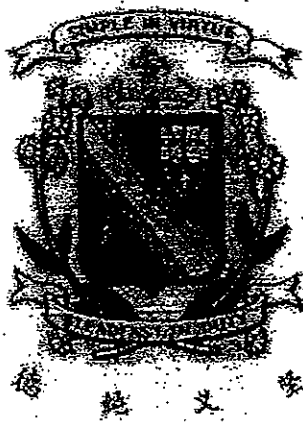


Name: \_\_\_\_\_ ( )

Class: Primary 4 \_\_\_\_\_

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**



**Primary 4 Mathematics**

**2012 Semestral Assessment 2**

**22<sup>nd</sup> October 2012**

**Booklet A**

Duration of Paper: 1 h 45 min

**INSTRUCTIONS TO CANDIDATES**

Do not open the booklet until you are told to do so.

Follow all instructions carefully.

This booklet consists of 6 printed pages including the cover page.

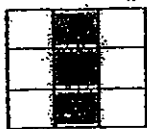
**Section A: (16 × 2 marks)**

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.

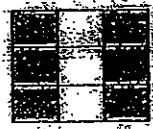
1. The value of the digit 4 in 64 312 is \_\_\_\_\_.

- (1) 40
- (2) 400
- (3) 4000
- (4) 40 000

2. Which of the following has  $\frac{1}{3}$  of the figure shaded?



(1)



(2)



(3)



(4)

3. 41 tenths and 15 hundredths is the same as \_\_\_\_\_.

- (1) 0.425
- (2) 0.560
- (3) 4.115
- (4) 4.250

4. How many one-eighths are there altogether in 3 wholes?

- (1)  $1\frac{3}{8}$
- (2)  $3\frac{1}{8}$
- (3) 8
- (4) 24

5. Write  $12\frac{3}{12}$  as a decimal.

- (1) 12.36
- (2) 12.312
- (3) 12.25
- (4) 12.036

6. Find the sum of  $99\frac{8}{1000}$  and  $120\frac{49}{1000}$ . Round off the answer to the nearest tenth.

- (1) 219.0
- (2) 219.8
- (3) 219.9
- (4) 220.0

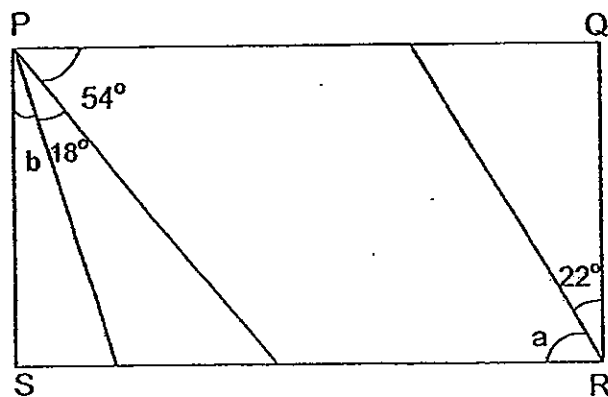
7. Kenneth sold some packets of sweets and chocolates at a funfair. Each packet contained 6 sweets and 2 bars of chocolates. How many sweets did he sell if he had sold 102 bars of chocolates?

- (1) 13
- (2) 17
- (3) 57
- (4) 306

8. Jovan started to paint his bedroom at 10 35. He took 7 h 35 min to complete the painting. At what time did he finish painting his bedroom?

- (1) 6.10 a.m.
- (2) 8.10 a.m.
- (3) 6.10 p.m.
- (4) 8.10 p.m.

9. In the figure, PQRS is a rectangle. Find the difference between  $\angle a$  and  $\angle b$ .


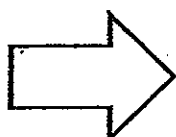
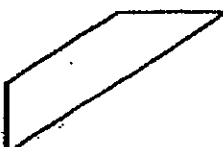
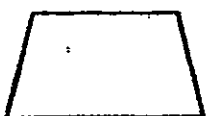


- (1)  $50^\circ$
  - (2)  $76^\circ$
  - (3)  $86^\circ$
  - (4)  $94^\circ$
10. Which of the following are common factors of 27 and 54?
- (1) 2 and 3
  - (2) 3 and 8
  - (3) 3 and 9
  - (4) 6 and 9
11. What is the value of the digit '8' in the product of 12.08 and 7 ?
- (1) 8 tens
  - (2) 8 ones
  - (3) 8 tenths
  - (4) 8 hundredths

12. A piece of cloth is 16.8m long. It is cut into 2 pieces. The longer piece is 1.3m longer than the shorter piece. What is the length of the shorter piece of cloth?

- (1) 15.50 m
- (2) 8.40 m
- (3) 7.75 m
- (4) 7.70 m

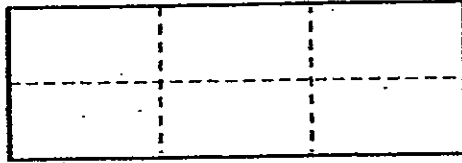
13. Which of the following figures has perpendicular lines?

- (1) 
- (2) 
- (3) 
- (4) 

14. Kumar and Samuel shared the cost of a present for their friend. Kumar paid  $\frac{3}{4}$  of the cost of the present. Samuel paid the remaining \$24. What was the cost of the present?

- (1) \$ 18
- (2) \$ 42
- (3) \$ 32
- (4) \$ 96

15. The figure below is made up of identical rectangles. The length of each rectangle is twice of its breadth. The area of the figure is  $108 \text{ cm}^2$ . Find the perimeter of the figure.

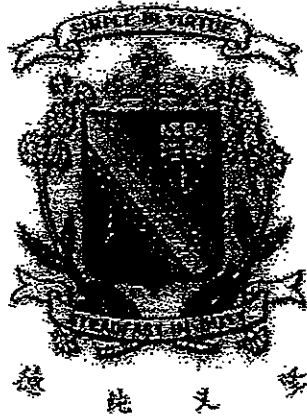


- (1) 18 cm  
(2) 48 cm  
(3) 54 cm  
(4) 72 cm
16. Jackson has \$30 worth of stamps. Half of the stamps are \$1 stamps. The rest of the stamps are 50¢ stamps and 20¢ stamps. He has \$8 worth of 50¢ stamps and \$1 worth of 20¢ stamps. How many stamps does Jackson have altogether?
- (1) 18  
(2) 21  
(3) 36  
(4) 42

Name: \_\_\_\_\_ ( )

Class: Primary 4 \_\_\_\_\_

**CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**



**Primary 4 Mathematics**

**2012 Semestral Assessment 2**

**Booklet B**

**22<sup>nd</sup> October 2012**

Section A	32
Section B & C	68
Total	100

Duration of Paper: 1 h 45 min

**INSTRUCTIONS TO CANDIDATES**

Do not open the booklet until you are told to do so.

Follow all instructions carefully.

This booklet consists of 14 printed pages including the cover page.

SECTION B: ( 20 X 2 marks)

Do  
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Write your answers in the blanks provided. Show your working clearly. Leave your answers in the units stated.

---

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

4649 , 4499 , 4349 , \_\_\_\_\_ , 4049

Ans : \_\_\_\_\_

18. What is the value of  $\frac{5}{8} + \frac{3}{4}$  ?  
Express your answer as a mixed number.

Ans : \_\_\_\_\_

19. Round off 43549 to the nearest hundred.

Ans : \_\_\_\_\_





Do not  
write  
this side

20.  $5908 \div 7 =$  \_\_\_\_\_

Ans : \_\_\_\_\_

21. The capacity of a bottle is  $1.24 \ell$ . The capacity of a flask is twice the capacity of the bottle. What is the total capacity of 3 such bottles and 2 such flasks?

Ans : \_\_\_\_\_  $\ell$

22. Find the value of  $0.58 \times 7$ .

Ans : \_\_\_\_\_

23. Roslinda took a flight from Singapore to Japan. When it is 06 00 in Singapore, it is 07 00 in Japan. The flight was 6 hours 45 minutes long. When Roslinda landed in Japan, the clock in the airport showed 12 15. What was the time in Singapore when Roslinda's flight departed? Express your answer using the 24-h clock.

Ans : \_\_\_\_\_



24. The table below shows the survey results of a group 235 Primary 4 pupils on the number of times they exercise in a week.

Do writ  
this

No. of times pupils exercise in a week	0	1	2	3	4
No. of pupils	37	48	82	37	31

- i) Find the number of pupils who exercise at least twice a week.  
 ii) What fraction of the total number of pupils exercise less than twice a week? Leave your answer in the simplest form.

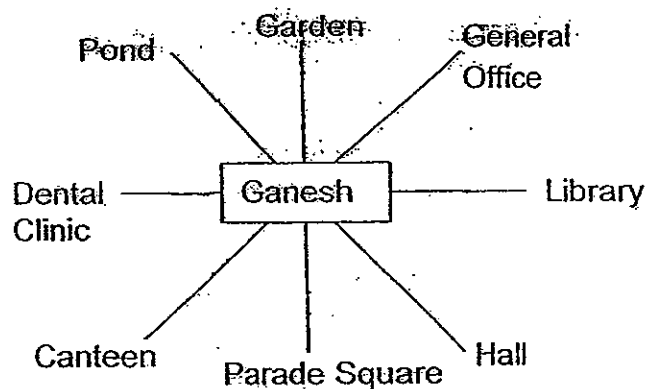
Ans : i) \_\_\_\_\_

Ans : ii) \_\_\_\_\_

25. Express 0.6 as a fraction.

Ans : \_\_\_\_\_

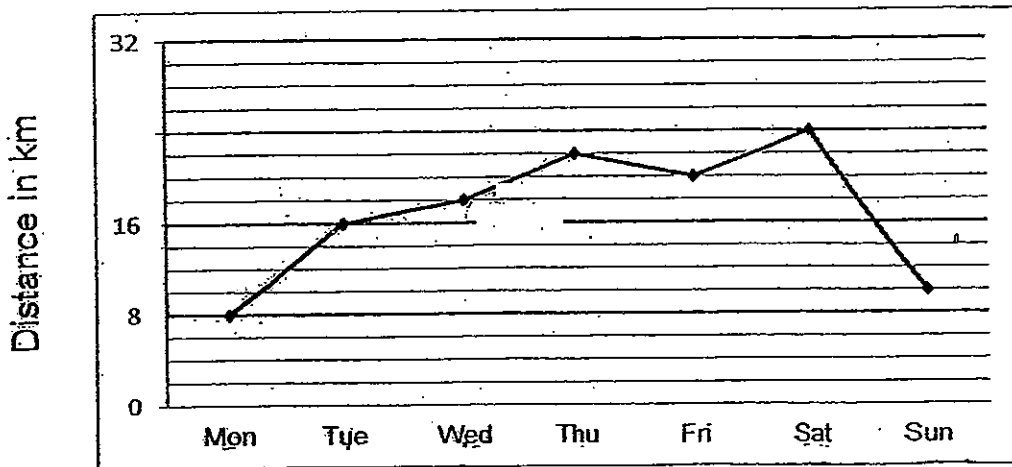
26. Ganesh is facing the canteen. He turns  $135^\circ$  anti-clockwise and then turns  $90^\circ$  clockwise. Where is he facing now?



Ans : \_\_\_\_\_

27. The line graph below shows the distance Katie cycled for a particular week.

Do  
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this

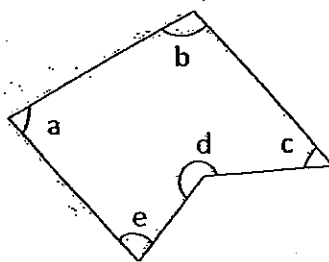


- i) How many days did Katie cycle for more than 10 km but less than 20 km?
- ii) Find the total distance Katie had cycled.

Ans : i) \_\_\_\_\_

Ans : ii) \_\_\_\_\_ km

28. In the figure, name the two angles that are greater than  $90^\circ$



Ans :  $\angle$  \_\_\_\_\_ and  $\angle$  \_\_\_\_\_



29. Which two of the fractions below are smaller than  $\frac{1}{2}$ ?

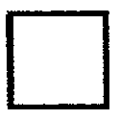
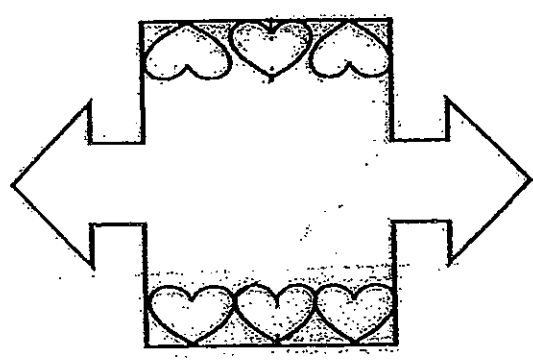
$$\frac{3}{8}, \frac{2}{4}, \frac{5}{11}$$

Ans : \_\_\_\_\_ and \_\_\_\_\_

30. What is the difference between 129 hundredths and 23 thousandths? Round off your answer to 2 decimal places.

Ans : \_\_\_\_\_

31. The following is a symmetric figure. Draw a line to show the line of symmetry.



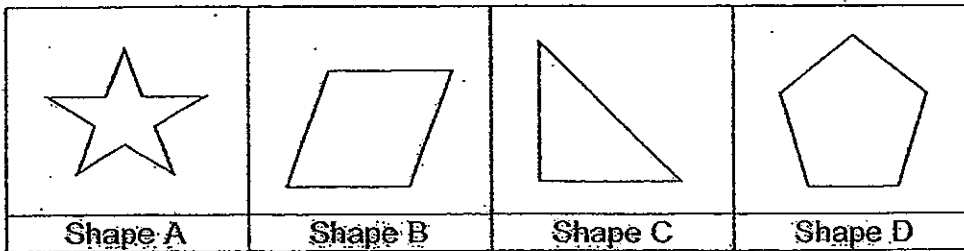
Do not  
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32. Arrange the following numbers in order from the greatest to smallest.

0.079, 0.709, 0.907

Ans : \_\_\_\_\_  
(greatest) (smallest)

33. The diagram below shows 4 different unit shapes.  
Which of the unit shape(s) can be tessellated?



Ans : \_\_\_\_\_

34. Raja drove from Singapore to Malacca. He drove for  $2\frac{1}{4}$  h and arrived at his destination at 19 05. At what time did he leave Singapore? Leave your answer in 12-h clock.

Ans : \_\_\_\_\_

35. The figure is made of 2 identical rectangles, P and Q, and square R. Each rectangle has a perimeter of 48cm. The length of the rectangle is twice of its breadth. Find the area of the figure.



Ans: \_\_\_\_\_ cm<sup>2</sup>

36. Every day, during lunchtime, Nelson and Benson will deliver 240 packets of lunchbox to the Sweet Home estate's residents. For every 9 packets of lunch box delivered by Nelson, Benson will deliver 2 more packets than he does. How many packets of lunch box are delivered by Benson every day?

Ans : \_\_\_\_\_



SECTION C: (28 marks)

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Solve the following problems. All mathematical working and statements must be shown clearly.

37. The prices of two sizes of vases at a shop are shown below.

Small vase - \$17
Large vase - \$23

Michelle bought an equal number of small vases and large vases. She spent \$120 altogether. How many vases did she buy in all?

Ans : \_\_\_\_\_ (3)

38. In October, Jeremy spent \$390 on food which was  $\frac{1}{3}$  of his salary. He gave his parents  $\frac{4}{9}$  of his salary. He spent half of the remaining money on transport and saved the other half. How much money did he save?

Ans : \_\_\_\_\_ (3)

39. Gopal bought 2 sacks of rice that weighs 13 kg each. He repacked the rice into 8 equal bags and sold them.
- (a) What is the mass of each bag of rice?
  - (b) If Gopal sold all the bags of rice at \$6.45 each, how much money would he receive in all?

Ans : (a) \_\_\_\_\_ (2)

Ans : (b) \_\_\_\_\_ (1)

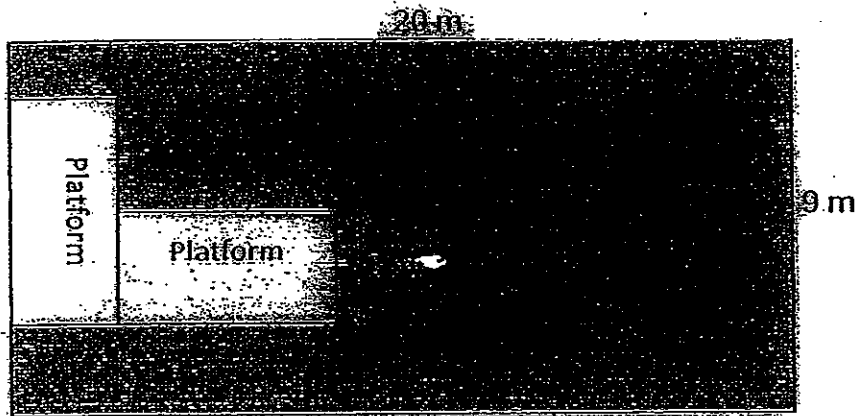
40. Gin wanted to buy a new electric piano which cost \$3760. She has been saving for half a year but she is still short of \$2350. If she saved an equal amount of money each month, what is the least number of months she needs to save to get the electric piano?

Ans : \_\_\_\_\_ (3)



41. The figure below shows the floor plan of the music room in Kidz Playhouse. There are two identical platforms in the room. The shaded part of the floor was covered with carpet. Find the cost of carpeting the room if every  $1\text{m}^2$  of carpet cost \$7.

Do  
wr  
thi



Ans : \_\_\_\_\_ (4)



42. Ashton bought some metal wire for his art project. He used  $\frac{5}{12}$  of it to make a decorative item and gave 184 cm of it to Melvin. Then he had  $\frac{1}{4}$  of the metal wire left. What was the length of the metal wire that Ashton bought?

D  
w  
th

Ans : \_\_\_\_\_ (4)



43. A supermarket is having a sale on \$2-chocolate bars. The price during the sale was  $\frac{3}{5}$  of the price before the sale.

a) How much is one chocolate bar selling at now?

b) How much would Louis save if he bought 9 pieces of chocolate bars?

Do  
write  
this

Ans : (a) \_\_\_\_\_ (2)

Ans : (b) \_\_\_\_\_ (2)



44. Aloysius is building a wall with some bricks. He arranges the bricks in a pattern as shown below.

Do not write this :



- a) If the wall is made up of 10 layers of bricks, how many bricks will he need altogether?
- b) If he uses 78 bricks, how many layers of bricks will there be altogether?

Ans : (a) \_\_\_\_\_ (3)

Ans : (b) \_\_\_\_\_ (1)

# ANSWER SHEET

**EXAM PAPER 2012**

**SCHOOL : CHIJ**

**SUBJECT : PRIMARY 4 MATHEMATICS**

**TERM : SA2**

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

17)  $4349 - 150 = 4199$   
 $4049 + 150 = 4199$

18)  $5/8 + 3/4 = 5/8 + 6/8$   
 $= 11/8 = 13/8$

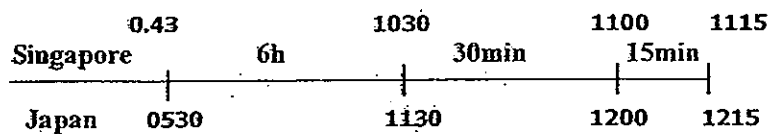
19)  $43549 \approx 43500$

20)  $5908 \div 7 = 844$

21)  $1.24 \times 7 = 8.68$

22)  $0.58 \times 7 = 4.06$

23)



Ans: 0430

24) i)  $82 + 37 + 31 = 150$

ii)  $150 = 48 + 37 = 235$

$85/235 \rightarrow$  exercise less than twice a week

$85/235 \div 5 = 17/47$

25)  $0.6 = 6/10$

26) Parade Square

27) i) Wed, Tues  $\rightarrow$  2 days

ii)  $8 + 16 = 24$

$18 + 22 = 40$

$20 + 24 = 44$

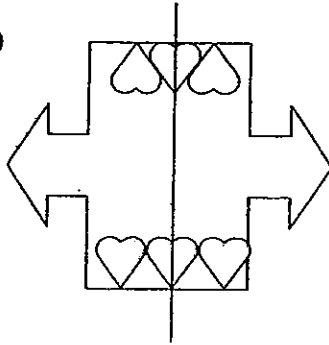
$44 + 40 + 24 + 10 = 84 + 34 = 118\text{km}$

28)  $\angle b$  and  $\angle d$

29)  $3/8$  and  $5/11$

30)  $129/100 - 23/1000 = 1.29 + 0.023$   
 $= 1.267 \approx 1.27$

31)



32)  $0.907$ ,  $0.709$ ,  $0.079$

33) Shape B and C

34) 4.50p.m.

35)  $48 \div 2 = 24 \rightarrow$  one length and breadth

$24 \div 3 = 8$

$8 \times 2 = 16$

$16 \times 8 = 128$

$128 \times 2 = 256$

$8 \times 8 = 64$

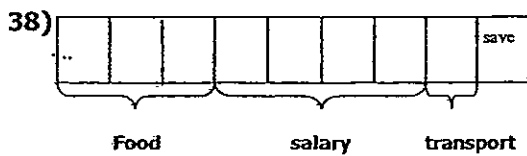
$256 + 64 = 320\text{cm}^2$

36)  $9 + 9 + 2 = 20$   
 $240 \div 20 = 12$   
 $9 + 2 = 11$   
 $12 \times 11 = 132$

37)

No	small Vase	Large Vase	Total	check
5	$5 \times \$17 = \$85$	$5 \times \$3 = \$15$	$\$85 + \$15 = \$100$	X
(3)	$3 \times \$17 = \$51$	$3 \times \$23 = \$69$	$\$51 + \$69 = \$120$	✓

$17 = 23 = 40$   
 $120 \div 40 = 3$   
 $3 \times 2 = 6$   
 She bought 6 vases in all.



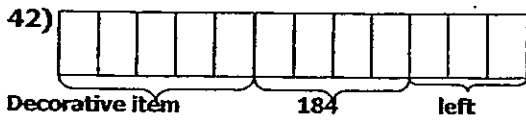
$\frac{1}{3} \times 3 = \frac{3}{9}$   
 $\$390 \rightarrow 3u$   
 $\$390 \div 3 = \$130 \rightarrow 1u$   
 Save  $\rightarrow 1u$   
 He save \$130

39)a)  $13\text{kg} \times 2 = 26\text{kg}$   
 $26\text{kg} \div 8 = 3.25\text{kg}$   
 The mass of each bag of rice is 3.25kg  
 b)  $\$6.45 \times 8 = \$51.60$   
 Hw received \$51.60

40)  $\$3760 - \$2350 = \$1410$   
 $\$1410 \div 6 = \$235$   
 $\$2350 \div \$235 = 10$   
 She needs 10 months to get the electric

$$\begin{aligned}
 41) & 3 + 3 = 6 \\
 & 6 \times 3 = 18 \\
 & 18 \times 2 = 36 \\
 & 20 \times 9 = 180 \\
 & 180 - 36 = 144 \\
 & 144 \times 7 = 1008
 \end{aligned}$$

The cost of carpeting the room is \$1008

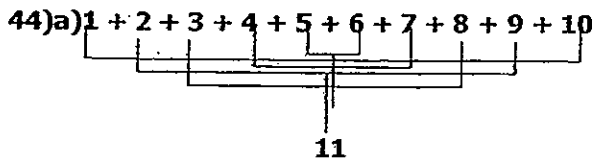


$$\begin{aligned}
 184 & \rightarrow 4u \\
 184 \div 4 & = 46 \text{ (1u)} \\
 46 \times 12 & = 552 \text{ (12u)}
 \end{aligned}$$

The length of the metal wire Ashton bought is 552cm

$$\begin{aligned}
 43)a) & \$2 \div 5 = \$0.40 \\
 & \$0.40 \times 3 = \$1.20 \\
 & \text{It is selling at } \$1.20
 \end{aligned}$$

$$\begin{aligned}
 b) & \$2 \times 9 = \$18 \\
 & 9 \times \$1.20 = \$10.80 \\
 & \$18 - \$10.80 = \$7.20 \\
 & \text{Louis would save } \$7.20
 \end{aligned}$$



$$\begin{aligned}
 11 \times 5 & = 55 \\
 & \text{He will need 55 bricks}
 \end{aligned}$$

$$\begin{array}{r}
 b) \text{Pattern } 11 \ 12 \\
 \text{Bricks } 66 \ 78 \\
 \quad \quad +11 \ +12
 \end{array}$$

There will be 12 layers