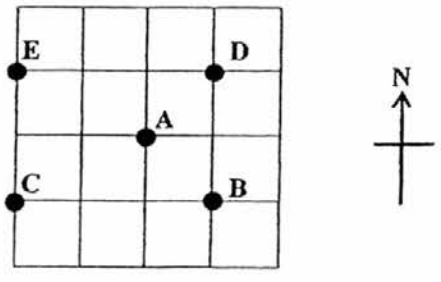


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8. $7 \times \square = 9030$

(1) 1290
(2) 9023
(3) 9037
(4) 63 210

9. Which point, B, C, D or E, is north-east of point A?




(1) B
(2) C
(3) D
(4) E

10. Which one of the following numbers has 4 as a factor?

(1) 10
(2) 30
(3) 42
(4) 64



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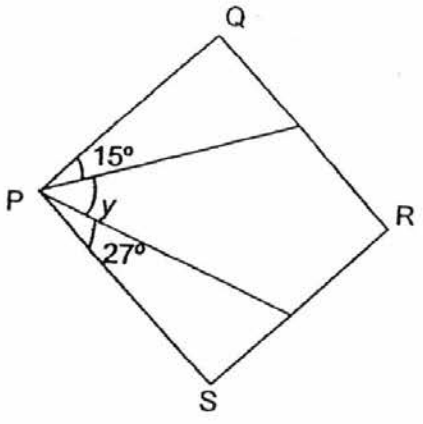
11. What is the sum of the eighth multiple of 7 and the sixth multiple of 8?

(1) 29
(2) 56
(3) 48
(4) 104

12. Mrs Quek bought some erasers for her pupils. The number of erasers was more than 20 but fewer than 65. The erasers could be shared equally by 2, 3 or 5 pupils. What was the largest number of erasers Mrs Quek bought?

(1) 60
(2) 45
(3) 40
(4) 30

13. In the figure below, not drawn to scale, PQRS is a rectangle. Find $\angle y$.




(1) 42°
(2) 48°
(3) 63°
(4) 75°



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14. The table below shows the number of storybooks borrowed by the P4 pupils from their school library last week.

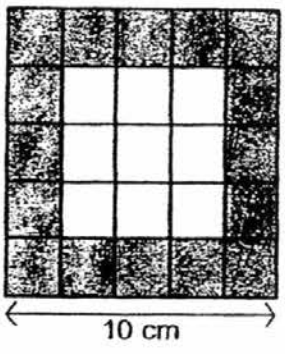
| **Number of storybooks borrowed by each pupil** | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| **Number of pupils** | 60 | 35 | 45 | 100 |

What was the total number of storybooks borrowed by the pupils last week?

(1) 180
(2) 240
(3) 425
(4) 485

15. The square below is made up of smaller squares of equal sizes.
Find the area of the shaded part.

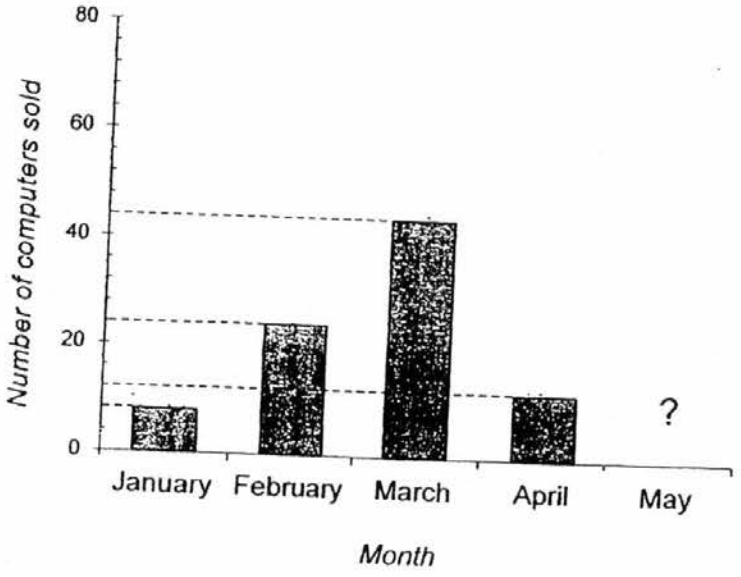
(1) 100 $cm^2$
(2) 64 $cm^2$
(3) 36 $cm^2$
(4) 16 $cm^2$






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The graph below shows the number of computers Mr Lee sold from January to May. Study the graph carefully and answer questions 16 and 17.




16. Mr Lee sold _____ computers ~~sold~~ from January to April.

(1) 88
(2) 76
(3) 74
(4) 67

17. The cost of each computer is $349. If he sold a total of 96 computers from January to May, how much did Mr Lee receive from selling the computers in May?

(1) $33 504
(2) $30 712
(3) $2792
(4) $2747



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18. There is 38 ℓ of oil in Barrel A and 148 ℓ of oil in Barrel B. How much oil must be poured out from Barrel B to Barrel A such that there is an equal amount of oil in both barrels?

(1) 55 ℓ
(2) 93 ℓ
(3) 110 ℓ
(4) 186 ℓ

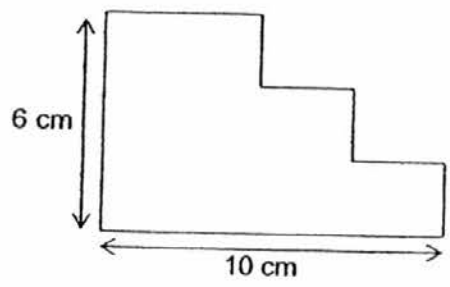
19. The total cost of a handphone, watch and a calculator is $1656. The handphone costs thrice as much as the watch. The watch costs twice as much as the calculator. Find the total cost of the watch and calculator.

(1) $184
(2) $368
(3) $552
(4) $828



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20. Find the perimeter of the figure below.




(1) 60 cm

(2) 56 cm

(3) 32 cm

(4) 26 cm

—— End of Booklet A ——



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**Temasek Primary School**

**Semestral Assessment 1**

**Primary Four**

**2016**

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# MATHEMATICS

## BOOKLET B

Name : _____ (  )

Class : Primary 4 _____

Date : 12th May 2016

Parent's Signature: _____

Total Time for Booklets A & B: 2h

**Instructions to Candidates:**

1. Write your name, class and register number in the spaces provided clearly.
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.

| Paper | Marks | Scores |
|---|---|---|
| Section A | 30 | |
| Section B | 40 | |
| Section C | 30 | |
| Total | 100 | |

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Questions 21 to 40 carry 2 marks each. Show your working clearly in the space provided for each question and write your answer in the spaces provided. For questions which require units, give your answers in the units stated. You are **not** allowed to use a calculator.

(40 marks)

21. Write 59 640 in words.

Answer: _____

_____

22. 38 459 = 30 000 + _____ + 400 + 50 + 9

What is the missing number?

Ans: _____

23. Find the common factors of 6 and 27. The answers are _____

Ans: _____

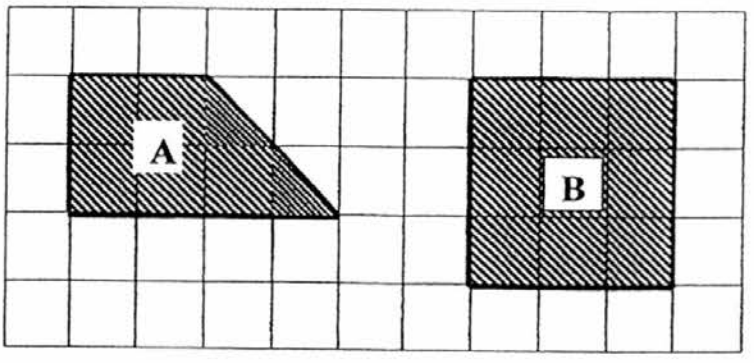


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24. What is the remainder when 6430 is divided by 6?

Ans: _____

25. Study the figures drawn on the square grid below.



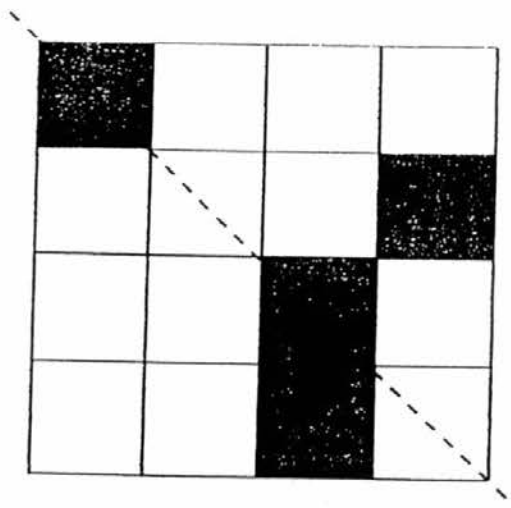

Complete the table below by **ticking (√) the correct column** to show the properties each figure has.

| Property | Figure A | Figure B |
|---|---|---|
| Its opposite sides are of equal length. | | |
| It has exactly one pair of parallel lines. | | |



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26. Complete the drawing below by shading 2 more squares so that the dotted line is a line of symmetry.



27. What is the missing number in the number pattern below?

46 855 , 47 355 , 48 355 , 49 855 , _____ , 54 355

Ans: _____



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28. Use the digits given below to form the greatest 5-digit odd number. Use each digit only once.

| 4 , 7 , 8 , 5 , 9 |
|---|

Ans: _____

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29. Isaac, Arun and Simon have a total of 476 stamps. Arun has 13 more stamps than Isaac. Simon has twice the total number of stamps as Arun and Isaac have. How many stamps does Isaac have?

Ans: _____

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30. Mrs Tan bought 16 packets of sweets. In each packet, there were 47 sweets. If all the sweets were repacked into bags of 7, what is the minimum number of bags Mrs Tan would need?

Ans: _____

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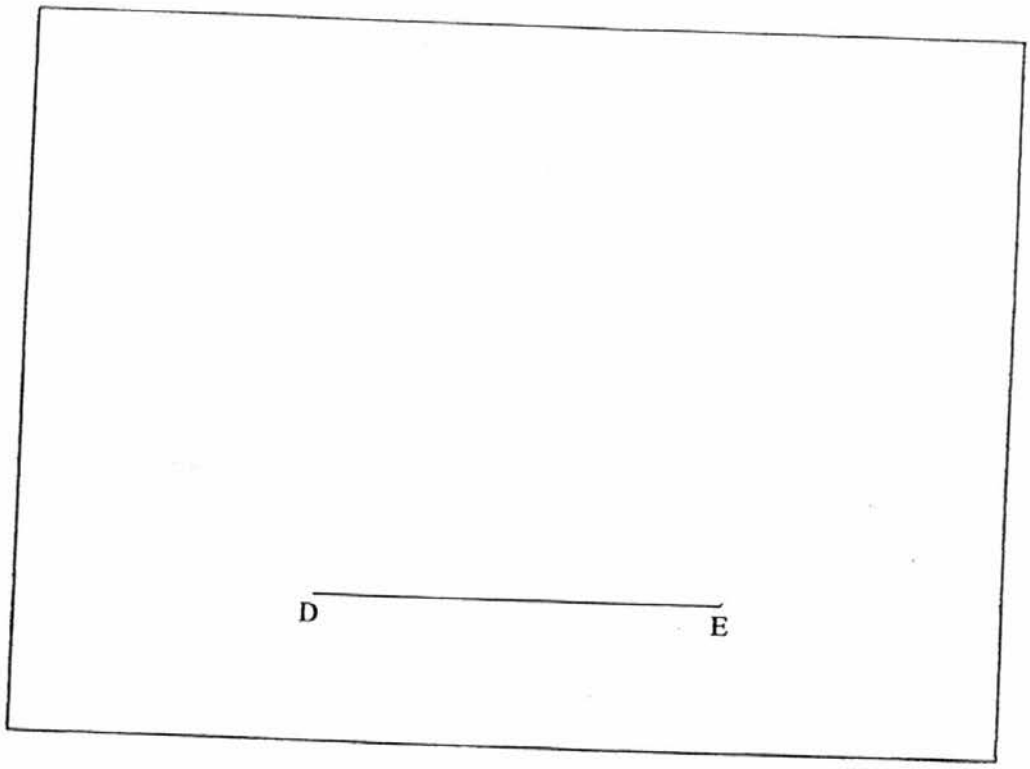
31. If ○ x ○ = 49

and ☆ x ☆ = 64.

Find the value of ○ x ☆.

Ans: _____

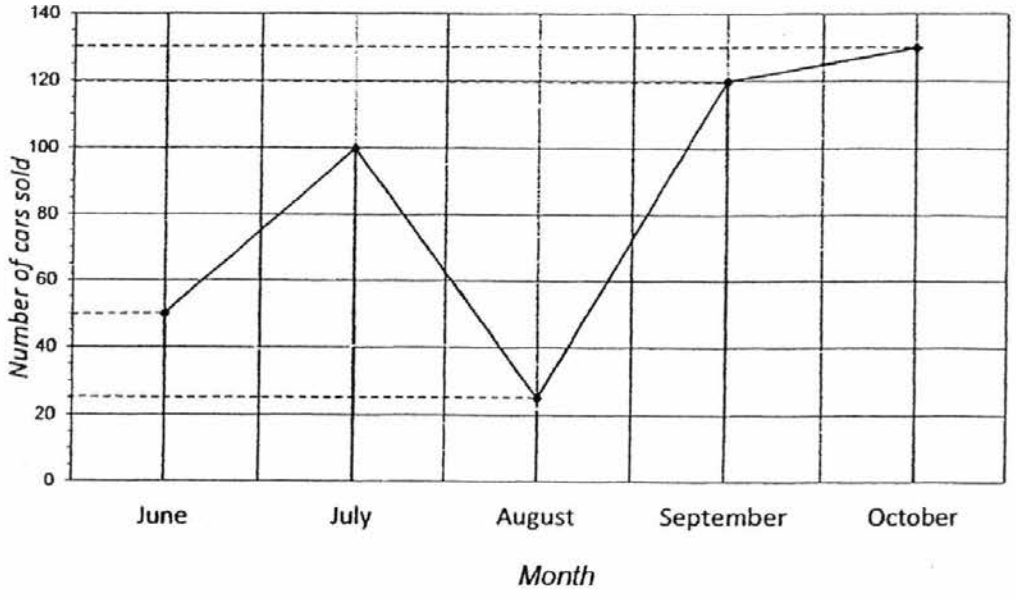
32. Using your ruler and set-square, draw a square of side 6 cm in the box provided below. Label the square DEFG.






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The line graph below shows the number of cars sold by Mr Lim from June to October. Study it carefully and answer questions 33 and 34.




33. Between which two months was there a greatest increase in the number of cars sold?

Ans: _____ and _____

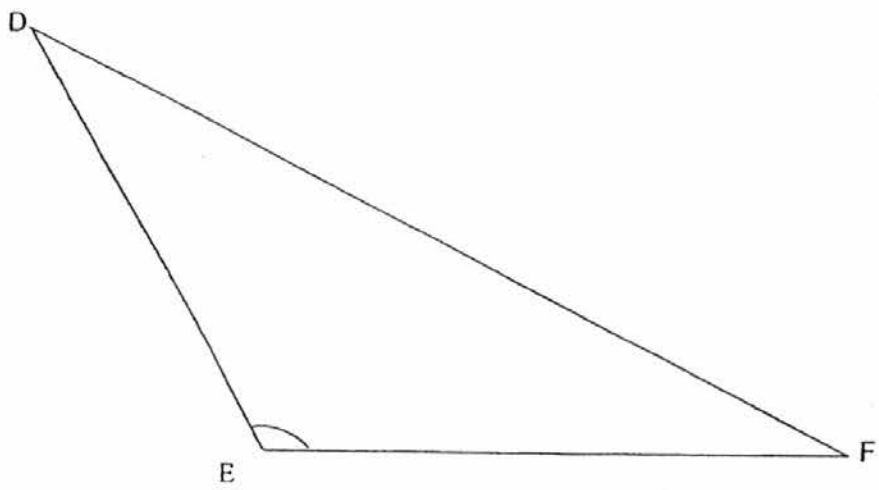
34. Mr Lim sold twice as many cars in June as _____.

Ans: _____



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35. Using a protractor, measure ∠ DEF.




Ans: _____ °

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36. Each letter in the following sum represents a whole number.
Find the numbers that are represented by these letters.

$$\begin{array}{r} 4\ \boxed{B}\ \boxed{A} \\ +\ \boxed{A}\ \boxed{A}\ 3 \\ \hline 7\ 0\ 5 \end{array}$$

Ans: A = _____

B = _____

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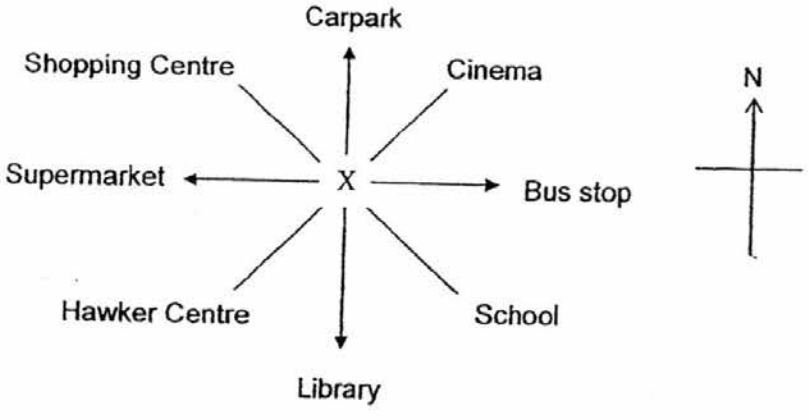
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37. The minute hand of the clock has moved _____ right angles from 5 p.m. to 7 p.m.

Ans: _____

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38. Charles was standing at Point X. After making a $\frac{3}{4}$ - turn in an anti-clockwise direction, he was facing the shopping centre. Where was he facing at first?




Ans: _____

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39. 18 trees were planted equally apart along one side of a straight road.
The distance between the first and fifth tree was 60 m.
What was the distance between the first and last tree?

Ans: _____ m

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40. Numbers are arranged in 4 columns as shown below.
In which column, A, B, C or D will the number 150 be?

| A | B | C | D |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 8 | 7 | 6 | 5 |
| 9 | 10 | 11 | 12 |
| 16 | 15 | 14 | 13 |
| .. | .. | .. | .. |

Ans: _____

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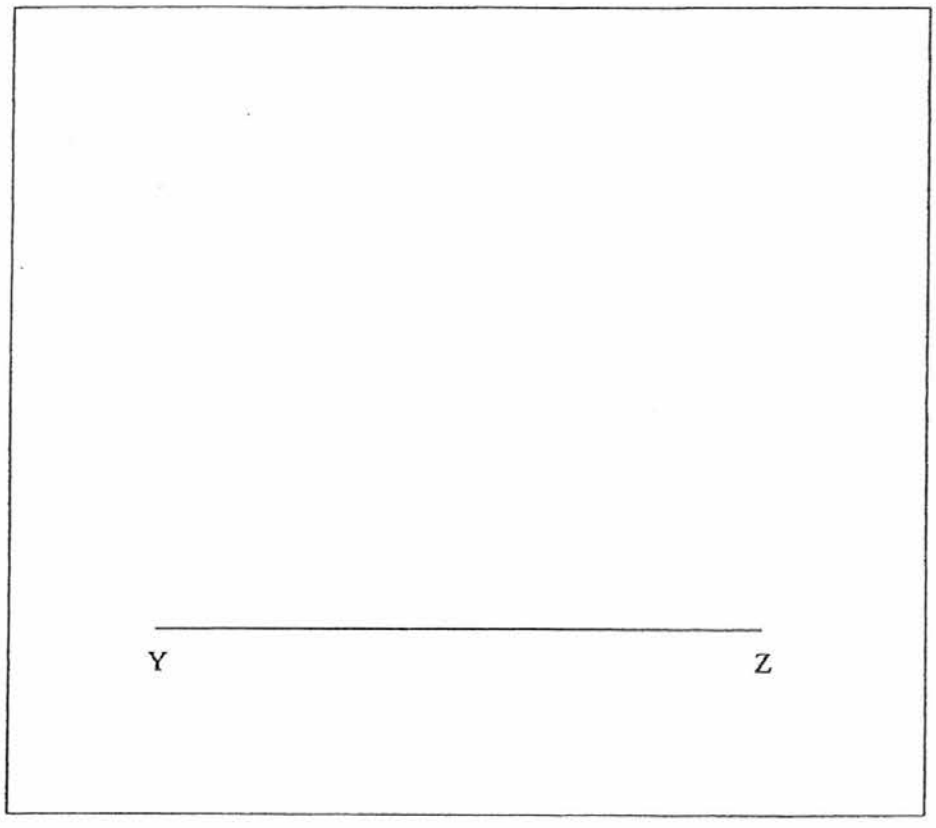
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For questions 41 to 48, show your workings clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question.

(30 marks)

41. Using a protractor, draw an angle measuring 60° in the box below. [1 mark]

Label the angle XYZ. [1 mark]






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42. There were 16 860 women at a concert.

There were 2974 more women than men at the concert.

(a) How many men were there?

(b) What was the total number of men and women?

Ans: (a)_____ [1 mark]

(b)_____ [2 marks]



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43. Jack has a total of 42 two-dollar and five-dollar notes in his piggy bank.
The total value of all the notes is $126.
What is the value of the two-dollar notes that Jack has in his piggy bank?

Ans: _____ [3 marks]



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44. The sum of three numbers is 7656. The first number is 1099 more than the second number. The third number is 877 less than the second number. Find the value of the second number?

Ans: _____ [4 marks]



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45. Mrs Kumar paid $14 438 for 5 similar laptops and 4 similar DVD players. If 1 laptop and 1 DVD player cost $2960 altogether, what was the cost of each DVD player?

Ans: _____ [4 marks]

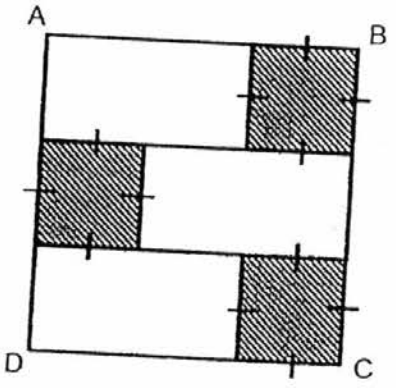


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46. Zachary had a square cardboard ABCD as shown below.
He drew 3 identical smaller squares on the cardboard and shaded them.
The area of each shaded square is 36 $cm^2$

a) Find the perimeter of 1 shaded square.

b) Find the area of the square cardboard ABCD.



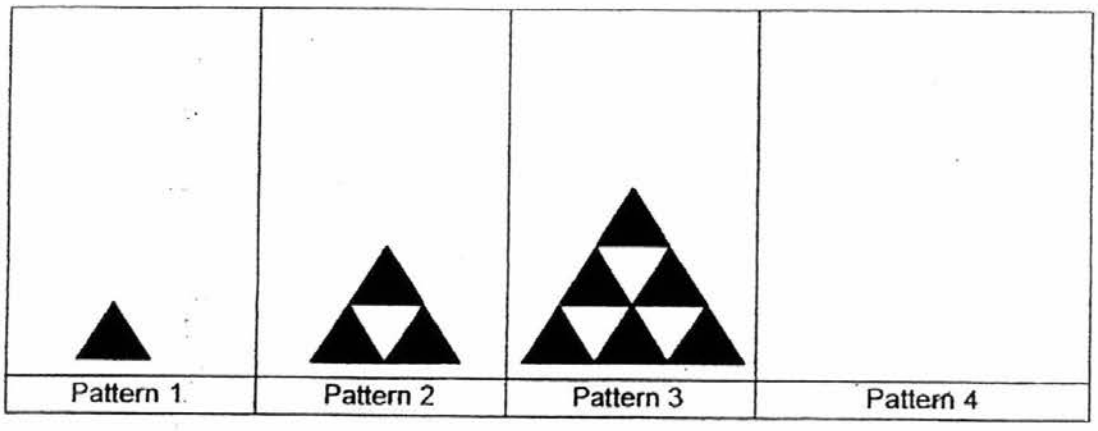

Ans: (a) _____ [2 marks]

(b) _____ [2 marks]



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47. The figures below are made up of shaded and unshaded triangles. Study the pattern below carefully.




(a) Draw Pattern 4 in the space provided above. [1 mark]

(b) How many unshaded triangles are needed to form Pattern 9?

(c) What is the total number of shaded and unshaded triangles needed to form Pattern 15?

Ans: (a) (b) _____ [2 marks]

(b) (c) _____ [2 marks]



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48. Kat and Alisha had $4880 altogether at first. After Kat spent $1301 and Alisha spent $2875, Kat had 3 times as much money as Alisha had left. How much money did Alisha have at first?

*[Draw a model to help you solve this problem.*
*One mark will be awarded for the correct model drawn and labelled.]*

Ans: _____ [5 marks]

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—— End of Booklet B ——



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YEAR : 2016
LEVEL : PRIMARY 4
SCHOOL : TEMASEK PRIMARY
SUBJECT : MATHEMATICS
TERM : SA1

## Booklet A

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

## Booklet B

Q21 Fifty nine thousand six hundred and forty.

Q22 8 000

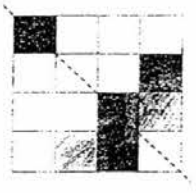
Q23 1 and 3

Q24 4

Q25

| Property | Figure A | Figure B |
|---|---|---|
| Its opposite sides are of equal length. | | ✔ |
| It has exactly one pair of parallel lines. | ✔ | |

Q26



Q27 51 855

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Q28 98 745

Q29 6 units → 471 – 13 – 13 – 13 = 432
1 unit → 432 ÷ 6 ⇒ 72 stamps

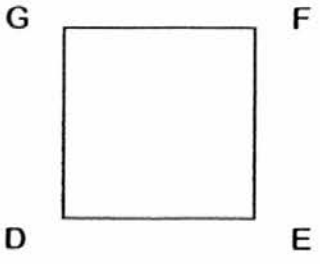
Q30 16 x 47 = 752
752 ÷ 7 = 107r3 ≈ 108 bags

Q31 ○ = $\sqrt{49} \rightarrow 7$

☆ = $\sqrt{64} \rightarrow 8$

7 x 8 ⇒ 56

Q32




Q33 August and September

Q34 August

Q35 120 °

Q36 A ⇒ 2

B ⇒ 8

Q37 8 right angles

Q38 Hawker Centre

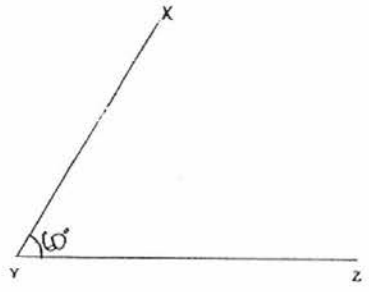


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Q39 17 gaps → 17 x 15 m ⇒ 255 m

Q40 Column C

Q41




Q42 (a) 16 860 – 2974 ⇒ 13 886 men

(b) Total → 13 886 + 16 860 ⇒ 30 746

Q43 $56

Q44 Extra → 877 + 877 + 1099 = 2853
3 units → 7656 – 2853 = 4803
1 unit → 4803 ÷ 3 = 1601
Value of the second number → 1601 + 877 ⇒ 2478

Q45 5 laptops + 5 DVD → $2960 x 5 = $14800
Cost of 1 DVD → 14800 – 14438 ⇒ $362

Q46 (a) Length of the shaded square → $\sqrt{36}$ = 6cm
Perimeter of 1 shaded square → 6 + 6 + 6 + 6 ⇒ 24 cm

(b) Area of cardboard ABCD →18 x 18 ⇒ 324 $cm^2$



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Q47 (a)

a)



Pattern 4

(b)

| Pattern | Unshaded △ |
|---|---|
| 1 | 0 + 1 |
| 2 | 1 + 2 |
| 3 | 3 + 3 |
| 4 | 6 + 4 |
| 5 | 10 + 5 |
| 6 | 15 + 6 |
| 7 | 21 + 7 |
| 8 | 28 + 8 |
| 9 | 36 |

Ans ⇒ 36 unshaded triangles

(c)

| Pattern | Total △ | Pattern Observed |
|---|---|---|
| 1 | 1 | 1 x 1 |
| 2 | 4 | 2 x 2 |
| 3 | 9 | 3 x 3 |
| 4 | 16 | 4 x 4 |
| 15 | 225 | 15 x 15 |

Ans ⇒ 225 triangles

Q48 Extra → \$1301 + \$2875 = \$4176
4 units → \$4880 - \$4176 = \$704
1 unit → \$704 ÷ 4 = \$176
Amount Alisha had at first → \$176 + \$2875 ⇒ \$3051

End



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