

METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887



MID-YEAR EXAMINATION 2012 PRIMARY 4 MATHEMATICS BOOKLET A

Total Time: 1 h 45 minutes

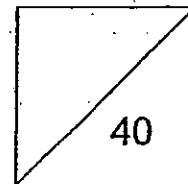
INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Name: _____ ()

Class: Primary 4. _____

Date: 9 May 2012



This booklet consists of 9 printed pages including this page.

Section A: (40 marks)**For each of the following question, four options are given.****One of them is the correct answer.****Make your choice (1, 2, 3, 4). Shade the oval (1, 2, 3, 4) on the Optical Answer Sheet.**

1. In 86 457, what does the digit 6 stand for _____?
 - (1) 6 tens
 - (2) 6 hundreds
 - (3) 6 thousands
 - (4) 6 ten thousands

2. Round off the sum of 87 645 and 489 to the nearest hundred.
 - (1) 88 000
 - (2) 88 100
 - (3) 88 130
 - (4) 88 134

3. The numbers below are arranged in ascending order.
What are the missing numbers in the blank?
14 635, 15 436, _____, _____, 16 563, 17291
 - (1) 15 436, 16 765
 - (2) 15 364, 16 567
 - (3) 15 463, 16 356
 - (4) 15 463, 16 653

(Go on to the next page)

4. Which of the following pair of numbers has 3 and 6 as its common factors?
- (1) 12 and 15
 - (2) 12 and 18
 - (3) 18 and 21
 - (4) 21 and 27
5. Which one of the following length of strings can be cut into equal lengths of 2 cm, 4 cm and 5 cm without any remainder?
- (1) 10 cm
 - (2) 20 cm
 - (3) 30 cm
 - (4) 50 cm
6. Which one of the following numbers when rounded off to the nearest ten is 4 860?
- (1) 4 865
 - (2) 4 864
 - (3) 4 854
 - (4) 4 851

(Go on to the next page)

7. What is the quotient when 3 294 is divided by 3?

- (1) 138
- (2) 198
- (3) 1 038
- (4) 1 098

8. An album has a mass of 325 g.

A diary weighs $\frac{1}{5}$ as much as the album.

What is the total mass of 2 such diaries and an album?

- (1) 65 g
- (2) 260 g
- (3) 390 g
- (4) 455 g

(Go on to the next page)

The table below shows the number of books sold by Mr Lim in 5 days. Study the table and answer questions 9 to 11.

		No. of books sold
Weekdays	Monday	36
	Tuesday	40
	Wednesday	50
Weekends	Saturday	60
	Sunday	100

9. $\frac{3}{4}$ of the books sold on Monday were Chinese books. How many Chinese books did Mr Lim sell that day?
- (1) 9
 (2) 18
 (3) 27
 (4) 34
10. What is the difference between the total number of books sold on weekends and weekdays?
- (1) 34
 (2) 46
 (3) 126
 (4) 160
11. On Saturday, the first 50 books were sold at \$10 each. The rest of the books were sold at \$8 each. How much did Mr Lim collect on Saturday from the sale of the books?
- (1) \$490
 (2) \$500
 (3) \$580
 (4) \$1380

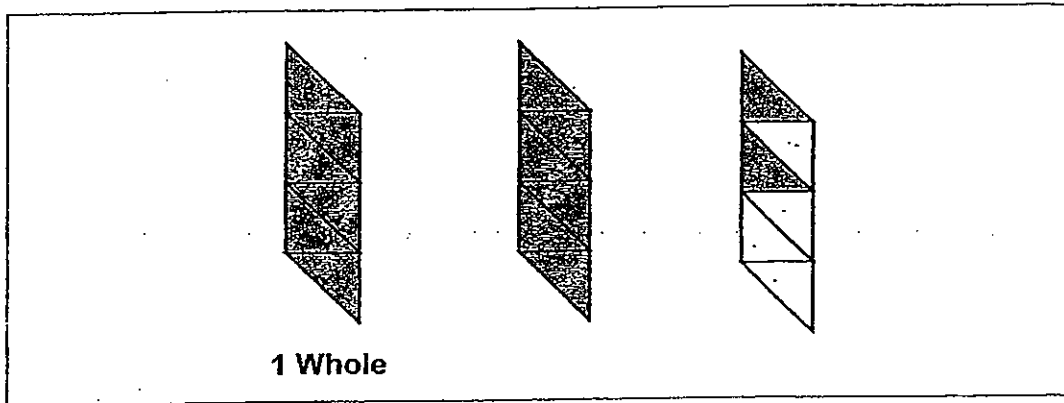
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12. $\frac{5}{6} + \frac{5}{6} + \frac{5}{6} = \frac{15}{\boxed{?}}$

What is the missing number in the box?

- (1) 6
- (2) 18
- (3) 24
- (4) 216

13. What fraction of the figure below is shaded?



- (1) $\frac{4}{6}$
- (2) $\frac{14}{6}$
- (3) $\frac{4}{18}$
- (4) $\frac{14}{18}$

(Go on to the next page)

14. How many quarters are there in $2\frac{3}{4}$?

- (1) 9
- (2) 6
- (3) 3
- (4) 11

15. $\frac{4}{9} + \frac{\boxed{?}}{18} = \frac{5}{6}$

What is the missing number in the box?

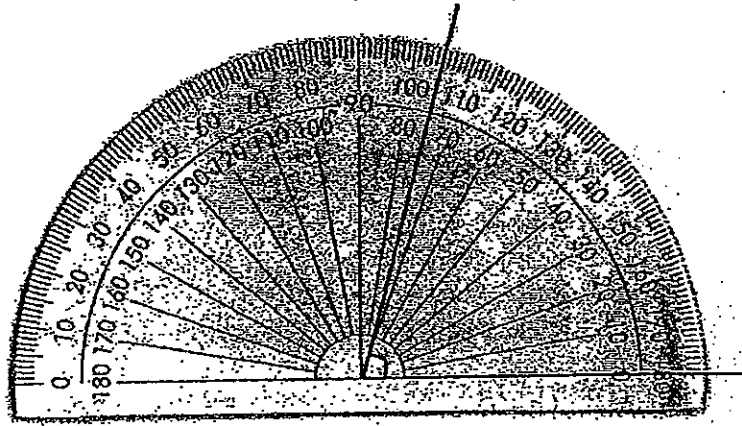
- (1) 1
- (2) 6
- (3) 7
- (4) 8

16. Ray collected 48 stamps. He gave $\frac{1}{3}$ of them away.
How many stamps had he left?

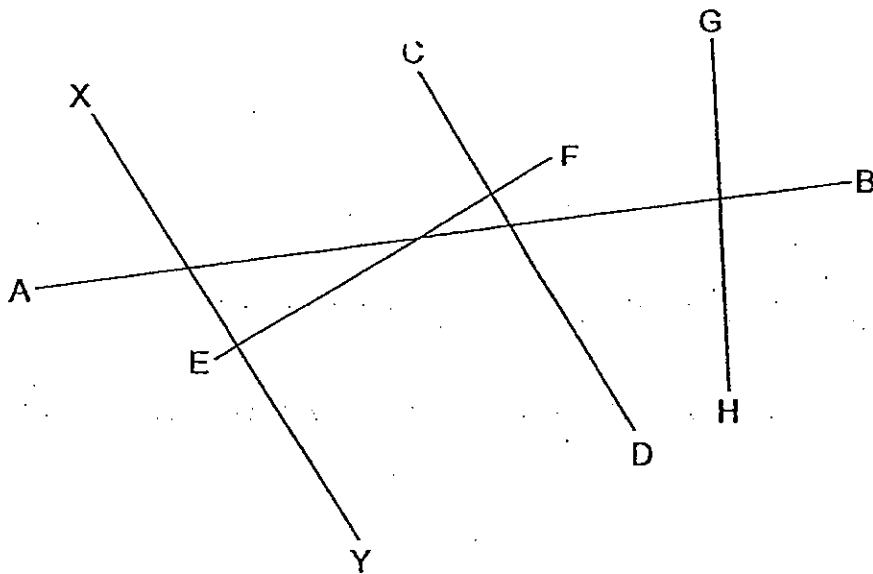
- (1) 16
- (2) 32
- (3) 36
- (4) 42

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17. What is the size of the angle in the figure below?



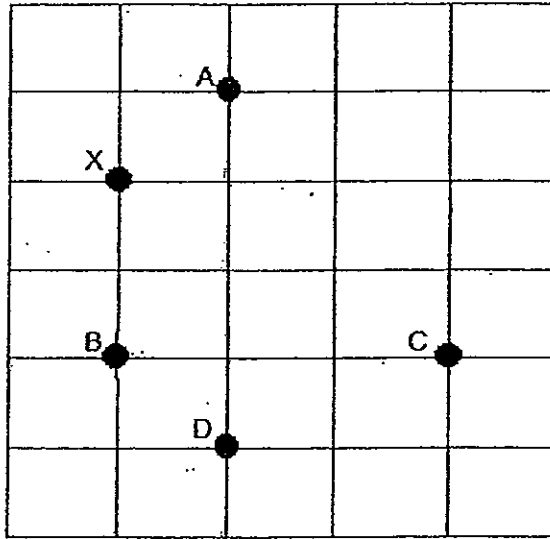
- (1) 65°
 (2) 75°
 (3) 115°
 (4) 125°
18. Which one of the following lines is perpendicular to XY?



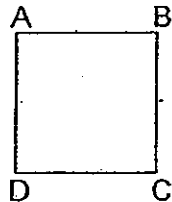
- (1) AB
 (2) CD
 (3) EF
 (4) GH

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19. David started at position X. He walked 2 steps North, 1 step East, 4 steps South and 1 step West. At which position will he be?



- (1) A
(2) B
(3) C
(4) D
20. ABCD is a square. The length of AB is 9 cm.
What is the perimeter of ABCD?



- (1) 9 cm
(2) 18 cm
(3) 36 cm
(4) 81 cm

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METHODIST GIRLS' SCHOOL (PRIMARY)

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MID-YEAR EXAMINATION 2012 PRIMARY 4 MATHEMATICS BOOKLET B and C

Total Time: 1 h 45 minutes.

INSTRUCTIONS TO CANDIDATES

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Name: _____ ()

Class: Primary 4. _____

Date: 9 May 2012

BOOKLET A	40
BOOKLET B	40
BOOKLET C	20
TOTAL	100

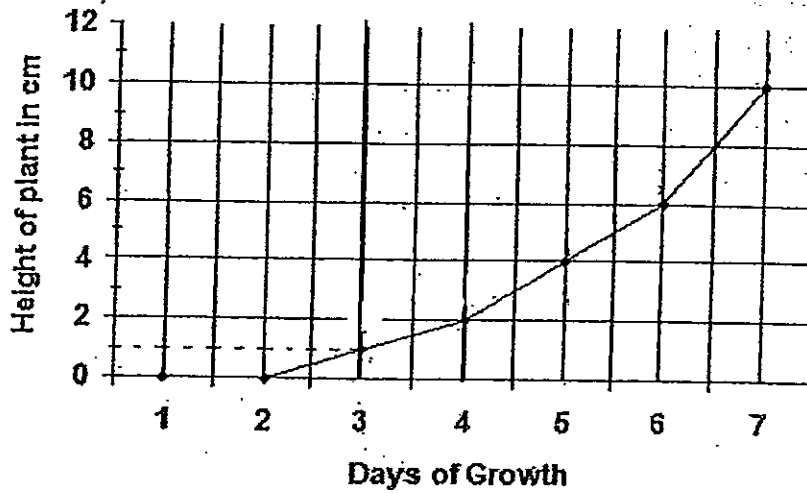
This booklet consists of 12 printed pages including this page.

Section B: (40 marks)

Write your answers in the space provided.

For questions which require units, give your answers in the units stated.

The graph below shows the growth of a bean plant. Study the graph carefully and answer questions 21 and 22.



21. What is the increase in height of the bean plant from Day 6 to Day 7?

Ans: _____ cm

22. How many days does it take for the bean to grow from 1 cm to 4 cm?

Ans: _____

23. What is the greatest number, which when rounded off to its nearest hundred, is 4 700?

Ans: _____

(Go on to the next page)

24. $\boxed{?} \div 7 = 191 \text{ R } 3.$

What is the missing number in the box?

Ans: _____

25. Using the digits 2, 3, 4, 5 and 7, form the smallest 5-digit even number.

Ans: _____

26. I am a 2-digit number. I have 4 factors. All my factors are odd numbers. I am between 10 and 20. What number am I?

Ans: _____

The table below shows how the pupils from Primary 4A come to school. Study the table carefully and answer questions 27 and 28.

	No. of boys	No. of girls	Total
By school bus	8	10	
Walk to school	?	7	?
By car	7	5	
Total	18	22	

27. How many pupils in Primary 4A walk to school?

Ans: _____

28. How do most of the pupils in Primary 4A come to school?

Ans _____

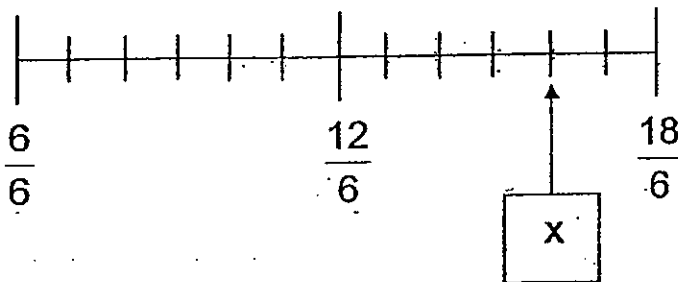
(Go on to the next page)

29. $4\frac{5}{6} = 1 + 1 + 1 + \frac{\boxed{?}}{6}$

What is the missing number in the box?

Ans: _____

30. In the number line below, what is the value of X?
Express your answer as a mixed number in its simplest form.



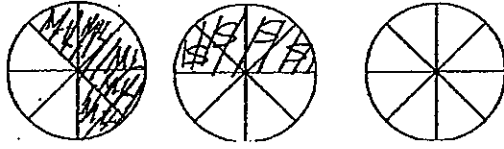
Ans: _____

31. Jayne had a whole bar of chocolate.
May had only part of an identical chocolate bar.
Jayne gave $\frac{1}{4}$ of her chocolate bar to May.
Both girls had the same length of the chocolate bar in the end.
What fraction of the chocolate bar had May at first?

Ans: _____

(Go on to the next page)

32. Mrs Lee baked 3 pizzas.
 She ate $\frac{5}{8}$ of a pizza and gave $\frac{1}{2}$ of another pizza to her son.
 What fraction of the pizza was left?
 Express your answer as a mixed number.

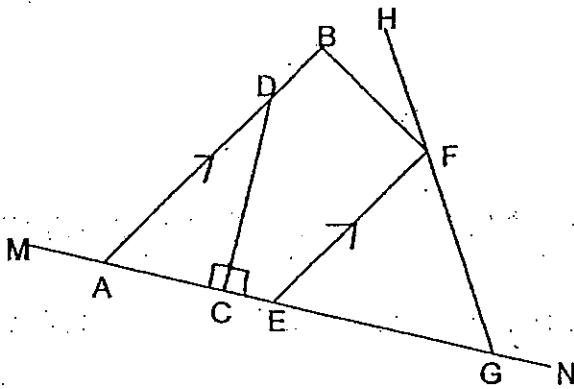


Ans: _____

33. Find the sum of $\frac{1}{5}$, $\frac{2}{15}$ and $\frac{1}{3}$
 Express your answer as an improper fraction

Ans: _____

34. (a) Name a line that is parallel to EF.
 (b) Name a line that is perpendicular to MN.

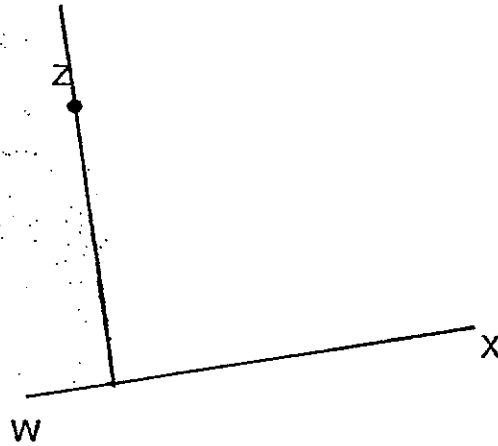


EF //

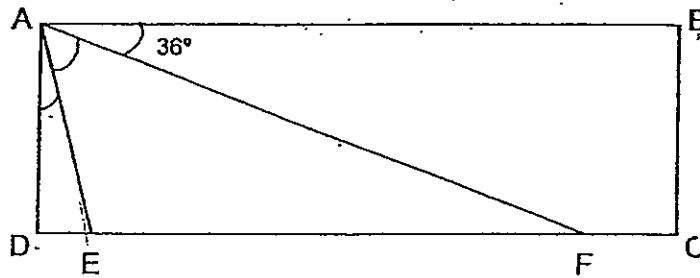
MN ⊥

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35. Use a set square and a ruler to draw a line perpendicular to WX through the point Z. Mark and label the angle.



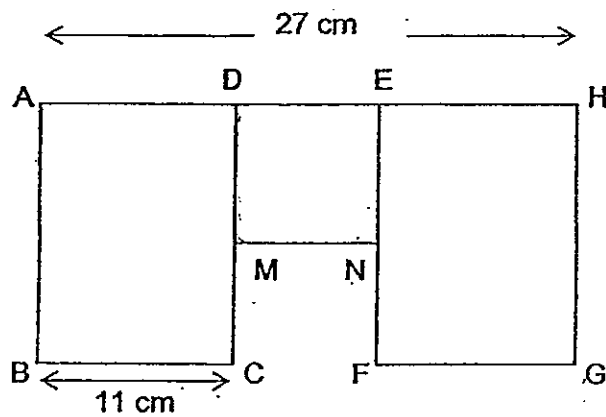
36. The diagram below is not drawn to scale. ABCD is a rectangle. $\angle EAF$ is twice the size of $\angle DAE$. Find $\angle DAE$



Ans: _____°

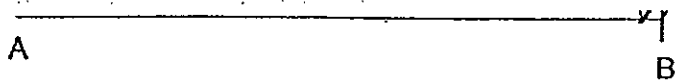
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37. The figure below is made up of 2 identical rectangles and a square. What is the length of DM ?



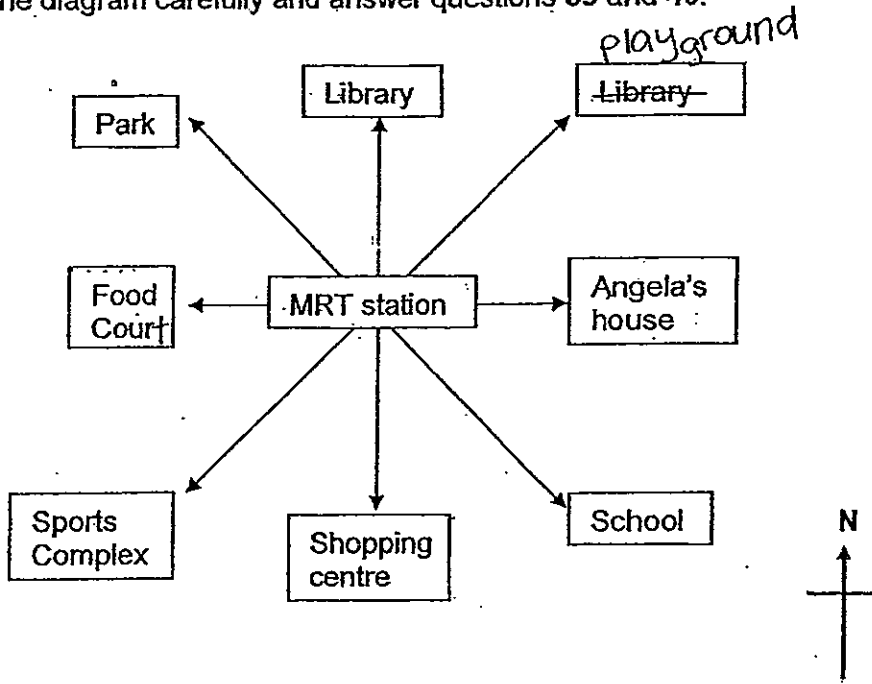
Ans: _____ cm.

38. Draw an angle at R such that $\angle ABC = 125^\circ$. Mark and label the angle.



(Go on to the next page)

Study the diagram carefully and answer questions 39 and 40.



39. The school is _____ of the MRT station.

Ans: _____

40. Angela is standing at the MRT station facing her house. She makes a $\frac{3}{4}$ - turn in an anti-clockwise direction. Where would she be facing?

Ans: _____

(Go on to the next page)

Section C: (20 marks)

Show your working clearly in the space provided for each question 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.

41. Carlene spent $\frac{1}{7}$ of her money on magazines and $\frac{1}{2}$ of her remaining money on a dress. She had \$27 left.
- (a) What fraction of her money was not spent?
- (b) How much money did she have at first?

Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

42. There are 3 times as many chicken pies as beef pies in a shop.
- (a) There are 36 chicken pies. What is the total number of pies in the Shop ?
- (b) The beef pies were sold at \$3 each and the chicken pies at \$2 each. How much did the shopkeeper collect from selling all the pies?

Ans: (a) _____ [2]

(b) _____ [2]

43. At a concert hall, the number of men was 3 times the number of women. The number of women was 5 times the number of children.
- (a) There were 125 children. How many more women than children were there?
- (b) How many men were there?

Ans: (a) _____ [2]

(b) _____ [2]

44. Ali wants to hang 3 bird cages between Cage A and Cage E as shown in the figure below.

The distance between Cage A and Cage E is 3m.

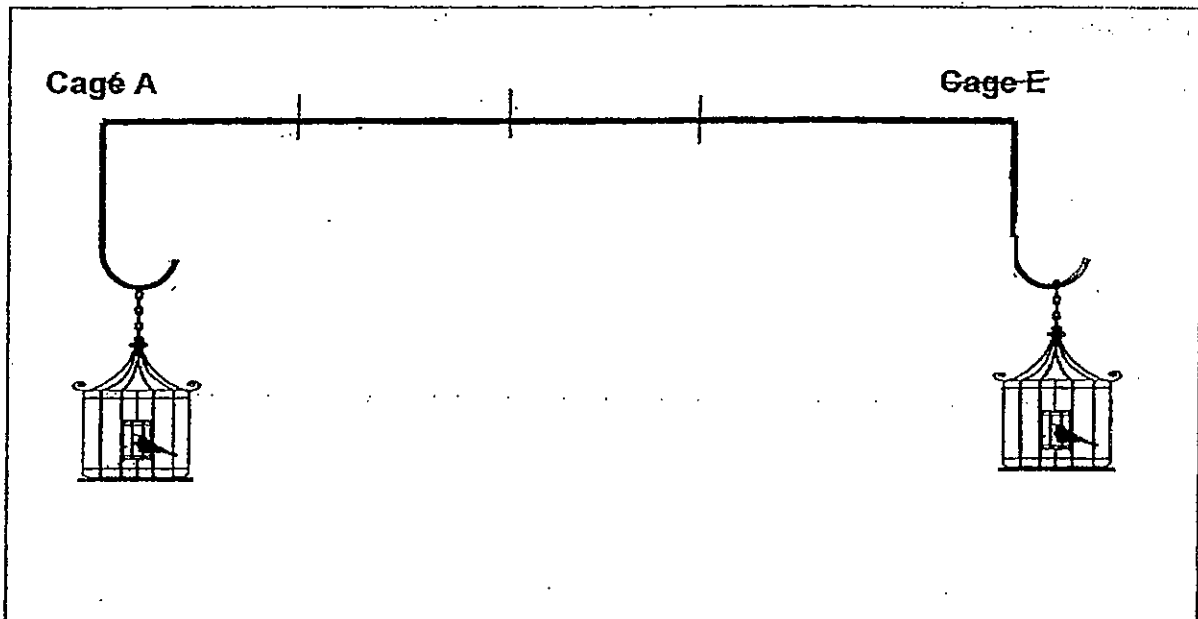
The distance between Cage C and Cage E is twice the distance between cages A and C.

- (a) How far is cage C from cage A?

- (b) Cage B is $\frac{1}{2}$ m from cage A and $1\frac{1}{4}$ m from cage D.

How far is cage D from cage E?

Express your answer as a mixed number.



Ans: (a) _____ [1]

(b) _____ [3]

(Go on to the next page)

45. Jess, Mabel and Kay had 192 beads altogether.
Kay had 16 beads more than Jess, and 44 beads more than Mabel.
After Jess had given 4 beads to Mabel, and Kay had given some beads
to Mabel, all of them had the same number of beads.

- (a) How many ^{beads} ~~marbles~~ did Mabel have at first?
(b) How many beads did Kay give to Mabel?

Ans: (a) _____ [2]

(b) _____ [2]

END OF PAPER

1920

1921

1922

1923

1924

1925

1926

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1929

1930

1931

1932

1933

1934

1935

1936

1937

1938

1939

1940

1941

1942

1943

1944

1945

1946

1947

1948

1949

1950

1951

1952

1953

1954

1955

1956

1957

ANSWER SHEET

EXAM PAPER 2012

SCHOOL : MGS
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA1

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

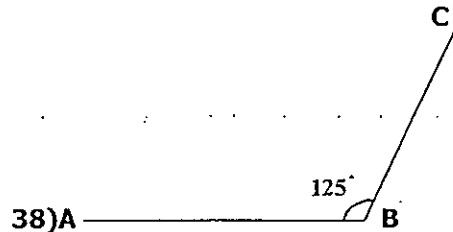
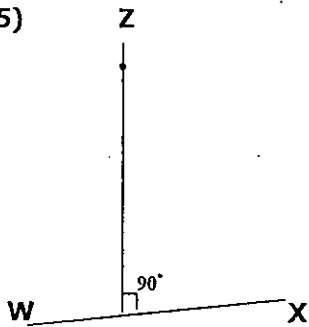
Q18	Q19	Q20
3	2	3

21)4cm 22)2 days 23)4749 24)1340 25)23574

26)15 27)10 28)By school Bus 29)11 30)22/3

31) $\frac{1}{2}$ 32)17/8 33)2/3 34)EF// AB , MN \perp DC

35) 36)18° 37)5cm



39)South-east

40)Shopping centre

41) $1 - \frac{4}{7} = \frac{3}{7}$

$3u \rightarrow \$27$

$27 \div 3 = 9$

$9 \times 7 = 63$

a) $\frac{3}{7}$ of the money was not spent

b) She had \$63 at first

42) Chicken



$36 \div 3 = 12$

$12 \times 4 = 48$

$36 \times 2 = 72$

$12 \times 3 = 36$

$72 + 36 = 108$

a) There are 48 pies in the shop.

b) The shopkeeper collected \$108.

43) $125 \times 4 = 500$

$125 \times 15 = 1875$

a) There were 500 more women than children.

b) There were 1875 men.

44) a) Cage C is 1m away from Cage A.

b) Cage D is $1\frac{1}{4}$ m far from Cage E.

45) $44 - 16 = 28$

$28 - 8 = 20$

$192 \div 3 = 64$

$64 - 24 = 40$

a) Mabel had 40 beads at first.

b) Kay gave Mabel 20 beads.