

Tao Nan School
Primary 5 Mathematics Mid-Year Examination 2011

Name: _____ () Date : 13 May 2011

Class : Primary 5 () Time : 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____ Marks : _____ / 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS
PAPER 1
(BOOKLET A)

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
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)

1. In 1 640 378, the value of the digit 4 is _____.

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

2. In 738.952, the digit _____ is in the tenths place.

- (1) 5
- (2) 2
- (3) 3
- (4) 9

3. Round off 9 715 280 to the nearest ten thousand.

- (1) 9 700 000
- (2) 9 710 000
- (3) 9 715 000
- (4) 9 720 000

4. Express $\frac{2}{5}$ as a decimal.

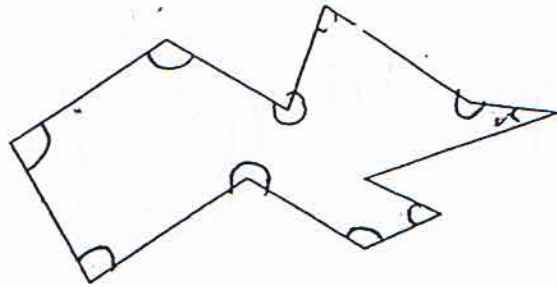
- (1) 0.25
- (2) 0.4
- (3) 2.5
- (4) 5.2

5. The ratio of 5 minutes to 2 hours is _____.

- (1) 1 : 12
- (2) 1 : 24
- (3) 5 : 12
- (4) 5 : 8

6. How many angles inside the figure below are less than 90° ?

- (1) 7
- (2) 10
- (3) 11
- (4) 4



7. The value of $5 + 3 \times 80 - 50 \div 10$ is _____.

- (1) 24
- (2) 59
- (3) 240
- (4) 635

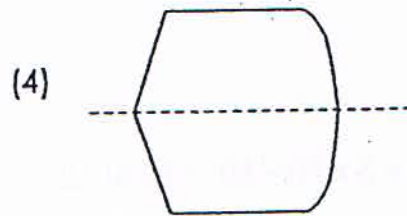
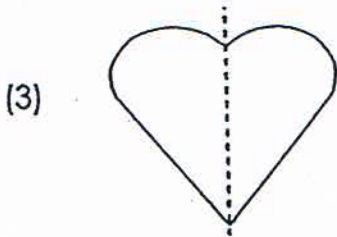
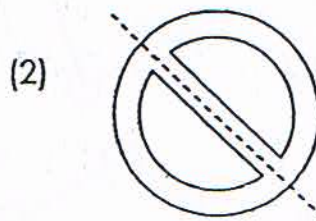
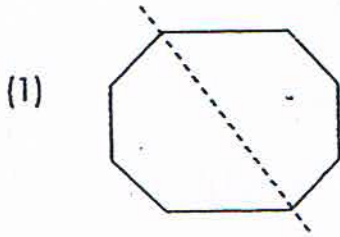
8. $360 \div \underline{\hspace{2cm}} = 40 \div 10$

- (1) 9
- (2) 10
- (3) 90
- (4) 4

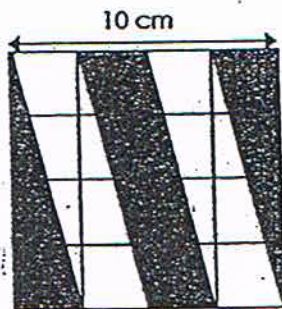
9. How many sixths are there in $3\frac{1}{2}$?

- (1) 7
- (2) 18
- (3) 3
- (4) 21

10. Which of the following dotted lines is not a line of symmetry of the figure?



11. Find the shaded area of the big square.



- (1) 100 cm^2
- (2) 80 cm^2
- (3) 60 cm^2
- (4) 50 cm^2

12. Arrange these fractions in ascending order.

$$\frac{7}{8}, \frac{3}{4}, \frac{24}{25}, \frac{14}{15}$$

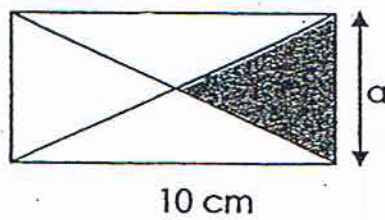
(1) $\frac{3}{4}, \frac{7}{8}, \frac{14}{15}, \frac{24}{25}$

(2) $\frac{24}{25}, \frac{14}{15}, \frac{7}{8}, \frac{3}{4}$

(3) $\frac{14}{15}, \frac{7}{8}, \frac{3}{4}, \frac{24}{25}$

(4) $\frac{3}{4}, \frac{14}{15}, \frac{7}{8}, \frac{24}{25}$

13. The shaded area is 15 cm^2 . Find the value of a .



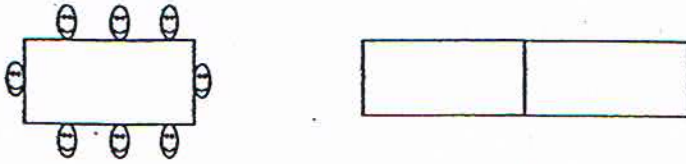
(1) 6 cm

(2) 5 cm

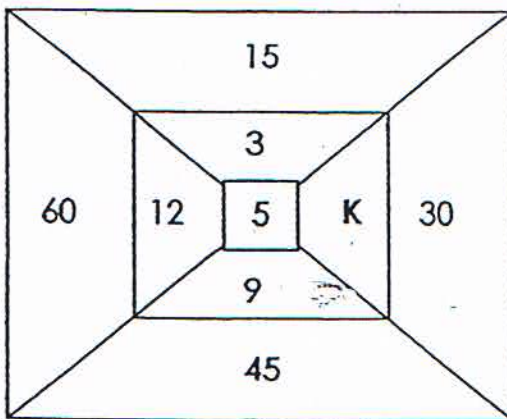
(3) 3 cm

(4) 4 cm

14. A rectangular table can seat 8 people around it. What is the least number of rectangular tables needed to seat 50 people if the tables are joined together in a single row?



- (1) 5
 (2) 6
 (3) 7
 (4) 8
15. Find the value of K.



- (1) 6
 (2) 7
 (3) 22
 (4) 25

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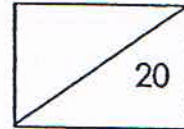
Name: _____ () Date : 13 May 2011

Class : Primary 5 ()

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

Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.



MATHEMATICS
PAPER 1
(BOOKLET B)

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
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)

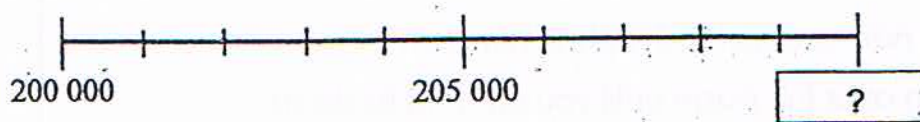
16. Write 6 503 014 in words.

Ans: _____

17. Form the **biggest** 5-digit number with the digits 6, 0, 7, 4 and 3 that can be divided by 4.

Ans: _____

18. The missing number in the box is _____.



Ans: _____

19. There were 440 pupils. Each of them folded 56 paper planes. How many paper planes were folded altogether?

Ans: _____

20. The number in the box is _____.

$$\begin{array}{r} 15 \text{ R } 6 \\ 20 \overline{) \boxed{}} \end{array}$$

Ans: _____

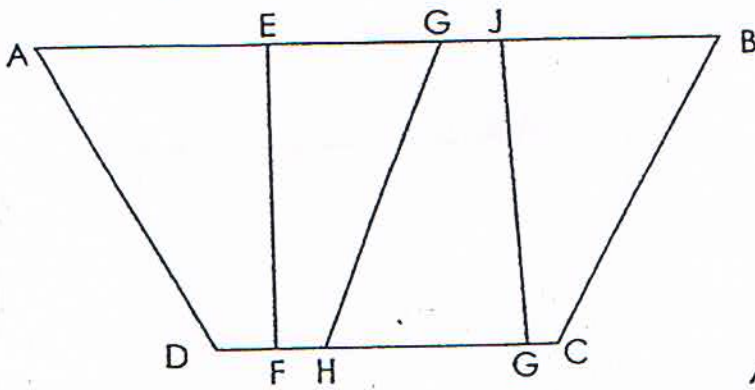
21. $\frac{3}{4}$ of a pizza is shared among 12 boys. What fraction of the pizza does each boy get?

Ans: _____

22. There are 24 coloured cubes in a box. There are 12 yellow cubes, 6 red cubes and the remaining are green cubes. What fraction of the coloured cubes is green?

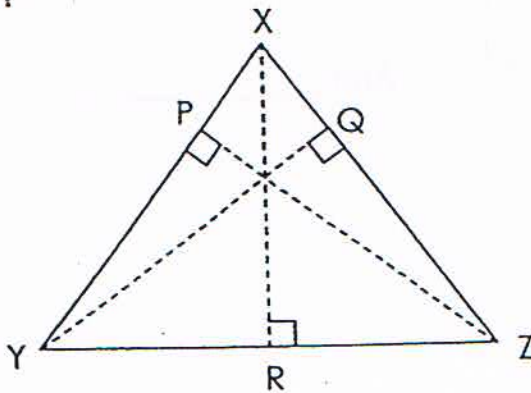
Ans: _____

23. In the diagram below, which line is perpendicular to AB?



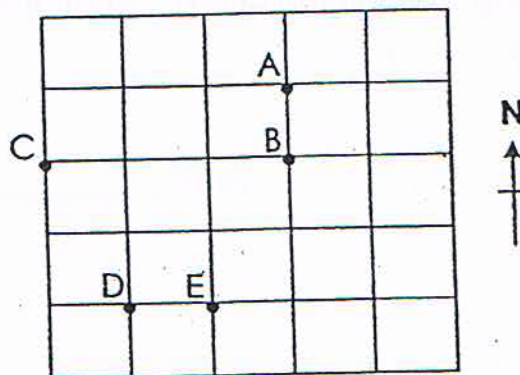
Ans: _____

24. If XY is the base of the triangle XYZ, which line is the height of the triangle?



Ans: _____

25. Refer to the grid below and fill in the blanks with A, B, C or D.

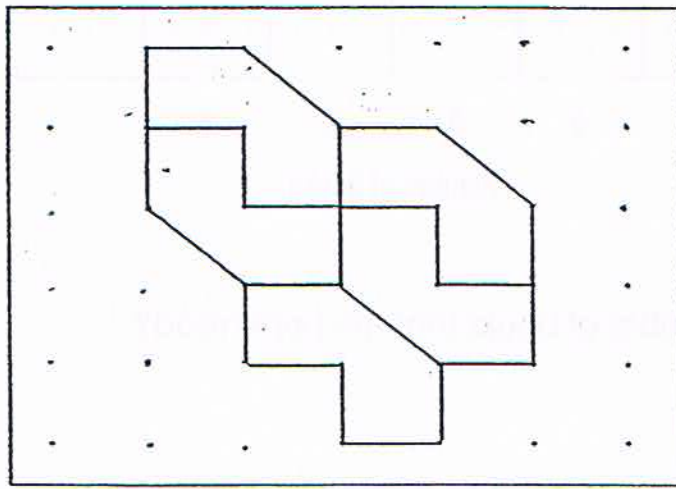


Point _____ is north-west of Point E.

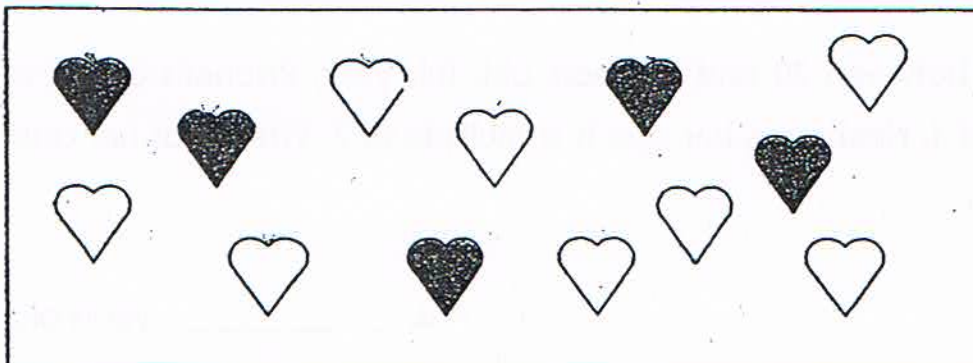
Ans: _____

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)

26. Complete the following tessellation in the space provided by adding 3 more unit shapes.

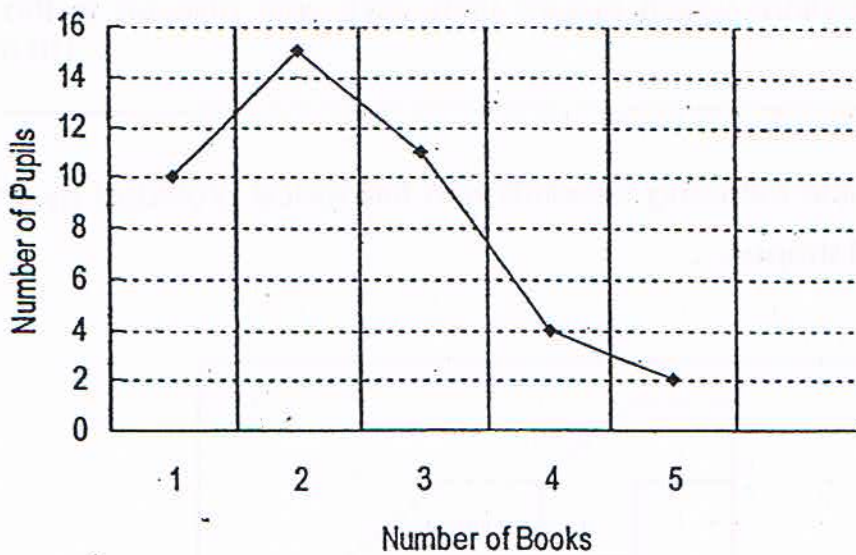


27. How many unshaded hearts must be added so that $\frac{1}{3}$ of the hearts in the box below is shaded?



Ans: _____

28. The line graph shows the number of books pupils in a class read in a week.



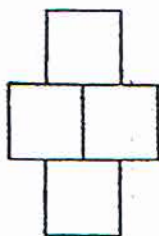
What is the total number of books that the pupils read?

Ans: _____

29. Rachel is between 30 and 50 years old. This year, Rachel's age is a multiple of 4. Next year, her age is a multiple of 7. What was her age last year?

Ans: _____ years old

30. The figure is made up of 4 identical squares.
The area of the figure is 36 cm^2 . Find the perimeter of the figure.



Ans: _____ cm

END OF PAPER

Tao Nan School
Primary 5 Mathematics Mid-Year Examination 2011

Name: _____ () Date : 13 May 2011

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 register number.
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)

1. 66 children are at the playground. The number of girls is $\frac{5}{6}$ that of the number of boys. How many girls are there?

Ans: _____

2. A wheel is spun and it turns 5 rounds before it stops. Through how many right angles does it turn altogether?

Ans: _____

3. Class Sincerity collected $8\frac{1}{5}$ kg of used newspaper this week. Class Perseverance collected $1\frac{3}{4}$ kg more. How many kilogrammes of used newspaper did both classes collect this week?

Ans: _____ kg

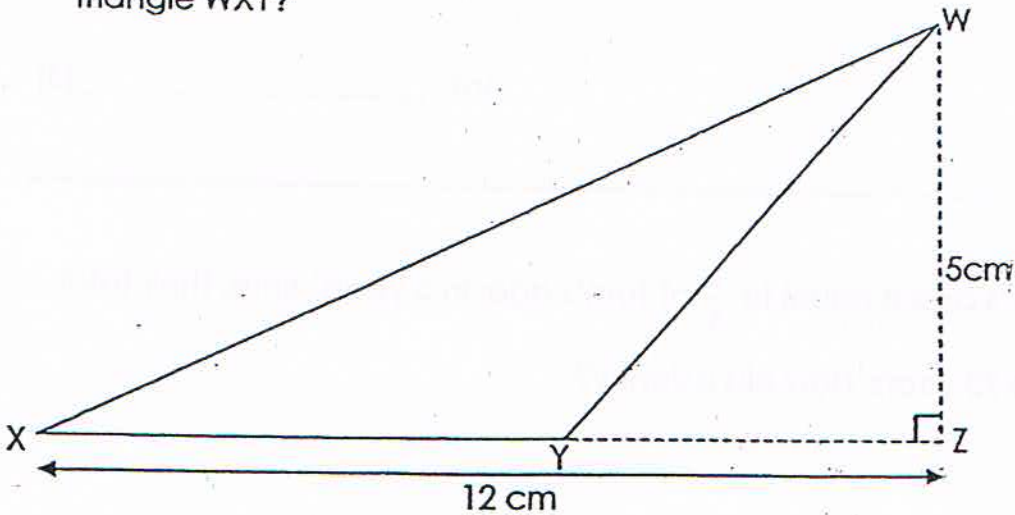
4. The School Dental Clinic opens from Monday to Friday for the time shown in the table below.

Opening hours
8.30 a.m. to 12.00 p.m.
1.30 p.m. to 5.00 p.m.
6.45 p.m. to 8.00 p.m.

How many hours and minutes is the clinic open each day?

Ans: _____ h _____ min

5. In the figure below, XYZ is a straight line and $WZ = YZ$. What is the area of Triangle WXY?



Ans: _____ cm²

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)

6. Mr Davidson bought a computer for \$2 650. He paid the deposit with fifty-dollar notes only and paid the rest of the amount at \$350 per month for half a year. How many pieces of fifty-dollar notes did he use to pay for the deposit?

Ans: _____ [3]

- 7) $\frac{1}{4}$ of Jenny's age is equal to $\frac{1}{3}$ of Tom's age. In 5 years' time, their total age will be 73 years. How old is Jenny?

Ans: _____ [3]

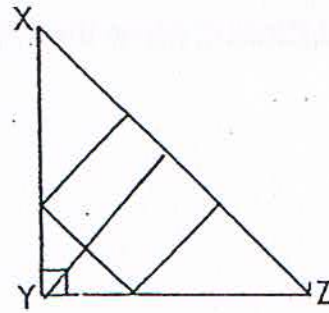
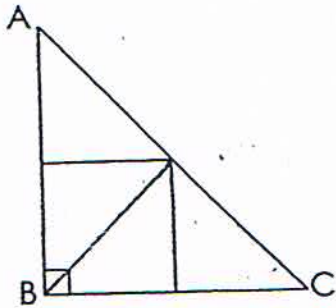
8. The pupils of 3 classes took part in a 'Skip for Charity' programme. A total of 16 260 skips were recorded. The number of skips from Class B was thrice as many as Class A. The number of skips from Class C was twice as many as the total number of skips from Class A and Class B. How many more skips did Class C have than Class B?

Ans: _____ [3]

9. Brenda and Charmaine shared some grapes in the ratio of 2 : 5 . When Charmaine gave 40 grapes to Brenda, the new ratio of Brenda's grapes to Charmaine's was 4 : 3 . How many grapes did Charmaine have at first?

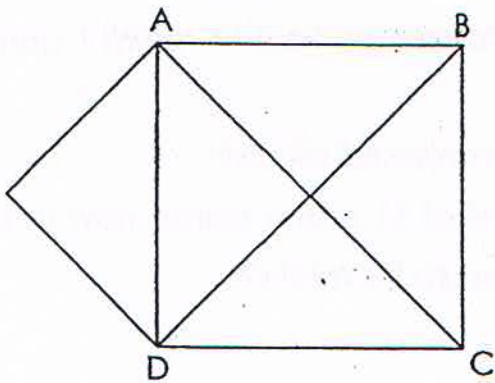
Ans: _____ [3]

10. The figure shows 2 identical triangles. Both contain a square of a different size. $AB = BC$ and $XY = YZ$. If the area of the square in Triangle ABC is 315cm^2 , find the area of the square in Triangle XYZ.



Ans: _____ [3]

11. The figure below is made up of 5 identical triangles. The perimeter of the square, ABCD, is 48 cm. Find the area of the whole figure.



Ans: _____ [3]

12. The figure below shows 36 sticks arranged perpendicularly. If the perimeter of the figure is 216 cm. Find the area enclosed by the sticks.

Ans: _____ [4]

13. Brandon had 30 Spelling Tests and collected 36 game cards. With every full marks he scored for a Spelling Test, he received 2 game cards from his teacher. When he did not score full marks, he had to return 1 game card.

(a) How many Spelling Tests did Brandon score full marks?

(b) If Brandon wanted to receive a total of 51 game cards, how many Spelling Tests could he afford **not** to score full marks?

Ans: (a) _____ [3]

(b) _____ [1]

14. Mrs Lee went to the bank and exchanged \$255 for some \$5 notes and \$2 notes. She has 5 more \$2 notes than \$5 notes. How many notes did she receive in total?








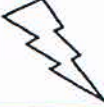

Ans: _____ [4]


15. Brian wanted to buy an iPad. He had only $\frac{4}{7}$ of the money needed to pay for the iPad. After his father gave him \$72, he was still short of $\frac{1}{3}$ of the money.
- (a) What was the cost of the iPad?
- (b) If he were to save \$12 a day, how many days would he take to save enough to buy the iPad?

Ans: (a) _____ [3]

(b) _____ [2]

16. Study the table below.

 +  + 	790
 +  + 	870
 +  + 	820

(a) What is the value of  ?

(b) If the value of  is $\frac{1}{2}$ that of  , what is the value of  ?

Ans: (a) _____

(b) _____

17. Using $\frac{3}{5}$ of her money, Chloe could buy 11 notebooks. If she was given an extra \$2, she could use it together with the remaining amount of money to buy another 8 such notebooks. How much money did Chloe have?

Ans: _____ [5]

18. Ali received \$25 more than Bala in their monthly allowance. Every month, each of them would save \$280 and spend the rest of the allowance. After some months, Ali had spent \$3 425 and Bala had spent \$3 300.

(a) How many months did Ali take to spend \$3 425?

(b) What was Bala's monthly allowance?

Ans: (a) _____ [2]

(b) _____ [3]

END OF PAPER



ANSWER SHEET

EXAM PAPER 2011

SCHOOL : TAO NAN
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

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

16) six million, five hundred and three thousand and fourteen.

17) 76340

18) 210000

19) 24640

20) 306

21) $1/16$

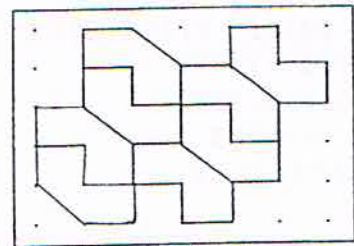
22) $1/4$

23) EF

24) PZ

25) C

26)



27) 2

28) 99

29) 47

30) 30cm

Paper 2

1) $6 + 5 = 11$

$66 \div 11 = 6$

$6 \times 5 = 30$

There are 30 girls

2) $360 \div 90 = 4$

$4 \times 5 = 20$

It turns 20 right angles.

3) $8\frac{1}{5} = 1\frac{1}{4} = 9\frac{19}{20}$

$8\frac{1}{5} + 9\frac{19}{20} = 18\frac{3}{20}$

The collected $18\frac{3}{20}$ kg

4) $3\text{h } 30\text{min} + 3\text{h } 30\text{min} + 1\text{h } 15\text{min} = 8\text{h } 15\text{min}$

It is open for 8h 15min

5) $12 - 5 = 7$

$\frac{1}{2} \times 7 \times 5 = 17.5$

The area is 17.5cm^2

6) $12 \div 2 = 6$

$350 \times 6 = 2100$

$2650 - 2100 = 550$

$550 \div 50 = 11$

He used 11 \$50 notes

7) $5 \times 2 = 10$

$73 - 10 = 63$

$4 + 3 = 7$

$63 \div 7 = 9$

$9 \times 4 = 36$

Jenny is 36 years old

8) $1 + 3 = 4$

$4 \times 2 = 8$

$1 + 3 + 8 = 12$

$16260 \div 12 = 1355$

$1355 \times 3 = 4065$

$10840 - 4065 = 6775$

Class C did 6775 more skips than Class B

9) $5 - 3 = 2$

$40 \div 2 = 20$

$20 \times 5 = 100$

Charmaine had 100 grapes.

10) $315 \div 2 = 157.5$

$157.5 \times 4 = 630$

$630 \div 9 = 70$

$70 \times 4 = 280$

The area is 280cm²

11) $48 \div 4 = 12$

$12 \div 2 = 6$

$\frac{1}{2} \times 12 \times 6 = 36$

$36 \times 5 = 180\text{cm}^2$

12) $216 \div 36 = 6$

$6 \times 6 = 36$

$1+3+5+7+9+7+5+3+1=41$

$41 \times 36 = 1476\text{cm}^2$

13)a) He scored full marks for 22 tests.

b) He could afford not to score full marks for 3 tests.

14) $5 \times 2 = 10$

$255 - 10 = 245$

$5 + 2 = 7$

$245 \div 7 = 35$

$35 \times 2 = 70$

$70 + 5 = 75$

She received 75 notes

15)a) $\frac{4}{7} = \frac{12}{21}$

$\frac{1}{3} = \frac{7}{21}$

$1 - \frac{12}{21} - \frac{7}{21} = \frac{2}{21}$

$72 \div 2 = 36$

$36 \times 21 = \$756$

b) $7 \times 36 = 252$

$252 \div 12 = 21$

16)a) $827 - 790 = 30$ (difference of (and ☆)

$870 - 30 = 840$ (3 ()

$840 \div 3 = 280$ (()

The value is 280

b) $1 + 2 = 3$

$790 - 280 = 510$

$510 \div 3 = 170$

The value is 170

18)a) $3425 - 3300 = 125$

$125 \div 25 = 5$

Ali took 5 months to spend \$3425

b) $3300 \div 5 = 660$

$660 + 280 = 940$

Bala's monthly allowance is \$940

17) $\frac{3}{5} \div 11 = \frac{3}{55}$

$\frac{3}{55} \times 8 = \frac{24}{55}$

$\frac{24}{55} - \frac{2}{5} = \frac{2}{55}$

$2 \div 2 = 1$

$1 \times 55 = 55$

She had \$55