NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2010

PRIMARY 4

MATHEMATICS

DURATION: 1 HOUR 45 MINUTES

Section A	/ 30
Section B	/ 40
Section C	/ 30

Total:	/ 100

Name: _____ (   )

Class: Primary 4 (   )

Date: 14 May 2010

Parent's Signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS.

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). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(Total: 30 marks)

1. The distance between Sarah's house and Adel's house is 13 000 m when rounded off to the nearest thousand. What is the actual distance between the two houses?

    (1)   12 368 m   (2)   12 414 m

    (3)   13 199 m   (4)   13 502 m

2. Which one of the following is **not** a factor of 144?

    (1) 7   (2) 16

    (3) 18   (4) 24

3. What are the common factors of 18 and 45?

    (1) 3 and 5   (2) 3 and 9

    (3) 5 and 6   (4) 6 and 9

4. Mrs Chua had 6 bags of apples. Each bag contained an equal number of apples. How many apples did Mrs Chua have?

    (1)   32   (2)   46

    (3)   74   (4)   84

5. Study the number pattern below. What is the missing number in the box?

29 243, 28 743, 27 643, [   ] , 26 043

(1) 26 543

(2) 28 143

(3) 27 143

(4) 28 743

6. What is the product of 3908 and 7?

(1) 21 306

(2) 27 356

(3) 27 426

(4) 27 656

7. A total of 300 adults and children bought tickets to watch a charity concert. A child ticket costs $12 and an adult ticket costs 3 times as much. If there were twice as many adults as children watching the concert, how much money was collected from the ticket sales?

(1) $6000

(2) $8400

(3) $10 800

(4) $14 400

2

8. Which one of the following is the closest estimate for $3647 \div 6$?

    (1) $3600 \div 6$ (2) $3600 \div 10$

    (3) $3700 \div 6$ (4) $3700 \div 10$

9. How many tenths are there in $3\frac{3}{5}$?

    (1)   6   (2)   14

    (3)   18   (4)   36

10. Express $\frac{26}{12}$ in its simplest form.

    (1) $\frac{13}{12}$ (2) $1\frac{1}{6}$

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

11. A pizza was cut into 16 equal pieces. If both Mina and Manju ate 2 pieces each, what fraction of the pizza was left?

    (1) $\frac{1}{8}$ (2) $\frac{1}{4}$

    (3) $\frac{3}{4}$ (4) $\frac{7}{8}$

3

12. Mrs Cheng used $\frac{4}{5}$ of 2 kg of sugar to mix with some flour. The amount of flour she used is $\frac{1}{10}$ kg less than the amount of sugar. What was mass of the mixture?
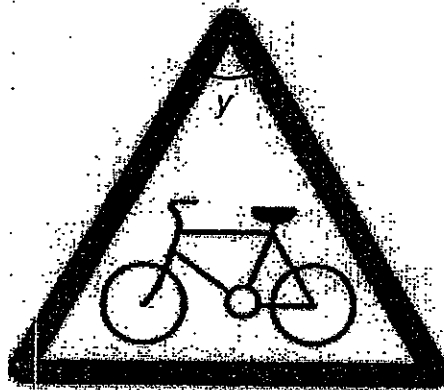
(1) $1\frac{7}{10}$ kg

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

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

(4) $3\frac{1}{10}$ kg

13. Which one of the following is the best estimate of $\angle y$ if all sides of the triangle shown below are equal?
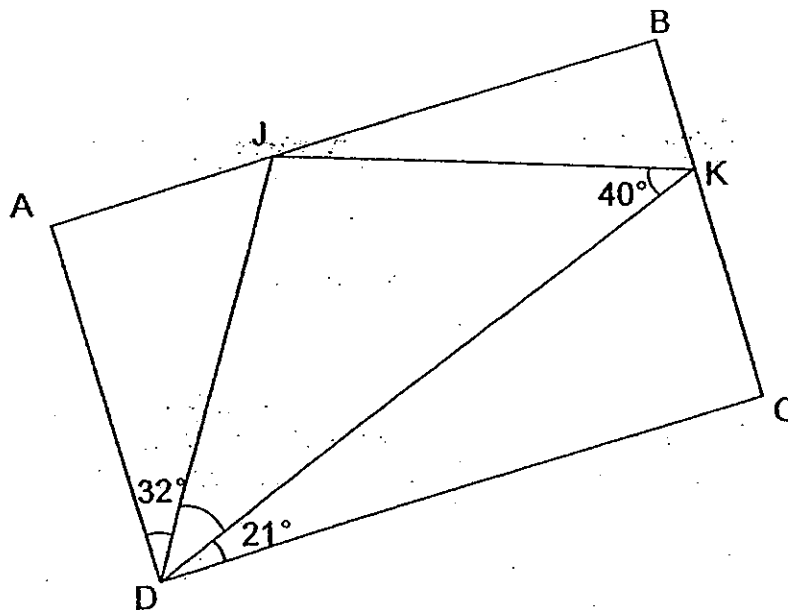

(1) 15°

(2) 60°

(3) 90°

(4) 100°

4

14. Aminah is facing south-west. She makes a 90° clockwise turn followed by a $\frac{1}{4}$ turn clockwise. Which direction will she be facing?

(1) North-west   (2) North

(3) East   (4) North-east

15. ABCD is a rectangle not drawn to scale. JD, JK and DK are straight lines. Find ∠JDK.

(1) 37°   (2) 40°

(3) 58°   (4) 69°

Questions 16 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces-provided. For questions which require units, give your answers in the units stated.

(Total: 40 marks)

16. What does the digit 5 in 58 702 stands for?

Answer :_____

17. Write 41 099 in words.

Answer :_____

18. Arrange the following numbers in descending order.

40 716,   47 601,   40 167,   47 160

Answer :_____

19. Divide 7005 by 3. Round off your answer to the nearest ten.

Answer :_____

20. Find the sum of all the factors of 49.

Answer :_____

21. What is the common multiple of 5 and 9 that is between the range of 50 and 100?

Answer :_____

22. Remi received a salary of $5256 at work. He saved $1400 and gave the rest equally to his wife and 3 children. How much did each of the children receive?
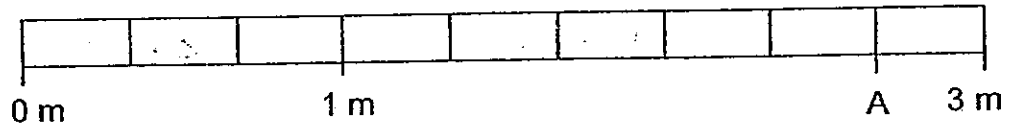
Answer : $_____

23. Round off 645 and 17 to the nearest ten and then find the product.

Answer :_____

24. The diagram below shows a 3 metre ruler. Express the value of A as an improper fraction.

0 m   1 m   A   3 m

Answer : _____ m

25. A packet of sugar weighs $1\frac{1}{9}$ kg while a bottle of oil weighs $2\frac{1}{3}$ kg. What is the mass of 2 bottles of oil and a packet of sugar?
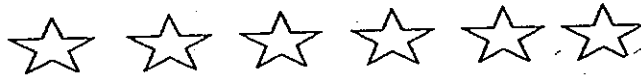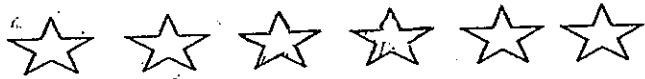
Answer : _____ kg

26. What is the missing value in the box below? Express your answer in its simplest form.

$$4\frac{2}{3} + \boxed{} = 9\frac{5}{6} - 2\frac{5}{12}$$

Answer : _____

8

27. There are 12 stars below. After Amelia had taken 2 stars away,

Ali took $\frac{1}{5}$ of the remaining stars. Shade the stars that Ali took.

☆ ☆ ☆ ☆ ☆ ☆

☆ ☆ ☆ ☆ ☆ ☆

28. Azman has 56 doughnuts. Joyce has $1\frac{1}{2}$ times as many doughnuts as Azman. How many doughnuts do they have in all?
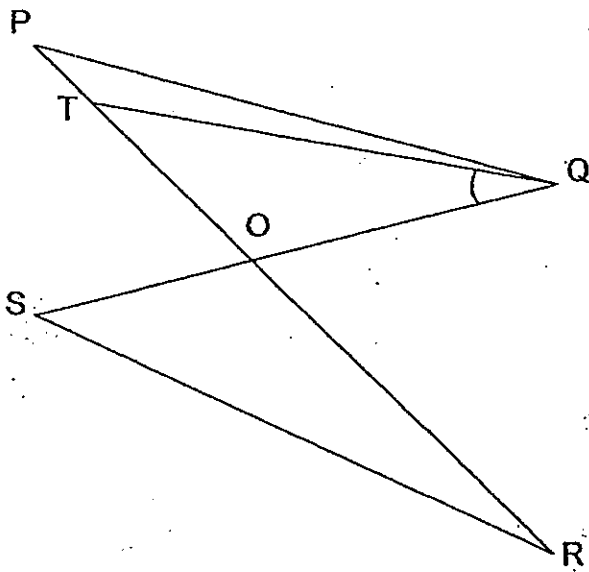
Answer : _____

29. There are 28 storybooks in the class. Daniel has read $\frac{2}{7}$ of the books. How many more books would he need to read to finish reading all the storybooks in the class?

Answer : _____

30. The figure below consists of 2 triangles PQO and SRO. TQ is a straight line.
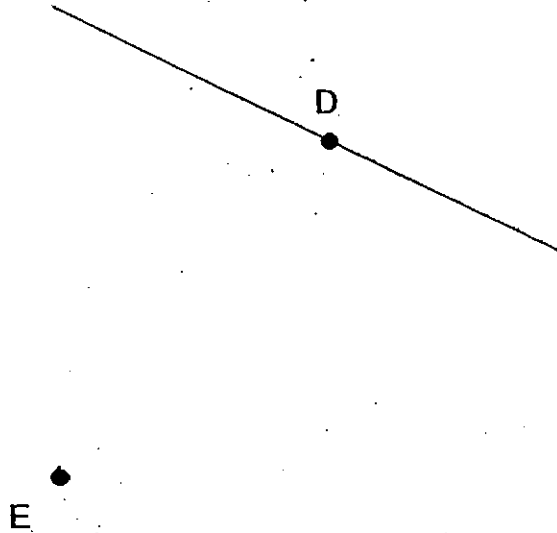
a) Name the marked angle in the figure below.
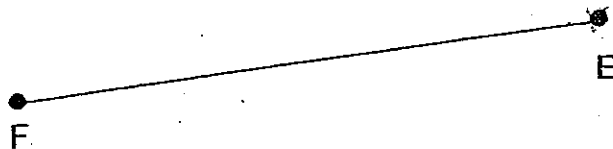
b) Measure the marked angle.
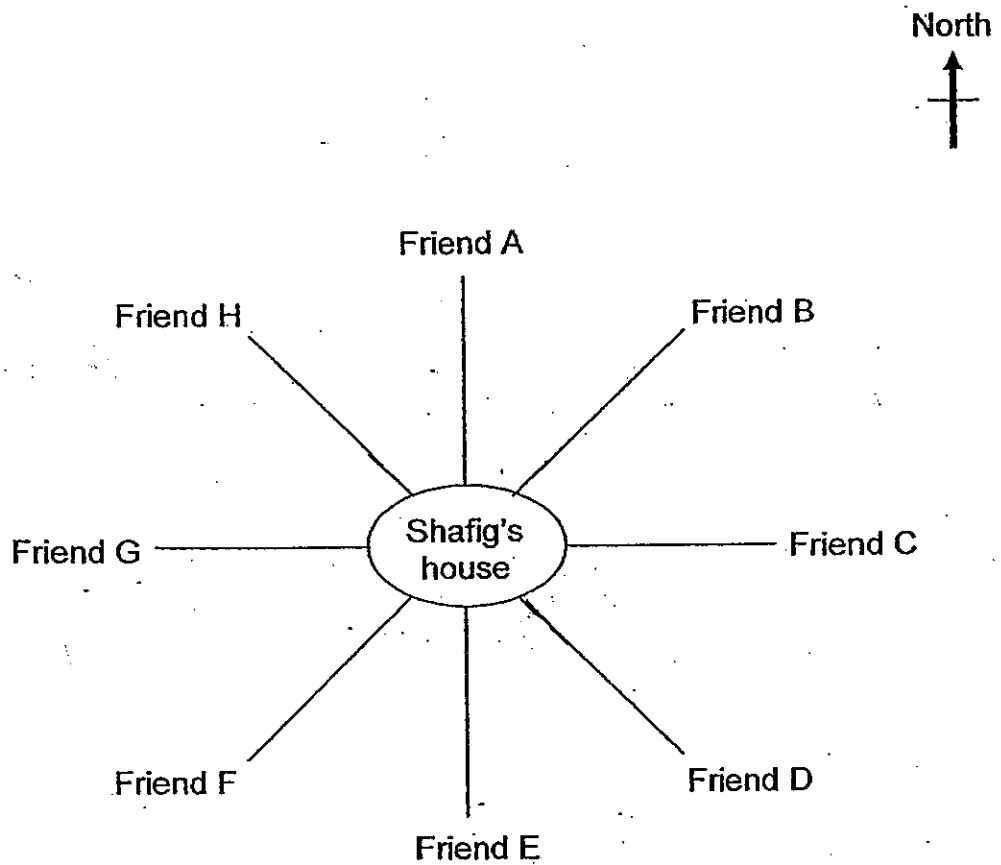

Answer : a) ∠_____

b) _____°

31. Draw a straight line through the point D. Then, construct another line perpendicular to the line that you have drawn and it has to cut through point E.

D

E

32. Construct an angle such that ∠DEF is equal to 110°. Mark and label the angle.

E

F

33. During Hari Raya, Shafiq went to visit his friends. He travelled in the north-east direction from his house and made a 270° clockwise turn to visit a friend. After that, he made two anti-clockwise $\frac{1}{4}$ turns to visit another friend before he went home. Whose house did Shafiq visit before he went home?

North

Friend A

Friend H   Friend B

Friend G   Shafiq's house   Friend C

Friend F   Friend D

Friend E

Answer :

12

34. The figure below is made up of 2 rectangles A and C and a

    square B. Find the perimeter of the figure.
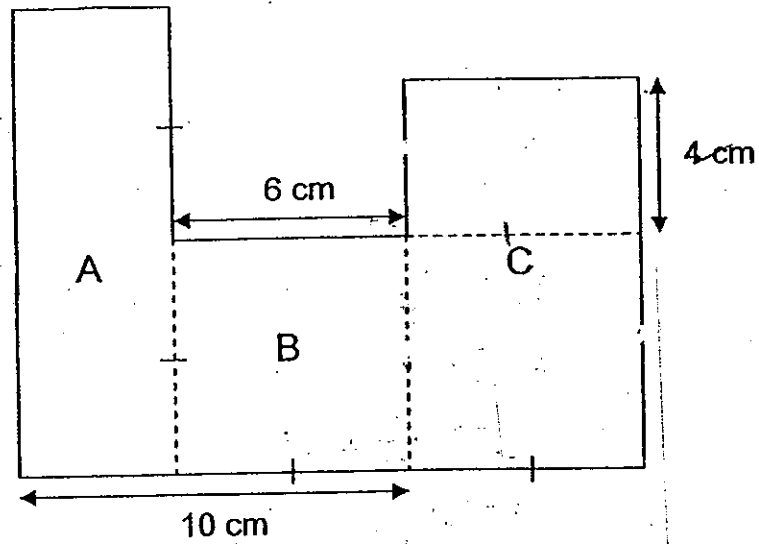
Answer :_____cm

35. There were 6 teams which participated in a football carnival. If each

    team played against all the other teams only once, how many games

   were played in total?

Answer :_____

Questions 36 to 37 carry 3 marks each and questions 38 to 43 carry 4 marks each. Do these word problems carefully. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

(Total: 30 marks)

36. There were $3\frac{1}{8}$ ℓ of milk in a jug. Mr Lee drank $\frac{1}{4}$ ℓ of the milk while Mrs Lee drank $\frac{1}{2}$ ℓ of the milk. How many litres of milk were left in the jug?

Answer : _____ (3m)

14

37. In the figure below, draw two lines PQ and RS such that PQ $\perp$ AB, RS // AB and RS = 8 cm. (3m)

A

R

P

S

B
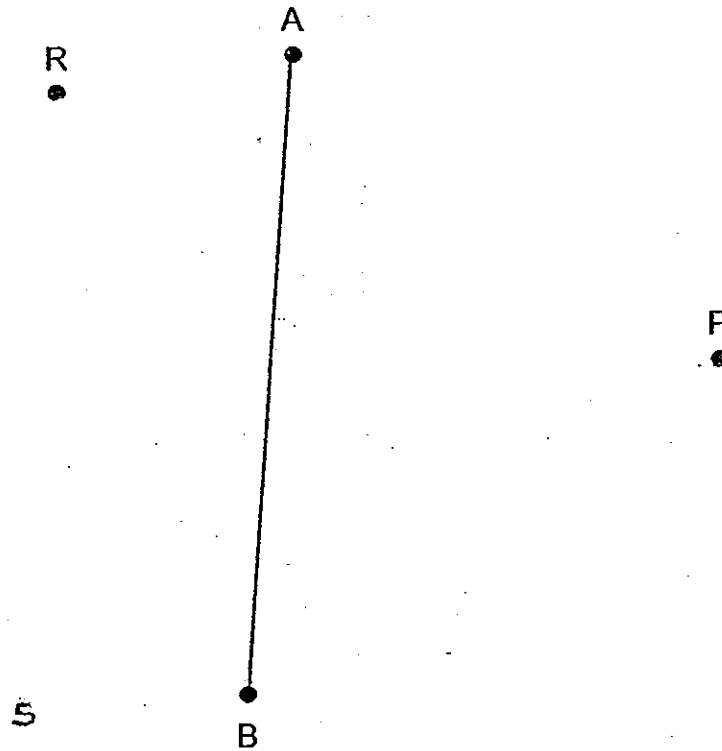
38. In City A, there are a total of 56 cinemas. 22 of the cinemas are newly-built while the rest are not. An old cinema has 298 fewer seats than a new cinema. A new cinema has 872 seats. What is the total number of seats in these 56 cinemas?

Answer : _____ (4 m)

39. Janice was shopping for furniture for her new house. After spending $1318 on a table, she used the remaining amount of money to buy three armchairs and a sofa set. If the sofa set cost four times as much as an armchair and twice as much as the table, how much did Janice spend altogether?

Answer : _____(4 m)

40. Malek and Wahab had 525 marbles. $\frac{1}{6}$ of Malek's marbles and $\frac{4}{11}$ of Wahab's marbles were blue in colour. The rest were red in colour. If they had equal number of blue marbles, how many red marbles did Wahab have?

Answer : _____(4 m)

41. Justin and Darren had $1200 at first. Justin spent $400 while Darren

spent $120 less than him. The amount Darren had left was $\frac{3}{5}$ of the

amount Justin had left. How much did Justin have at first?

Answer :_____(4 m)

42.   Mr. Chen celebrates his birthday today. 12 years ago, he was thrice as old as his daughter, and his wife was 24 years older than her daughter. If his wife is 51 years old this year, how old was Mr. Chen last year?
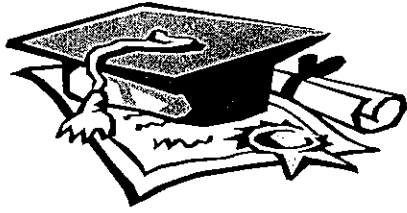
Answer :_____(4 m)

43. Joyce, Perry, Tanya and Seetha shared a box of stickers. After distributing all the stickers, Joyce got thrice as many stickers as Tanya. If Perry gave 38 stickers to Seetha, they would both have the same number of stickers. Perry would then have half as many stickers as Joyce. If there were 280 stickers in the box in the end, how many stickers did Joyce and Perry have respectively at first?

Answer : Joyce :_____(2 m)

Perry :_____(2 m)

END OF PAPER
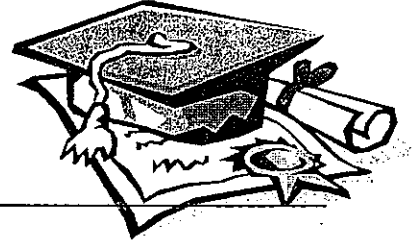
Setters: Ms Alice Chong
Mr Numayama Jyoji

ANSWER SHEET

EXAM PAPER 2010

SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : PRIMARY 4 MATHEMATICS

TERM   : SA1

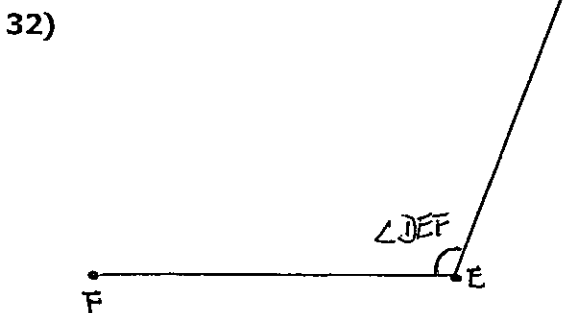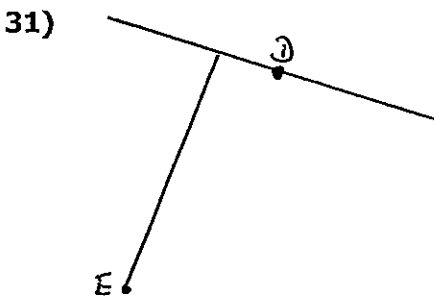| Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
3	1	2	4	3	2	2	1	4	3	3	2	2	1	1

16) 50000   17) forty-one thousand and ninety-nine   18) 47601, 47160, 40716, 40167

19) 2340   20) 57   21) 90   22) $964   23) 13000   24) 8/3 m   25) 5^7/9
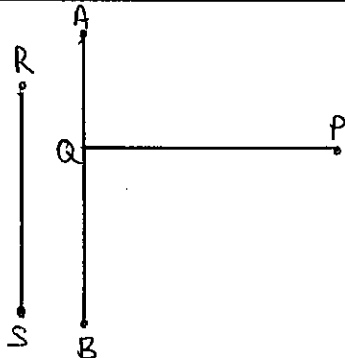
26) 2 ¾

27)

28) 140   29) 20   30a) < TQO   30b) 24°

31)

32)

33) Friend D's house   34) 64 cm   35) 15

36)	37)
$3 \frac{1}{8} l - 2/8 l = 2 \frac{7}{8} l$ $2 \frac{7}{8} l - 4/8 l = 2 \frac{3}{8} l$ $2 \frac{3}{8} l$ of milk was left in the jug.	(diagram with points A, R, Q, P, S, B)
38) $56 - 22 = 34$ $872 - 298 = 574$ $34 \times 574 = 19516$ $22 \times 872 = 19184$ $19184 + 19516 = 38700$ There was a total of 38700 seats in these 56 cinemas.	39) 1 table -> \$1318 2 tables -> \$1318 + \$1318 = \$2636 Sofa set -> \$2636 \$2636 / 4 -> 1 armchair = \$659 \$659 x 3 = \$1977 \$1977 + \$ 2636 = \$4613 \$4613 + \$1318 = \$5931 Janice spend \$5931 altogether.
40) 24u +11u = 35u 35u -> 525 1u -> 525 / 35 =15 7u -> 15 x 7 = 105 Wahab have 105 marbles.	41) \$400 - \$120 = \$280 \$280 + \$400 = \$680 \$1200 - \$680 = \$520 8u-> \$520 1u -> \$520 / 8 = \$65 Justin -> \$65 x 5 = \$325 \$325 + \$400 = \$725 Justin had \$725 at first.

42)	43)
51 − 24 = 27 (Daughter) 27 − 12 = 15 15 x 3 = 45 45 + 12 = 57 57-1 = 56 **Mr Chen was 56 years old last year.**	14u -> 280 1u -> 280 / 14= 20 Joyce : 6 units -> 20x 6 = 120 Perry : 3 units -> 3 x20 =60 60 + 38= 98 **Joyce had 120 stickers at first while Perry** **had 98 stickers at first.**