

NANYANG PRIMARY SCHOOL

**FIRST SEMESTRAL EXAMINATION
2018**

PRIMARY 4

**MATHEMATICS
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour 45 minutes

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.

Name: _____ ()

Class: Primary 4 ()

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) and shade your answer on the Optical Answer Sheet. (30 marks)

1. In 17 625, what does the digit 6 stand for?

- (1) 6
- (2) 60
- (3) 600
- (4) 6000

2. Which one of the following is 12 814 in words?

- (1) Twelve thousand, eight hundred and forty
- (2) Twelve thousand, eight hundred and fourteen
- (3) Twelve thousand, eighty-one hundred and four
- (4) Twelve thousand, eight hundred and forty-one

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

51 701 , 50 800 , 55 090 , 50 648

(greatest)

(smallest)

- (1) 55 090, 51 701, 50 800, 50 648
 - (2) 50 648, 50 800, 51 701, 55 090
 - (3) 55 090, 50 800, 51 701, 50 648
 - (4) 50 648, 51 701, 50 800, 55 090
4. A number when rounded to the nearest hundred is 6000. Which one of the following is the number?
- (1) 5648
 - (2) 5953
 - (3) 6097
 - (4) 6532
5. Which one of the following is **not** a factor of 63?

- (1) 9
- (2) 7
- (3) 3
- (4) 6

6. Which one of the following is an equivalent fraction of $\frac{3}{8}$?

(1) $\frac{11}{16}$

(2) $\frac{11}{24}$

(3) $\frac{9}{32}$

(4) $\frac{24}{64}$

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

$\frac{3}{4}$, $\frac{5}{12}$, $\frac{1}{2}$
--

(smallest) (greatest)

(1) $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{12}$

(2) $\frac{3}{4}$, $\frac{1}{2}$, $\frac{5}{12}$

(3) $\frac{5}{12}$, $\frac{1}{2}$, $\frac{3}{4}$

(4) $\frac{5}{12}$, $\frac{3}{4}$, $\frac{1}{2}$

8. What is the mixed number that is exactly halfway between $\frac{8}{7}$ and $\frac{12}{7}$?

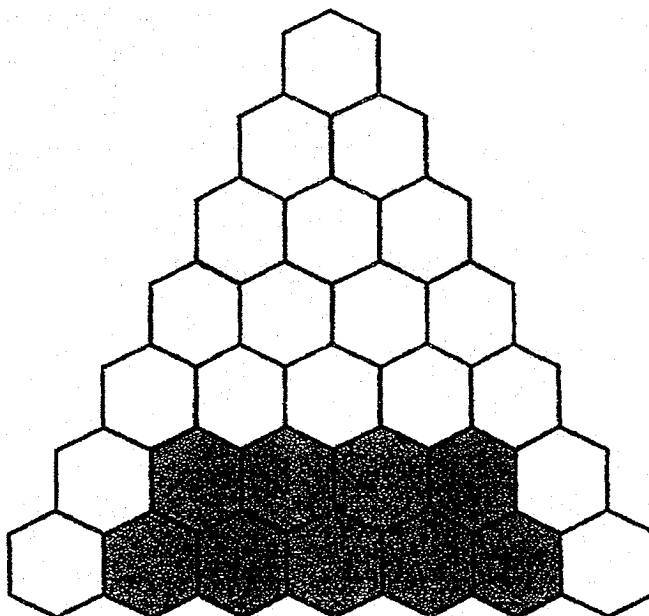
(1) $\frac{7}{10}$

(2) $1\frac{3}{7}$

(3) $1\frac{5}{7}$

(4) $10\frac{1}{7}$

9. The figure below is made up of 28 identical hexagons. How many **more** hexagons must be shaded so that $\frac{4}{7}$ of the figure is shaded?



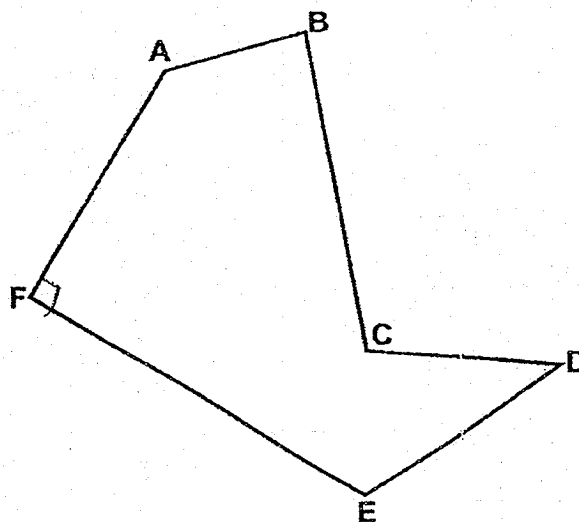
(1) 7

(2) 9

(3) 3

(4) 16

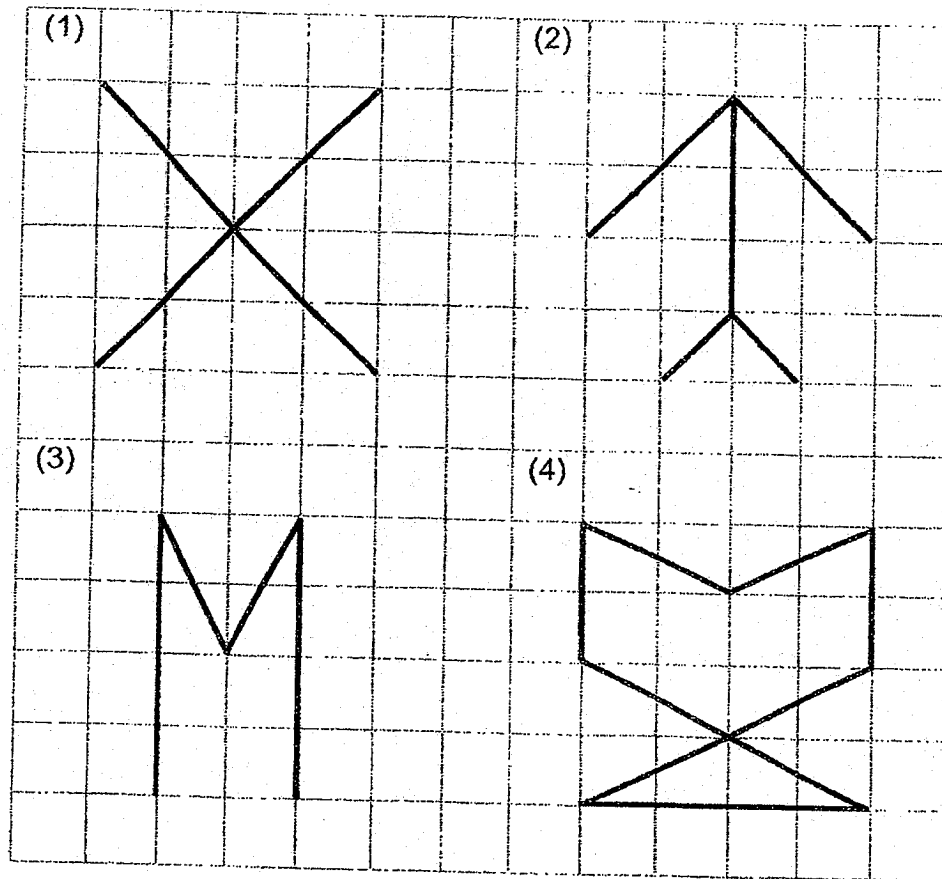
10. In the figure below, which angle is a right angle?



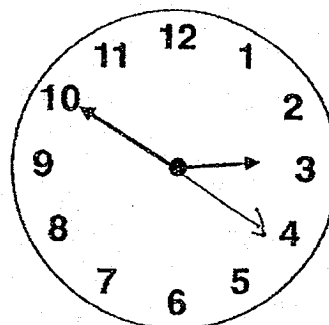
- (1) ABC
 - (2) AFE
 - (3) CDE
 - (4) DEF
11. A number when divided by 8 gives a quotient of 832 with no remainder. What is the number?

- (1) 104
- (2) 140
- (3) 6446
- (4) 6656

12. Which one of the following figures in the square grid below has both parallel lines and perpendicular lines?



13. The clock below shows 2.50 p.m. now. The minute-hand makes a half turn clockwise. What time will it be after the turn?



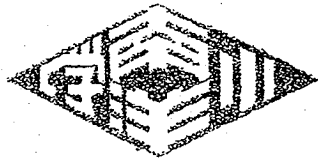
- (1) 2.20 p.m.
- (2) 3.20 p.m.
- (3) 3.30 p.m.
- (4) 3.50 p.m.

14. Using all the digits given below, form the greatest 5-digit odd number.

5 , 8 , 0 , 2 , 1

- (1) 85 210
 - (2) 85 201
 - (3) 81 025
 - (4) 10 285
15. Peter, John, Muthu and Albert speak a different foreign language, French, German, Japanese and Spanish, from each other. Each boy can only speak 1 foreign language. John speaks Spanish only. Peter does not speak German or French. Muthu speaks German only. Which foreign language does Albert speak?

- (1) French
- (2) German
- (3) Japanese
- (4) Spanish



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**FIRST SEMESTRAL EXAMINATION
2018**

PRIMARY 4

**MATHEMATICS
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

Name: _____ ()

Class: Primary 4 ()

Parent's Signature: _____

Booklet A	/ 30
Booklet B	/ 70
Total	/ 100

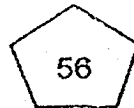
Any query on marks awarded should be raised by **17 May 2018**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results.

Questions 16 to 35 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. (40 marks)

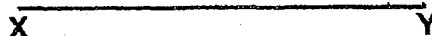
16. Write down **all** the common factors of 16 and 28.

Ans: _____

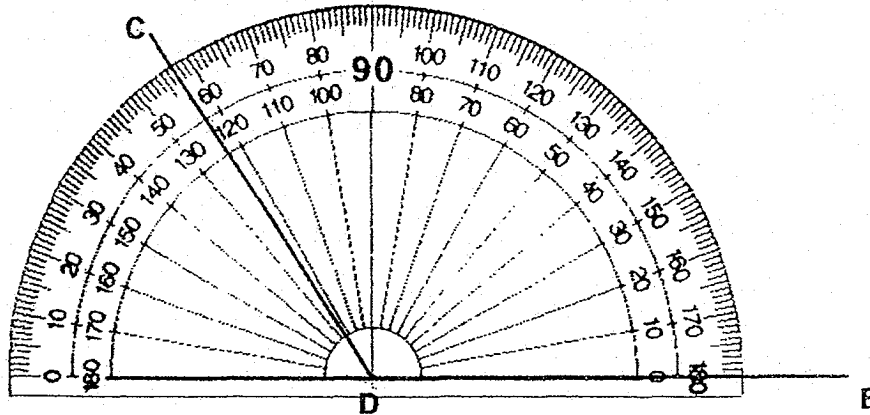
17. Circle the number which is a multiple of 8.



-
18. In the space below, draw $\angle XYZ = 80^\circ$ and line $YZ = 5$ cm.
Mark and label $\angle XYZ$.
The line XY has been drawn for you.

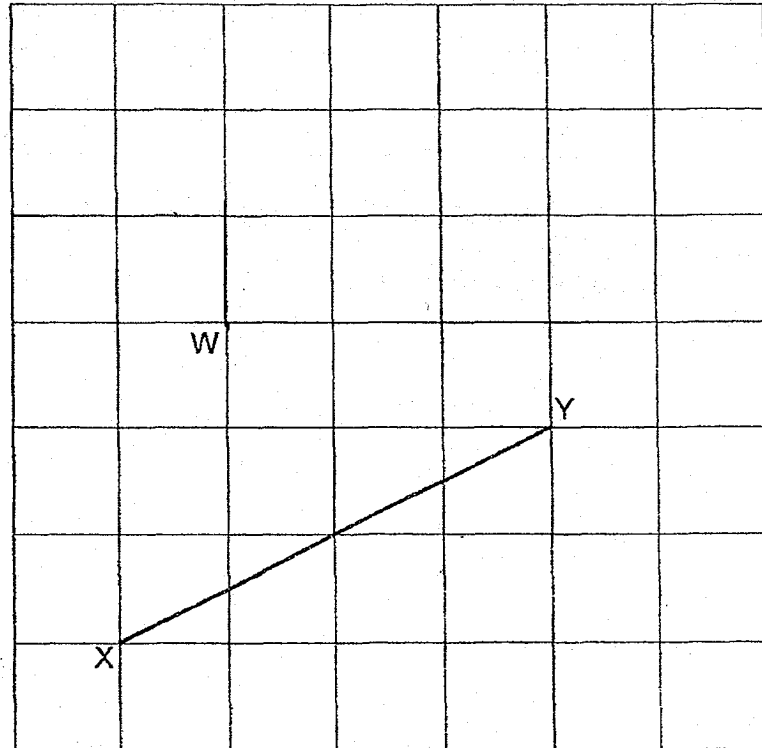


19. (a) What is the size of $\angle CDE$?



Ans: _____°

- (b) The figure shows a straight line XY and a point W.
Draw a line perpendicular to line XY through point W.



20. The square grid below shows the seating arrangement of students in a classroom.

Sophia (girl)	Kenny (boy)	Jia-En (girl)	Ravi (boy)
Max (boy)	Siti (girl)	Andie (boy)	Huiyin (girl)
Jay (boy)	Paul (boy)	Farah (girl)	Steve (boy)
Liting (girl)	Shane (boy)	Kumar (boy)	Kit (girl)

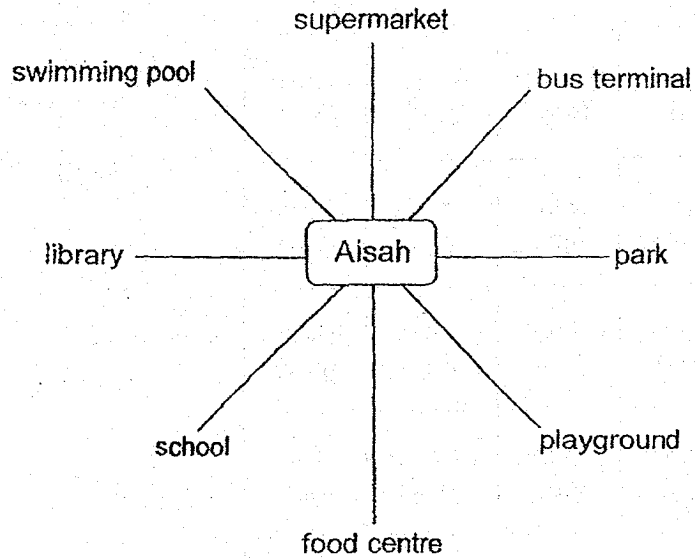


- (a) Paul's brother is seated to the north of him. Who is his brother?
- (b) Which student is seated south-west of Andie and south of Sophia?

Ans: (a) _____

(b) _____

21. Aisah is facing the food centre now. How many degrees in the anti-clockwise direction must she turn if she wants to face the swimming pool?



Ans: _____°

22. Complete the number pattern.

4584, 4884, 5184, 5484, _____, 6084

Ans: _____

23. Find the product of 209 and 56.

Ans: _____

24. What is the remainder when you divide 2039 by 4?

Ans: _____

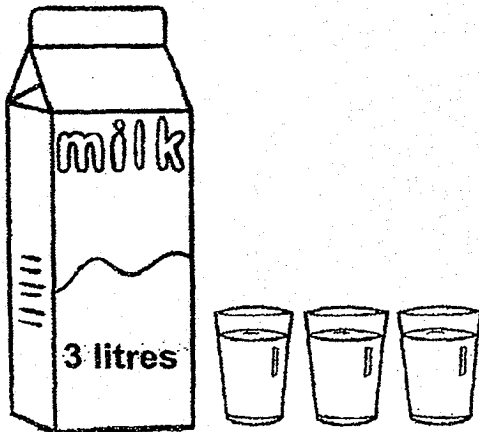
25. Peter has more than 20 paper clips. He wants to pack the paper clips into boxes. He can pack all the paper clips into boxes of 6 with no left over. He can also pack all the paper clips into boxes of 9 with no left over. What is the smallest possible number of paper clips Peter can have?

Ans: _____

26. Meena has 3768 buttons. Nancy has 280 more buttons than Meena. Siti has 450 fewer buttons than Nancy. How many buttons does Siti have?

Ans: _____

27. May bought a carton of milk as shown below. She poured out some of the milk into 3 glasses. Each glass contained $\frac{1}{5}$ litres of milk. How much milk was left in the carton? Express your answer as a mixed number in its simplest form.



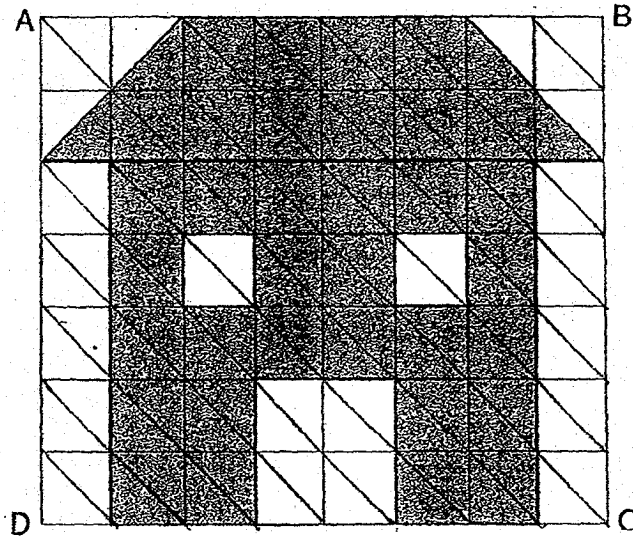
Ans: _____ litres

28. What is the missing number in the box?

$$\frac{38}{5} = 7 \frac{\boxed{?}}{10}$$

Ans: _____

29. In the figure below, rectangle ABCD is made up of 56 unit squares. What fraction of rectangle ABCD is shaded?



Ans: _____

30. Mr Chin bought a cake. His son ate $\frac{2}{3}$ of the cake and his wife ate $\frac{1}{4}$ of the cake. What fraction of the cake was left?

Ans: _____

31. Find the sum of 5 and $\frac{2}{3}$. Express your answer as an improper fraction in its simplest form.

Ans: _____

32. Amita spent $\frac{4}{9}$ of her money on clothes. She spent $\frac{1}{5}$ of her money on food. What fraction of her money did she spend more on clothes than on food? Express your answer in its simplest form.

Ans: _____

33. Sam jogged once every week. The distance that he jogged in a particular week was twice the distance that he jogged in the previous week. He jogged 700 m in the second week. What was the total distance that Sam jogged in the first 4 weeks?

Ans: _____ m

34. A bag containing a book has a total mass of $\frac{5}{8}$ kg. The same bag containing 2 such books weighs $\frac{3}{4}$ kg. What is the mass of the bag when it is empty?

Ans: _____ kg

35. Linda had a piece of wire. She used $\frac{2}{9}$ of the wire to make a triangle and the rest of the wire to make a square. The difference between the perimeter of the square and the perimeter of the triangle was 60 cm. What was the length of the original wire that Linda had?

Ans: _____ cm

For questions 36 to 43, show your working clearly 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)

36. Faizal had 278 potatoes. He packed all the potatoes into boxes of 9 with some left over.

(a) How many boxes of 9 potatoes did Faizal pack?

(b) How many potatoes were left over?

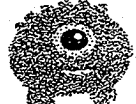
Ans: (a) _____ [2]

(b) _____ [1]

37. Jennifer bought some sweets for her friends. When she gave each of them 4 sweets, she would have 2 sweets left. When she gave each of them 5 sweets, she would need 3 more sweets. How many sweets did she buy?

Ans: _____ [3]

38. The table below shows the heights and masses of 3 monsters.

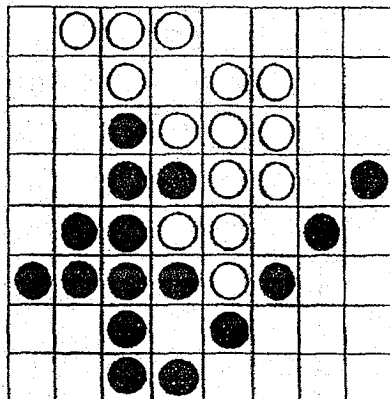
Monster	Height	Mass
Happy 	$\frac{5}{8}$ m	$\frac{9}{10}$ kg
Pinky 	$\frac{3}{4}$ m	$\frac{2}{5}$ kg
Gulpy 	$\frac{2}{5}$ m	?

- (a) What is the difference in height between Happy and Gulpy?
Express your answer in its simplest form.
- (b) The total mass of Pinky and Gulpy is $\frac{11}{12}$ kg. What is the mass of Gulpy?

Ans: (a) _____ [2]

(b) _____ [2]

39. Mingren and Ravi are playing a game by placing discs on the squares of an 8 by 8 game board.



● Mingren: black disc

○ Ravi: white disc

- (a) The board above shows the number of discs that each boy has placed currently. What fraction of the total discs shown on the board is white? Express your answer in its simplest form.
- (b) When all the 64 squares of the game board is filled with discs, $\frac{5}{8}$ of the discs on the board are placed by Mingren. How many more black discs did Mingren add to the board above?

Ans: (a) _____ [1]

(b) _____ [3]

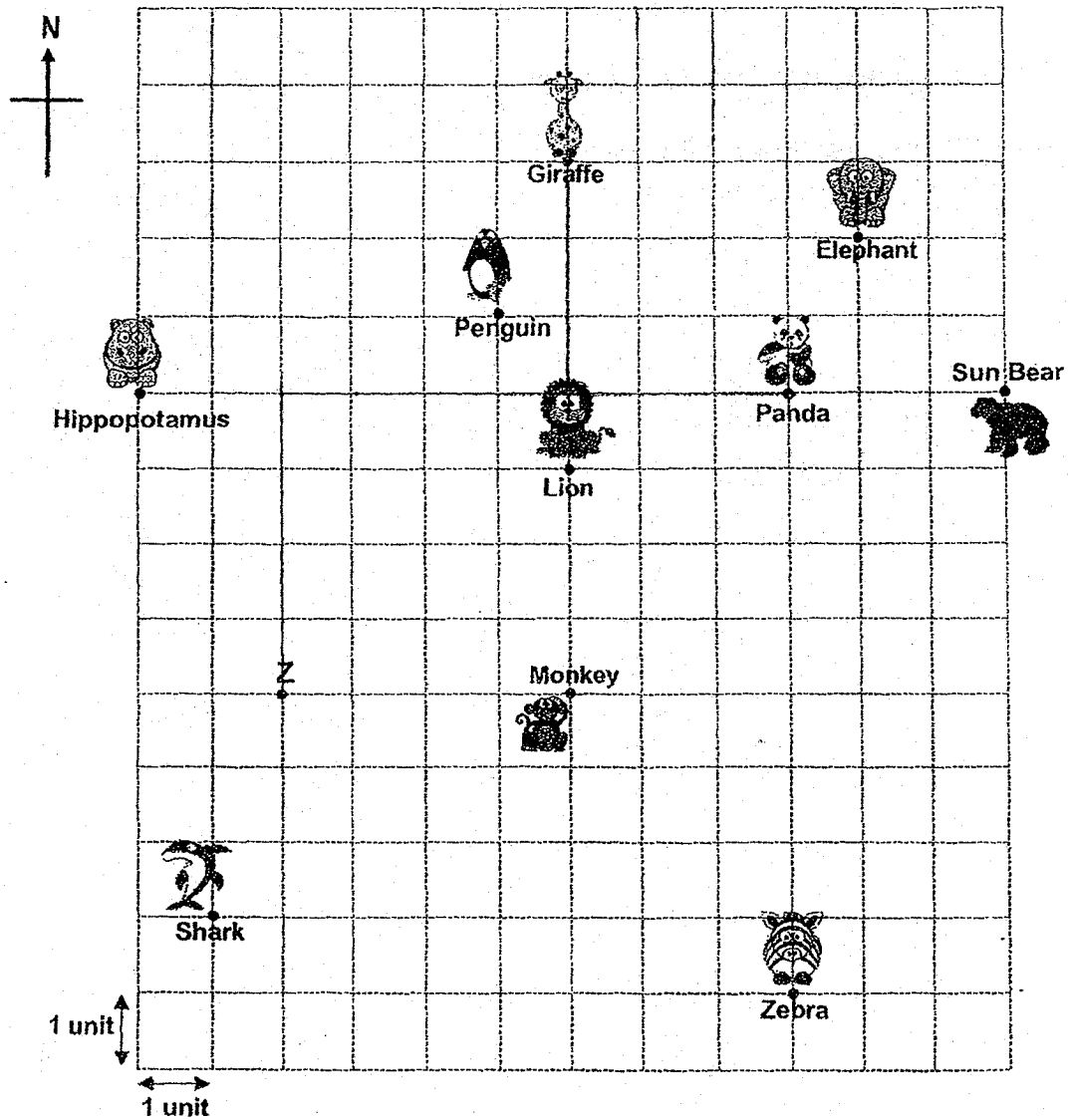
40. Alison and Benny have 3753 beads altogether. Alison and Charles have 6389 beads altogether. The number of beads Charles has is three times that of Benny.

- (a) How many beads does Benny have?
- (b) How many beads does Alison have?

Ans: (a) _____ [2]

(b) _____ [2]

41. Alfie, Paige and Harry are at the zoo. The points on the square grid below show the location of some animal enclosures.



- (a) Alfie is at Point Y facing north-west. How many quarter turns in the clockwise direction must he make in order to see the penguin enclosure?
- (b) Which animal enclosure is to the south of the lion enclosure?
- (c) Harry is at Point Z. He turned north and walked 4 units. Then, he turned east and walked 7 units. Which animal enclosure will he reach?
- (d) Paige was at a certain point on the square grid. She turned west and walked 5 units. Then, she turned south and walked 6 units and she reached the lion enclosure. Put a cross (X) on the square grid to show Paige's original position. [1]

Ans: (a) _____ [1]

(b) _____ [1]

(c) _____ [1]

42. Yasmin uses matchsticks to form figures that follow a pattern as shown below.

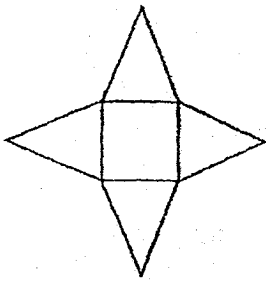


Figure 1

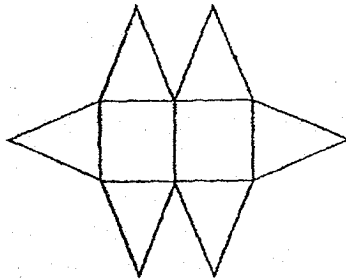


Figure 2

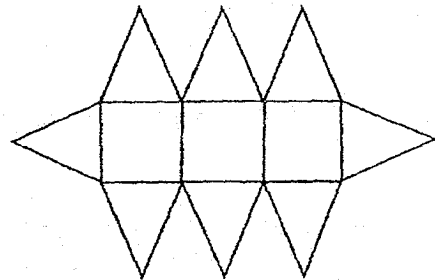


Figure 3

- (a) The table shows the number of triangles and matchsticks for the first three figures. Complete the table for Figure 4.

Figure	Number of triangles	Number of matchsticks
1	4	12
2	6	19
3	8	26
4		

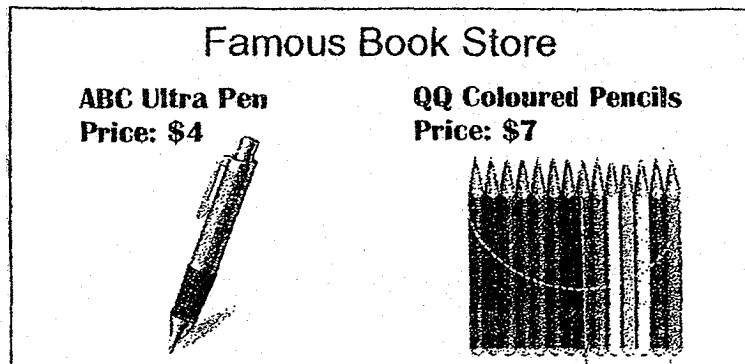
[2]

- (b) How many triangles are there in Figure 7?
- (c) How many matchsticks are used to form Figure 9?

Ans: (b) _____ [1]

(c) _____ [1]

43. Mrs Koh went to a book store.



Mrs Koh spent $\frac{5}{12}$ of her money to buy some pens and $\frac{1}{4}$ of her money to buy a few boxes of coloured pencils. She had \$112 left.

- (a) What fraction of her money was left? Express your answer in its simplest form.
- (b) How many boxes of coloured pencils did she buy?

Ans: (a) _____ [2]

(b) _____ [2]

End of Paper

SCHOOL : NANYANG PRIMARY SCHOOL

LEVEL : PRIMARY 4

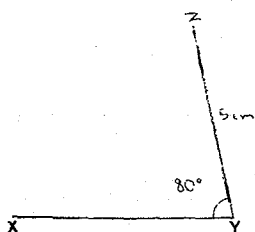
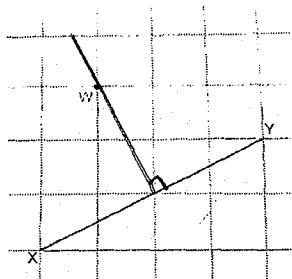
SUBJECT : MATH

TERM : 2018 SA1

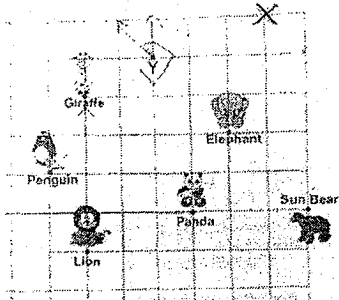
BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	2	1	2	4	4	3	2	1	2
Q 11	Q12	Q13	Q14	Q15					
4	2	2	2	1					

BOOKLET B

Q16)	1, 2, 4
Q17)	56
Q18)	
Q19)	(a) 123° (b) 
Q20)	a) Kenny b) Liting
Q21)	225

Q22)	5784
Q23)	11704
Q24)	3
Q25)	Multiples of 6 : 24, 30, 36 Multiples of 9 : 27, 36 Ans : 36
Q26)	$3768 + 280 = 4048$ $4048 - 450 = \mathbf{3598}$ (Ans)
Q27)	$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \frac{3}{5}$ $3 - \frac{3}{5} = 2\frac{2}{5}$ litres (Ans)
Q28)	$\frac{38}{5} = 7\frac{3}{5} = 7\frac{6}{10}$ Ans : 6
Q29)	$24 + 2 + 8 + 2 = 36$ $\frac{36}{56} = \frac{9}{14}$ (Ans)
Q30)	$\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$ $\frac{12}{12} - \frac{11}{12} = \frac{1}{12}$ (Ans)
Q31)	$5 + \frac{2}{3} = 5\frac{2}{3} = \frac{17}{3}$ (Ans)
Q32)	$\frac{4}{5} - \frac{1}{5} = \frac{20}{45} - \frac{9}{45} = \frac{11}{45}$ (Ans)
Q33)	$700 \div 2 = 350$ $350 \times 15 = \mathbf{5250}$ m
Q34)	$\frac{3}{4} - \frac{5}{8} = \frac{6}{8} - \frac{5}{8} = \frac{1}{8}$ (books) $\frac{5}{8} - \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ (Ans)
Q35)	$60 \div 5 = 12$ $12 \times 9 = \mathbf{108}$ cm
Q36)	$278 \div 9 = 30 \text{ R } 8$ (a) There were 30 boxes of potatoes. (b) There were 8 potatoes left.

Q37)	$5 - 4 = 1$ $2 + 3 = 5$ $5 + 1 = 5$ $5 \times 4 = 20$ $20 + 2 = \mathbf{22 \text{ (Ans)}}$
Q38)	a) $\frac{5}{8} - \frac{2}{5} = \frac{25}{40} - \frac{16}{40} = \frac{9}{40} \text{ m (Ans)}$ b) $\frac{11}{12} - \frac{2}{5} = \frac{55}{60} - \frac{24}{60} = \frac{31}{60} \text{ kg (Ans)}$
Q39)	a) $\frac{14}{30} = \frac{7}{15} \text{ (Ans)}$ b) $64 \div 8 = 8$ $8 \times 5 = 40$ $40 - 16 = \mathbf{24}$
Q40)	a) $6389 - 3753 = 2636$ 2 units $\rightarrow 2636$ 1 unit $\rightarrow 2636 \div 2 = \mathbf{1318}$ b) $3753 - 1318 = \mathbf{2435}$
Q41)	a) 3 b) Monkey c) Panda d) 
Q42)	a) 10, 33 b) $2 \times 7 = 14$ $14 + 2 = \mathbf{16}$ c) $33 + 5 \times 7 = \mathbf{68}$
Q43)	a) $112 \div 4 = 28$ $\frac{12}{12} - \frac{5}{12} - \frac{1}{4} = \frac{12}{12} - \frac{5}{12} - \frac{3}{12} = \frac{4}{12} = \frac{1}{3} \text{ (Ans)}$ b) $\\$112 \div 4 = \\28 $\\$28 \times 3 = \\84 $\\$84 \div \\$7 = \mathbf{12}$

