Tao Nan School
Primary 5 Mathematics Mid-Year Examination – 2008

Name: _____ (  )  Date : 9 May 2008

Class : Primary 5 (  )

Parent's Signature : _____  Marks : _____ / 100

Time : 8.00 a.m. - 8.50 a.m.

# MATHEMATICS

## PAPER 1

## (BOOKLET A)

**INSTRUCTIONS TO CANDIDATE**

1. Write your name, class and Index No.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 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. (20 marks)

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1. In the numeral 2 745 136, the digit _____ is in the ten thousands place.

   (1) 5

   (2) 2

   (3) 7

   (4) 4

2. The population of Singapore is 4 502 681.

   Express this number to the nearest thousand.

   (1) 4 500 000

   (2) 4 502 000

   (3) 4 502 600

   (4) 4 503 000

3. How many ten thousands are there in 900 000?

   (1) 9

   (2) 90

   (3) 900

   (4) 9000

4. What is the value of $48 - 12 \div 2 + 20 \times 2$?

   (1) 58

   (2) 76

   (3) 82

   (4) 124

5. Find the product of 4 906 x 14.

(1) 24 530

(2) 24 570

(3) 68 684

(4) 68 724

6. $13\overline{)\boxed{?}}$ 28 R 9

What is the missing number?

(1) 145

(2) 265

(3) 364

(4) 373

7. $\frac{4}{6}$ is the same as _____.

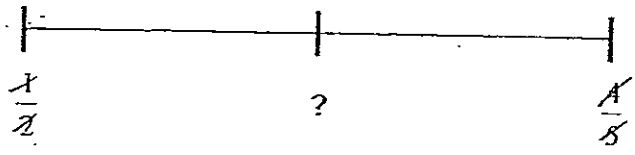
(1) $\frac{10}{12}$

(2) $\frac{10}{15}$

(3) $\frac{6}{30}$

(4) $\frac{6}{36}$

8.




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

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

(3) $\frac{12}{20}$

(4) $\frac{13}{20}$

9. 5 : 9 = ☐ : 54. The missing number in the box is _____.

(1) 6

(2) 11

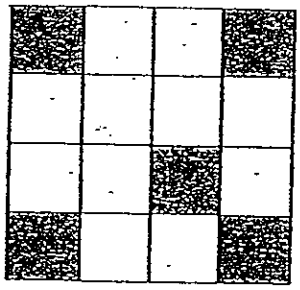
(3) 30

(4) 48

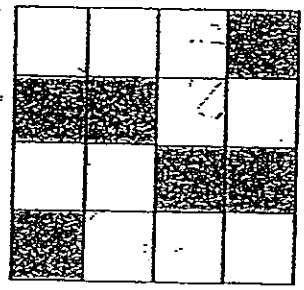
10. Each of the figures below is made up of 16 similar squares.

Which of the following does **not** have a line of symmetry?

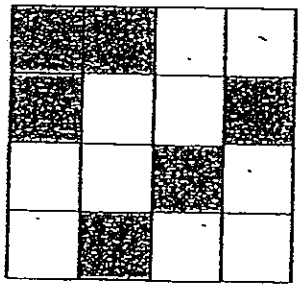
(1)



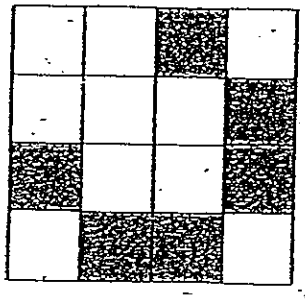
(2)



(3)



(4)



11. H is a 4-digit number divisible by 3 and 9. When rounded to the nearest ten or hundred, H is 3 000. What is H?

(1) 2 994

(2) 2 997

(3)

(4) 3 006

12. Which of the following **does not** have the same value as $2\frac{2}{5} + 2\frac{2}{5}$?

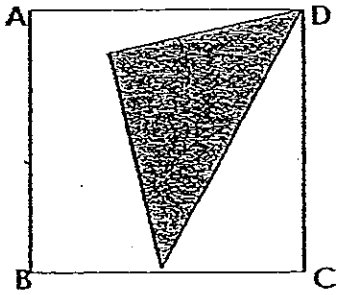
(1) $\frac{24}{5}$

(2) $4\frac{4}{5}$

(3) $2 \times \frac{10}{5}$

(4) $2 \times 2\frac{2}{5}$

13. In the figure below, ABCD is a square of sides 6 cm. The area of the shaded triangle is $\frac{2}{5}$ the area of the square. Find the area of the shaded triangle.




(1) $9\frac{3}{5}$

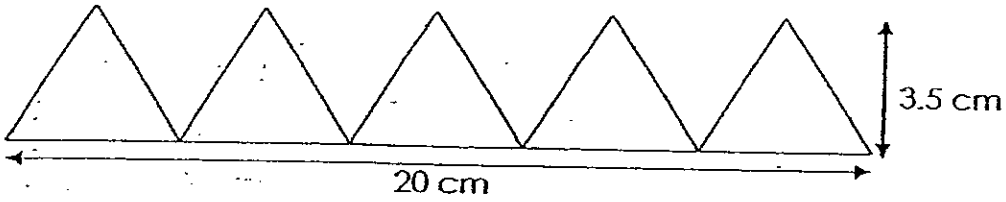
(2) $14\frac{2}{5}$

(3) $21\frac{3}{5}$

(4) $35\frac{3}{5}$

14. 5 identical triangles were placed on a straight line as shown below.

The area of one triangle is _____ $cm^2$.



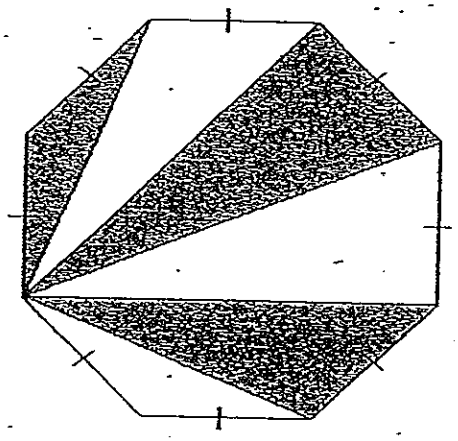

(1) 7

(2) 14

(3) 35

(4) 70

15. What fraction of the following figure (an octagon) is shaded?



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

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

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

(4) $\frac{3}{5}$

Name: _____ (  )

Class : Primary 5 (  )

Parent's Signature : _____

20

# MATHEMATICS

## PAPER 1

## (BOOKLET B)

**INSTRUCTIONS TO CANDIDATE**

1. Write your name, class and Index No.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **not** allowed to use a calculator.

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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16. In 631 589, the digit 6 is in the _____ place.

Ans: _____

17. In 1 492 630, the value of the digit 4 is _____.

Ans: _____

18. 1 000 782 is _____ more than 900 782.

Ans: _____

19. Find the value of $120 \div 6 \times 10 - 10$.

Ans: _____

20. $204 \times 20 + 204 \times 80 = 204 \times$ _____

Ans: _____

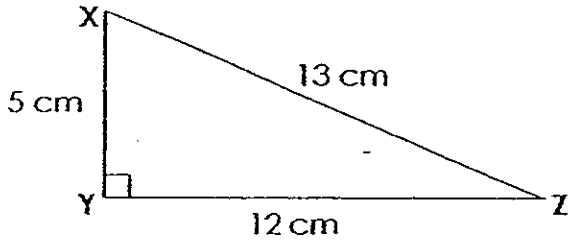
21. There are _____ eighths in 4 wholes.

Ans: _____

22. Evaluate $\frac{9}{24} \div 6$.

Ans: _____

23. Find the area of Triangle XYZ.



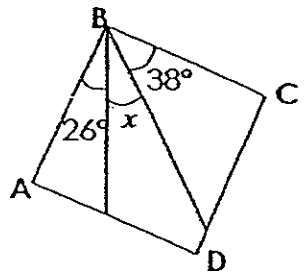

Ans: _____ $cm^2$

24. Write the ratio in its simplest form.

10 : 65 : 20

Ans: _____ : _____ : _____

25. ABCD is a square. Find $\angle x$.




Ans: _____ °

Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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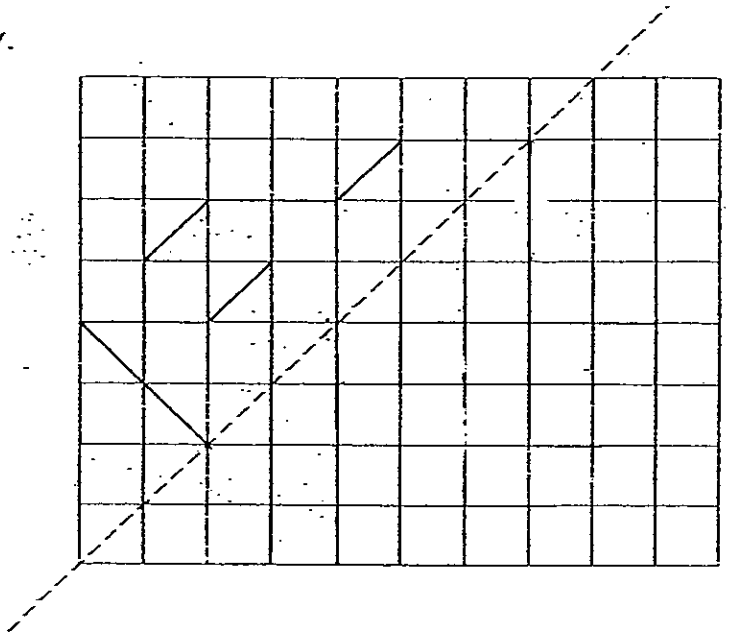
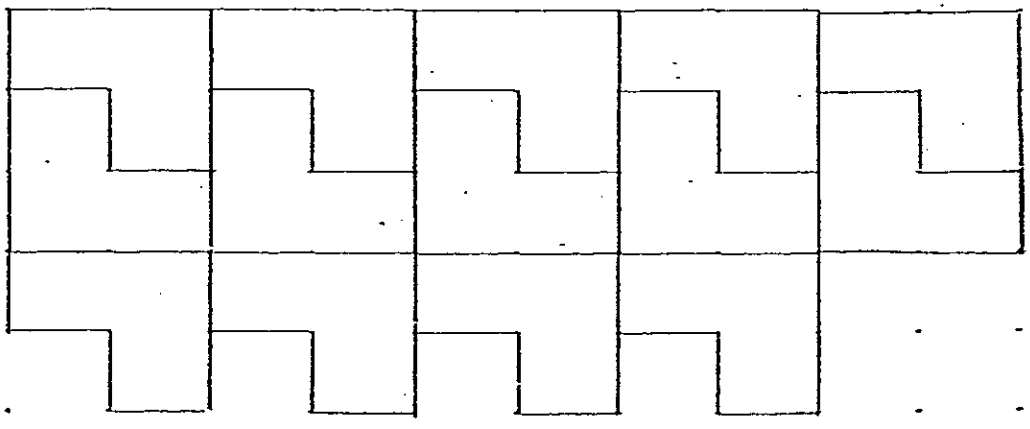
26. Complete the symmetric shape with the dotted line as a line of symmetry.



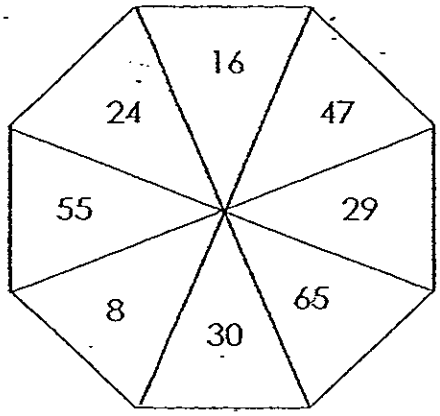
27. Complete the following tessellations in the space provided by adding **eight** more unit shapes to it.



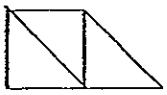
28. Joan and Diane have $2 500 altogether. Joan has 4 times the amount of money Diane has. How much money does Joan have?

Ans: $ _____

29. The diagram shows a dartboard.
What is the least number of throws needed in order to get a score of exactly 150?




Ans: _____

30. If  is $\frac{1}{4}$, then  is _____.

Ans: _____

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**END-OF-PAPER**

**Tao Nan School**
**Primary 5 Mathematics Mid-Year Examination – 2008**

Name: _____ (  ) Date : 9 May 2008

Class : Primary 5 (  ) Time : 10.00 a.m. - 11.40 a.m.

Parent's Signature : _____ Marks : _____ / 60

# MATHEMATICS

## PAPER 2

**INSTRUCTIONS TO CANDIDATE**

1. Write your name, class and Index No.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

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1. Mr Zenith bought 2 400 sheets of coloured paper. He gave 12 sheets to each of his pupils. How many pupils does Mr Zenith have?

Ans: _____

2. $\frac{1}{9}$ of a pizza costs \$2.05. What is the total cost of 14 such pizzas?

Ans: \$_____

3. $\frac{4}{7}$ of the enrolment of Greenery School are boys. $\frac{1}{8}$ of the boys are Indians. What fraction of the school are Indian boys?

Ans: _____

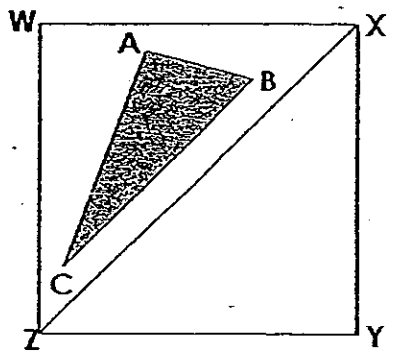
4. Cindy needs 78 cm of ribbon to make a flower. How many flowers can she make with 19 m 50 cm of ribbon if she uses the same length for each flower?

Ans: _____

5. WXYZ is a square with sides 12 cm.

The area of Triangle ABC is $\frac{1}{3}$ of the area of WXZ.

Find the area of Triangle ABC.




Ans: _____ $cm^2$

For questions **6** to **18**, show your working clearly in the space provided for each question 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. (50 marks)

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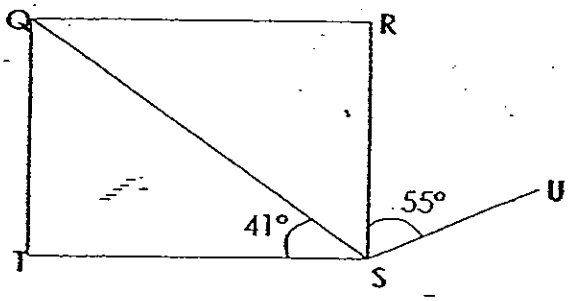
6. QRST is a rectangle. Find $\angle$ QSU.




Ans: _____[3]

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7. A container weighed 1 kg 652 g when it was filled with Liquid A. The same container weighed 3 kg 38 g when it was filled with Liquid B. Liquid B was 4 times as heavy as Liquid A. What is the weight of the container when it is empty? 3 kg 38 g

Ans: _____[3]

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8. Mrs Newton is 63 years old. Her granddaughter is 18 years old. How many years ago was Mrs Newton 6 times as old as her granddaughter?

Ans: _____ [3]

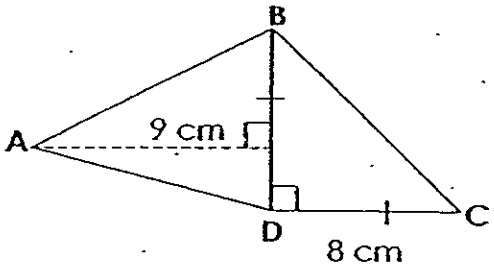
9. The number of shells in Box A is 8 times the number of shells in Box B. If 154 shells are transferred from Box A to Box B, the number of shells in Box A and Box B will then be the same. What is the total number of shells in the two boxes?

Ans: _____ [3]

10. 24 jugs of water can fill $\frac{5}{9}$ of a tank. What is the capacity of the tank if each jug can hold $\frac{2}{3}$ litres of water?

Ans: _____ [3]

11. ABCD is made up of 2 triangles. BD = CD. Find the area of ABCD.




Ans: _____ [3]

12. A laptop costs $1 336. A plasma television costs twice as much as the laptop. A refrigerator costs $1 607 more than the plasma television. If Mr Lee wants to buy a laptop and a refrigerator, how much does he have to pay in all?

Ans: _____ [4]

13. $\frac{5}{12}$ of the chairs in a stadium are green. $\frac{9}{14}$ of the remaining chairs are blue and the rest are red.

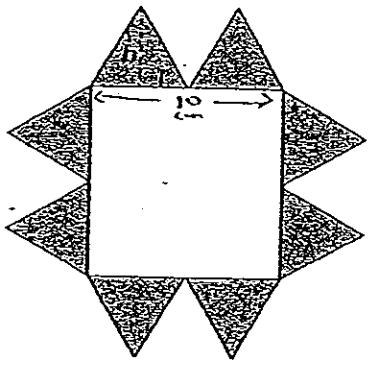
(a) If there are 125 red chairs, how many blue chairs are there?

(b) How many chairs are there in the stadium altogether?

Ans: (a) _____ [2]

(b) _____ [2]

14. The figure is made up of 8 identical isosceles triangles and a 10-cm square. The height ($h$) of the triangle is equal to its base. Find the shaded area.




Ans: _____ [4]

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15. Rani used 1 litre of rose syrup and 8 times as much water to make cordial for her birthday party.

(a) How many litres of cordial did she make?

(b) Rani poured 50 glasses of the cordial. If each glass can hold 60 ml of cordial, how much cordial had she left?

Ans: (a) _____ [2]

(b) _____ [3]

---

16. Salleh was given a sum of money to buy some stationery. He spent $\frac{2}{3}$ of the money on 2 notebooks and 4 pens. Each pen cost twice as much as a notebook.

(a) How many notebooks could Salleh buy with the remaining money?

(b) If each pen cost 90 cents, how much money was Salleh given?

Ans: (a) _____ [2]

(b) _____ [3]

17. Julie started doing her homework at 2.00 p.m. She spent $\frac{1}{4}$ of the time doing her composition, $\frac{3}{5}$ of the remaining time doing her Mathematics and spent the rest of the time on her art work. If she spent 1 h 6 min on her art work, at what time did she finish all her homework?

Ans: _____ [5]

18. A bookshop owner ordered 660 copies of magazines and comics. The comics are bundled in stacks of 6 while the magazines are in stacks of 10. The number of stacks of comics is twice that of magazines.

(a) How many stacks of magazines are there?

(b) How many comics did the bookshop owner order?

Ans: (a) _____ [3]

(b) _____ [2]

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**END OF PAPER**

# ANSWER SHEET

EXAM PAPER 2008

SCHOOL : TAO NAN PRIMARY SCHOOL
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA 1

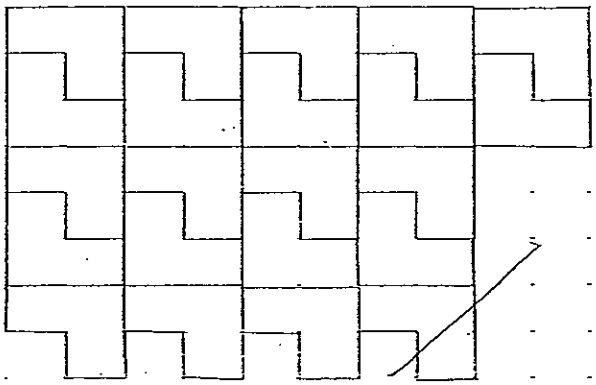
| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 4 | 2 | 3 | 3 | 4 | 2 | 4 | 3 | 2 | 2 | 3 | 2 | 1 | 1 |

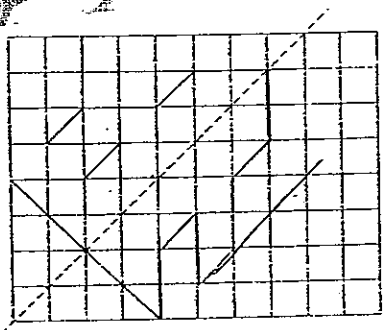
**16)hundred thousands** **17)400 000** **18)100 000**

**19)190** **20)100** **21)32** **22)1/16**

**23)30cm$^2$** **24)2:13:4** **25)26** **26)**

**27)**





**28)$2000** **29)3 throws** **30)5/6**

## Paper 2

1)2400÷12=200
Mr Zenith has 200 pupils.

2)9x2.05=18.45
18.45x14=258.30
The total cost is $258.30

3)7x2=14
1/14 of the school are Indian boys.

4)19m 50cm=1950cm
1950÷78=25
She can make 25 flowers.

5) ½ x12x12=72
1/3 x72=24
The area of Triangle ABC is 24cm$_2$

6)90-41=49
49+55=104
∠QSU is 104°

7)3038-1652=1386
1386÷3=462
1652-462=1190
The weight of the container is 1190g.

8)63-18=45

| Mrs Newton | Granddaughter | No. of times |
|---|---|---|
| 60 | 15 | 4 x |
| 54 | 9 | 6 √ |

63-54=9
Mrs Newton was 6 times as old as her daughter 9 years old.

9)154÷7=22
18x22=396
The total number of shells is 396.

10)24x2/3=16
16÷5=3.2
9x3.2=28.8
The capacity of the tank is 28.8L

11) ½ x8x8=32
BCD→32$cm_2$
½ x8x9=36
ABD→36$cm_2$
36+32=68
The area of ABCD is 68$cm_2$

12)1336x2=2672
2672+1607=4279
1336+4279=5615
He has to pay $5615 in all.

13)a)125÷5=25
9x25=225
There are 225 blue chairs.
b)24x25=600
There are 600 chairs in the stadium altogether.

14)10÷2=5
½ x5x5=12.5
8x12.5=100
The shaded area is 100$cm_2$

15)a)8x1=8
8+1=9
She made 9L of cordial.
b)50x60=3000
9L=9000ml
9000-3000=6000
She had 6000ml left.

16)a)1p→2N
4p→8N
2N+4p=10N
2/3→10N
1/3=10/2=5 Notebooks.
b)1p=90 cent
1N=90÷2=45 cent
10N+5N=15N
15N=15x45=$6.75

17)6u→1h 6min=66min
1u→66÷6=11min
20u→20x11=220min
=3h 40min
2h+3h 40min=5h 40min
Ans: 5.40pm

18)a)6+6+10=22
660÷22=30 stacks.
b)30x10=300
660-300=360 comics.