Rosyth School
Second Semestral Assessment 2012
Mathematics
Primary 3

100

Name: _____

Class: Pr 3-_____ Register No.: _____ Duration: 1h 45 min

Date: 29 Oct 2012 Parent's Signature: _____

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 3 parts, Sections A, B and C.
4. For questions 1 to 20 in Section A, shade the correct ovals on the Optical Answer Sheet (OAS).
5. ANSWER ALL THE QUESTIONS.

	Maximum	Marks Obtained
Section A	40	
Section B	40	
Section C	20	
Total	100	

This paper consists of 21 pages altogether (including cover page).

Section A (40 marks)
For questions 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals (1, 2, 3 or 4) onto the Optical Answer Sheet provided. Each question carries 2 marks.

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1. The height of a classroom door is about _____.

   (1) 100 cm

   (2) 200 cm

   (3) 10 m

   (4) 20 m

2. Ahmad baked 2 900 cookies. He packed them into packets of 100 cookies.

   How many packets of cookies did he have?

   (1) 9

   (2) 29

   (3) 290

   (4) 2 900

3. The difference between two numbers is 532. The greater number is 1 083. What is the other number?

   (1) 551

   (2) 555

   (3) 611

   (4) 615

4. Farmer Lee harvested 864 apples. He wanted to pack them equally into boxes of 8. After packing some of them into 88 boxes, how many more boxes would he need to pack the rest of the apples?

(1) 20

(2) 97

(3) 108

(4) 196

5. Alice gave away all her stickers to Sally and Tommy. She gave 237 stickers to Sally. Tommy received 68 fewer stickers than Sally. How many stickers did Alice give away altogether?

(1) 169

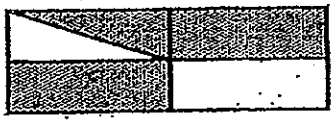
(2) 305

(3) 406

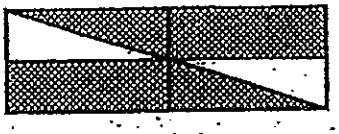
(4) 542

6. Which one of the following shows that $\frac{3}{4}$ of the figure is shaded?

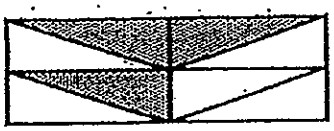
(1)



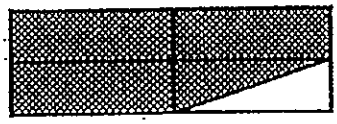
(2)



(3)



(4)



75.

7. Adele bought a pizza which is cut into 8 equal slices.
Bob ate 5 slices. Carl ate 1 slice.
What fraction of the pizza was not eaten?

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

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

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

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

8. Which of the following fractions is the smallest?

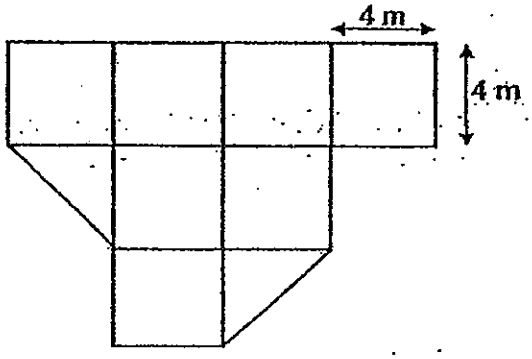
(1) $\frac{1}{2}$

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

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

(4) $\frac{7}{12}$

9. Find the area of the figure below.



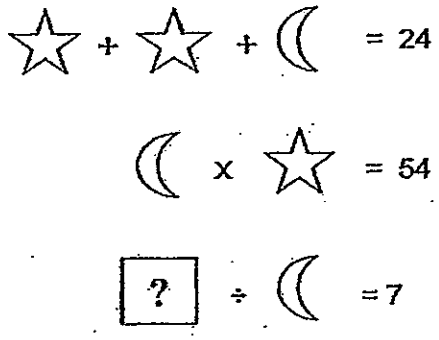
(1) 16 m^2

(2) 32 m^2

(3) 128 m^2

(4) 144 m^2

10.



What is the missing number in the box above?

(1) 42

(2) 49

(3) 56

(4) 63

11. There were 3 classes of children going on a trip. Each class had 42 children. A school mini-bus could transport a maximum of 20 children. How many mini-buses would be needed to transport all the children?

(1) 6

(2) 2

(3) 3

(4) 7

71.

Study the advertisement below and answer the questions 12 and 13.

HARI RAYA SALE

Camera $160

Mouse $23.30

Guitar $788.50

Headphones $54 .75

Printer $235.99

12. Mr Ho bought a pair of headphones, a printer and a mouse for himself. How much did he pay for the three items?

(1) $202.94

(2) $213.04

(3) $313.04

(4) $314.04

13. Miss Lee bought for her children a mouse and a camera. How much change should she get if she gave the cashier two $100 notes?

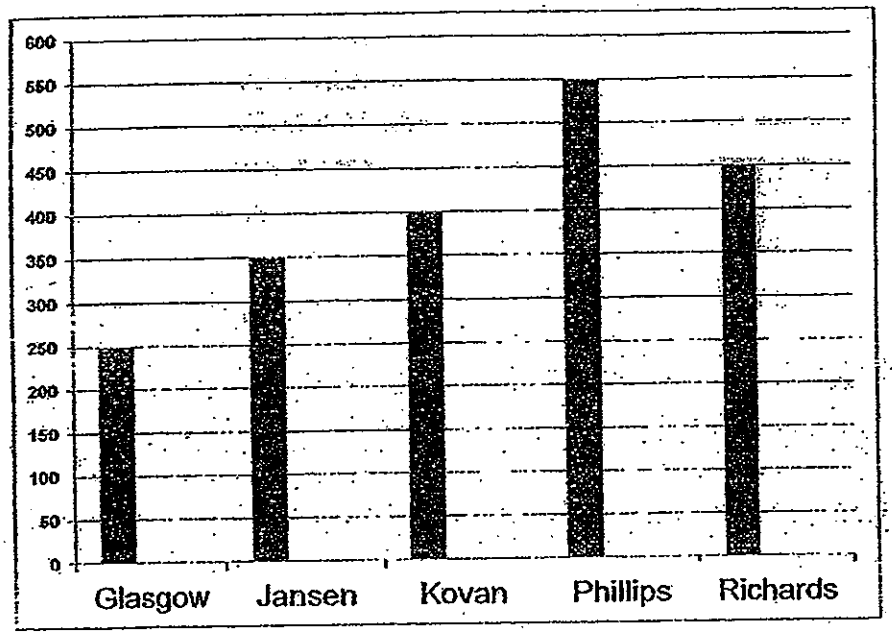
(1) $16.70

(2) $83.30

(3) $167.00

(4) $383.30

The bar graph below shows the points won by the different houses during the Lower Primary Sports. Study the bar graph below and answer Questions 14 and 15.



14. Which of the houses won more than 300 points but less than 450 points?

(1) Glasgow and Jansen

(2) Phillips and Richards

(3) Kovan and Phillips

(4) Jansen and Kovan

15. What is the total number of points won by the top 3 houses?

(1) 550

(2) 1000

(3) 1400

(4) 2000

16. What is the total capacity of the two containers shown below?

1 000 *mℓ*

2 ℓ 500 *mℓ*

(1) 1 ℓ 500 *mℓ*

(2) 3 ℓ 000 *mℓ*

(3) 3 ℓ 500 *mℓ*

(4) 12 ℓ 500 *mℓ*

17. James ran 1 630 m. Howard ran 530 m less than him.

How far did the two boys run altogether?

(1) 1 km 100 m

(2) 2 km 160 m

(3) 2 km 730 m

(4) 3 km 790 m

18. Old MacDonald had the same number of chickens and goats on his farm. Each chicken has 2 legs while each goat has 4 legs. He counted that there were a total of 216 legs. How many chickens did he have on his farm?

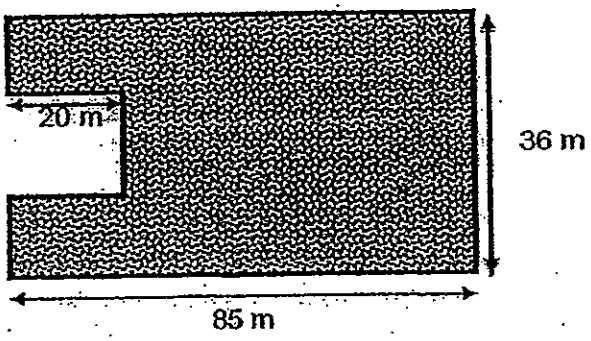
(1) 18

(2) 36

(3) 72

(4) 144

19. The diagram below shows Mr Lim's garden.



Mr Lim built a fence around the garden.

What was the total length of the fence?

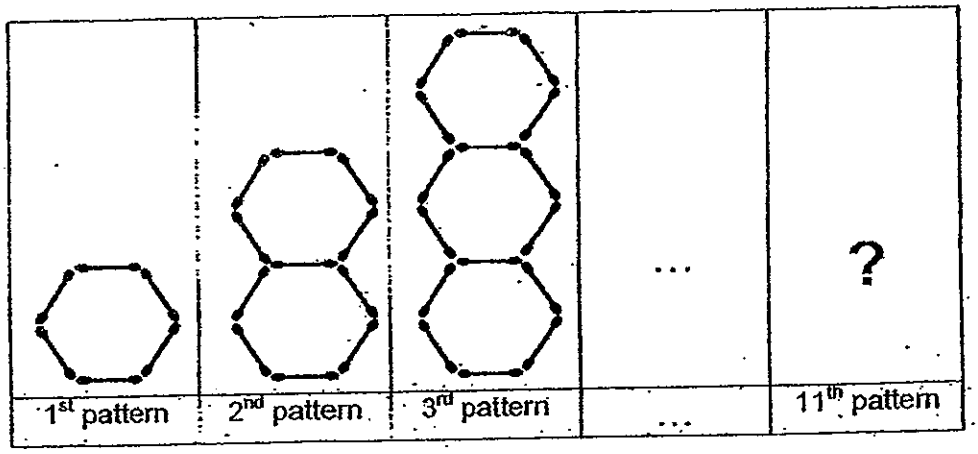
(1) 141 m

(2) 242 m

(3) 276 m

(4) 282 m

20. The following picture patterns are formed by using sticks.
Study them carefully.



How many sticks will be needed to form the 11th pattern?

(1) 55

(2) 56

(3) 66

(4) 67

Section B (40 marks)
For questions 21 to 40, show your working clearly in the space below each question and write your answer in the answer boxes provided. Give your answers in the units stated. Each question carries 2 marks.

21. Use all the digits below to form the smallest 4-digit even number.

9	2	7	0

22. Joanne bought 36 balloons to decorate her house for her daughter's birthday party. Her husband bought 8 times as many balloons as her. How many balloons did they buy altogether?

23. Mrs Suresh had a roll of ribbon measuring 410 cm. She cut 9 equal pieces from it and was left with 5 cm. How long was each piece of the ribbon that she had cut?

cm

24. Shawn had 112 boxes of pens. In each box, there were 8 pens. He then repacked them into bundles of 5. How many pens would be left over?

The table below shows some information of the number of cans Mrs Chin collected in 6 days. For each subsequent day, she always collected the same number of cans more than the previous day.

Use the information to answer Questions 25 and 26.

Day	Number of cans collected
Monday	10
Tuesday	18
Wednesday	?
Thursday	34
Friday	42
Saturday	?

25. How many cans did Mrs Chin collect on Wednesday?

26. How many cans would she have collected in the 6 days?

27.

25 cents

$1.20

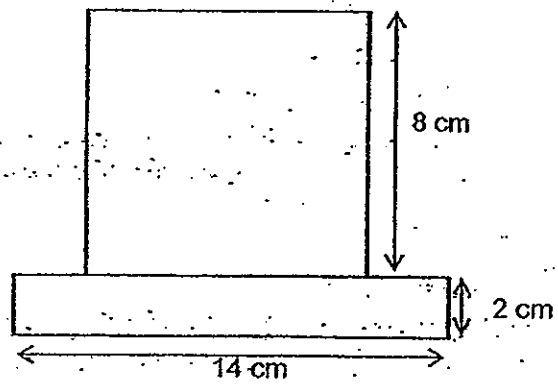
$1.80

Amelia bought 5 pencils, 2 pairs of scissors and a stapler.

She gave $10 to the cashier. How much change did she get?

$

28.

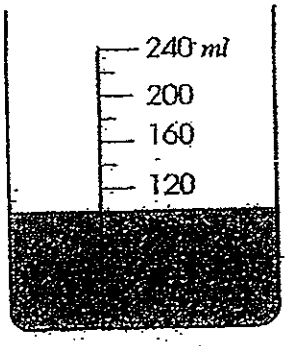


The figure above is made up of a square and a rectangle.

Find the area of the figure.

cm^2

29. Study the diagram carefully. If I need 200 ml of water, what is the volume of water I must add into the container?

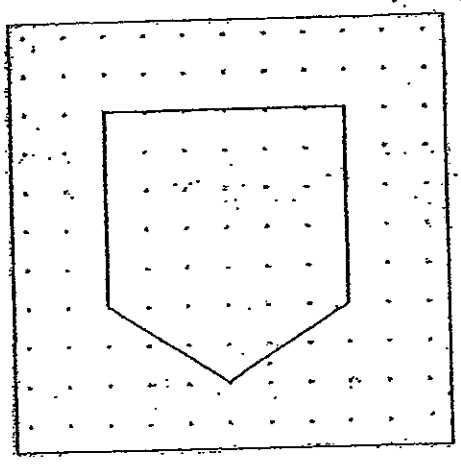


ml

30. A dog has a mass of 28 kg. It is four times as heavy as a puppy.
What is their total mass?

kg

31. A shape is formed on the geoboard shown below.



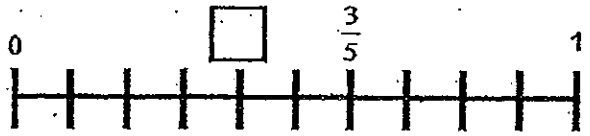
Mark all the angles in the shape that are bigger than a right angle.

25.

32. What is the missing number in the box?

$$\frac{3}{12} + \frac{\square}{4} = 1$$

33. What is the missing fraction in the box? Leave your answer in the simplest form.

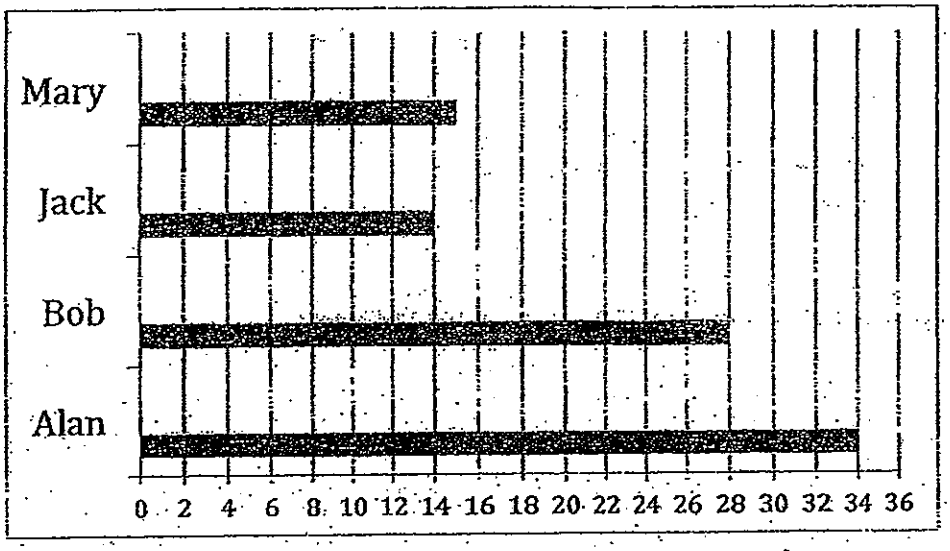


34. Jane baked a cake.

She gave $\frac{2}{3}$ of the cake to her mother and ate $\frac{1}{6}$ of it.

What fraction of the cake was she left with?

The bar graph shows the number of stickers each pupil has.



Study the graph above carefully and answer questions 35 to 37.

35. Who has twice the number of stickers Jack has?

36. What is the total number of stickers the children have?

37. If Bob gave 20 of his stickers to Jack, how many more stickers will Jack have than Mary?

31.

Look at the following word carefully and answer Questions 38 and 39.

MATHS

38. What are the letters with at least one pair of parallel lines?

39. What are the letters with at least one pair of perpendicular lines?

40. Daisy had fewer than 30 pencils to give away to all her friends. When she gave 6 pencils to each of her friends, she would have 3 pencils left but when she gave each of them 8 pencils, she would be 3 pencils short. How many friends did she give her pencils away to?

Section C (20 marks)
For questions 41 to 45, show your working clearly in the space below each question and write your answers in the blanks provided. The marks for each question or part question are given in the brackets.

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41. Kate bought a box of chocolates. She gave away $\frac{2}{9}$ of the chocolates to her brother. She ate some of the chocolates and had $\frac{1}{3}$ of the chocolates left. What fraction of the chocolates did she eat?

Answer: _____ (4 m)

39.

42. David, Harry and Fandi had 511 stamps altogether.
David had 38 stamps more than Harry.
Fandi had 75 more stamps than David.
How many stamps did Harry have?

Answer: _____ (4 m)

43. There were a total of 586 participants in a sports carnival.
There were 7 times as many men as women.
There were 35 more women than children.
How many children participated in the sports carnival?

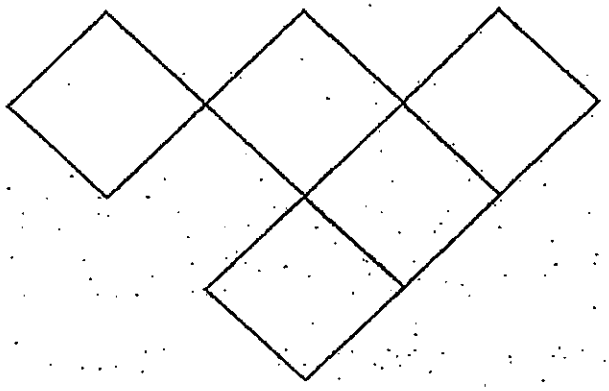
Answer: _____(4 m)

41.

44. The figure below is made up of 5 similar squares.
The length of each of the squares is 3 m.

a) What is the perimeter of the figure?

b) What is the area of the figure?



Answer: a) _____ (2m)

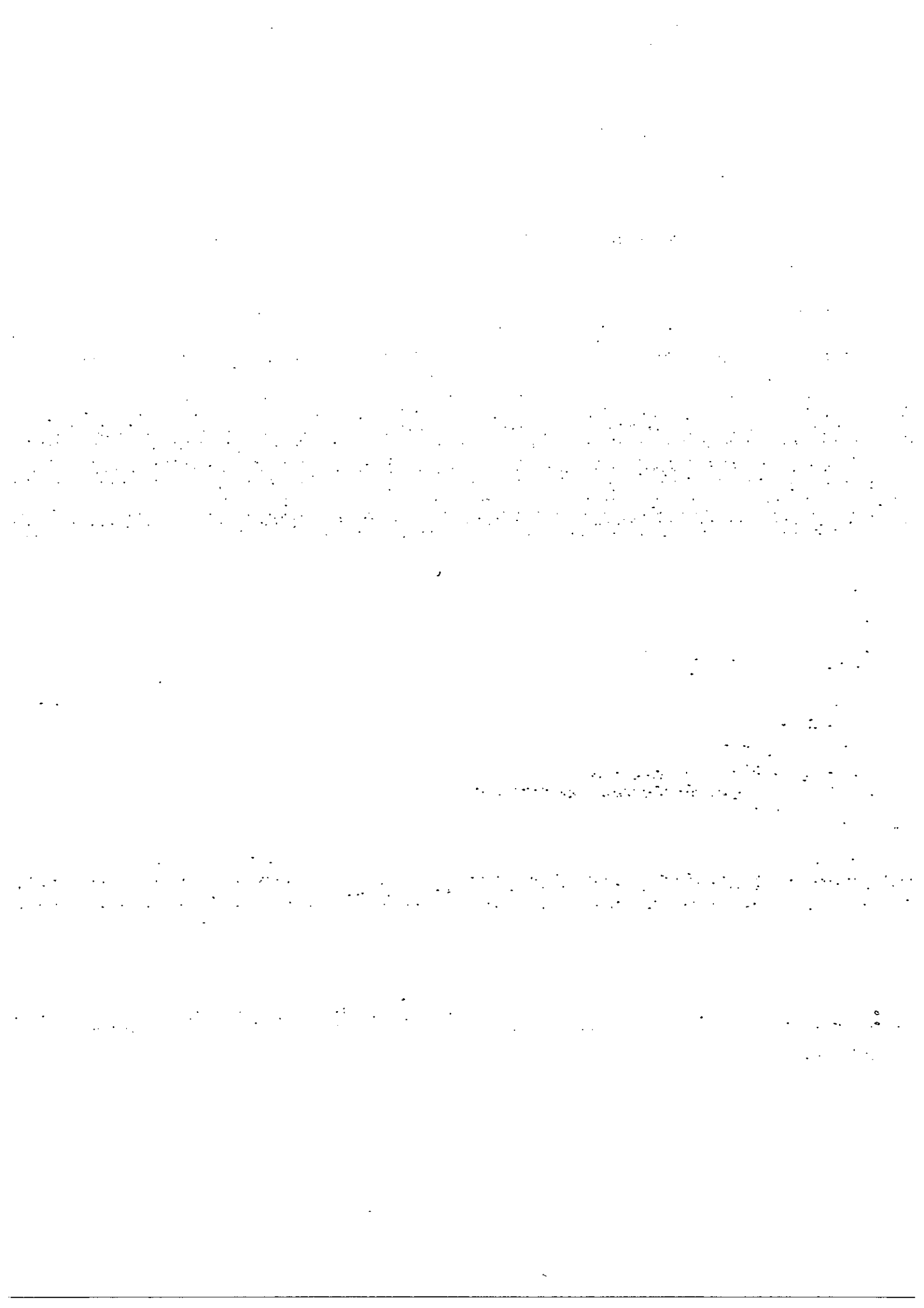
b) _____ (2m)

45. Lily has $12. She wants to buy a box of pencils for $3.80, 5 rulers which cost 30 cents each and 3 notebooks which cost $3 each.
How much more money does she need?

Answer: _____(4 m)

~END OF PAPER~
Have you checked your work thoroughly?

43.



Answer Ke

EXAM PAPER 2012
SCHOOL : ROSYTH SCHOOL
SUBJECT : PRIMARY 3 - MATHEMATICS
TERM : SA2

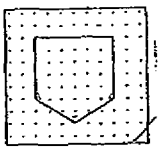
Booklet A

1) 2	2) 2	3) 1	4) 1	5) 3	6) 2	7) 1	8) 3	9) 3	10) 1
11) 4	12) 4	13) 1	14) 4	15) 3	16) 3	17) 3	18) 2	19) 4	20) 2

21) 2790 22) 324 23) 45 24)1 25) 26 26) 180 27) $4.55 28) 92

29) 100 30) 35

31)



32) 3 33) 2/5 34) 1/6 35)Bob 36) 91 37) 19 38) M,H 39) T,H

40) 3

41) 1/3 x 3 = 3/9
2/9 + 3/9 = 5/9
9/9 – 5/9 = 4/9
She ate 4/9 of the box of chocolates.

45.

42) 38 x 2 = 76
76+75 = 151
511-151=360
360/3= 120
Harry have 120 stamps.

43)35x8=280
586-280=306
306 / 4 = 34
There were 34 children.

44a) 3 x 14 = 42
The perimeter is 42 cm.
44b) 9 x 5 = 45
The area is $45m^2$

45) 30 x 5 =150
3 x3 = 9
1.50 + 9 = 10.50
10.50 + 3.80 = 14.30
14.30 – 12.00 = 2.30
She needs $2.30 more.