



PRIMARY 5 MID-YEAR EXAMINATION 2012

Name : _____ () Date: 11 May 2012

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. Which of the following has the same value as 989 210?

- (1) $900\ 000 + 80\ 000 + 9\ 000 + 200 + 1$
- (2) $900\ 000 + 80\ 000 + 9\ 000 + 200 + 10$
- (3) $900\ 000 + 80\ 000 + 9\ 000 + 200 + 100$
- (4) $900\ 000 + 80\ 000 + 9\ 000 + 200 + 1000$

2. In 8 637 540, the digit _____ is in the ten thousands place.

- (1) 7
- (2) 6
- (3) 3
- (4) 5

3. A box of chocolates costs \$12.

How much do 25 boxes of chocolates cost?

- (1) \$15
- (2) \$41
- (3) \$300
- (4) \$410

4. What is the value of $4\frac{2}{9} - \frac{1}{3}$?

(1) $\frac{1}{6}$

(2) $\frac{8}{9}$

(3) $3\frac{8}{9}$

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

5. $7 : \square = 28 : 60$

What is the missing number in the box?

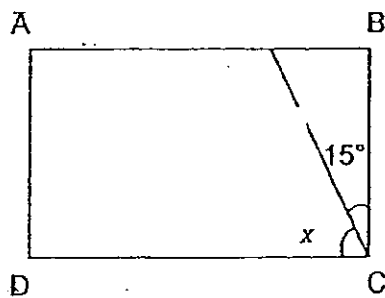
(1) 39

(2) 21

(3) 15

(4) 4

6. ABCD is a rectangle that is not drawn to scale. Find the value of $\angle x$.



(1) 30°

(2) 45°

(3) 75°

(4) 85°

7. What are the common factors of 54 and 36?

- (1) 1, 2, and 3
- (2) 1, 2, 3, and 6
- (3) 1, 2, 3, 6, and 9
- (4) 1, 2, 3, 6, 9, and 18

8. $1210 \div 11 = \boxed{} \times 11$

What is the missing number in the box?

- (1) 1
- (2) 10
- (3) 11
- (4) 22

9. A bottle can hold 1000 ml of olive oil. Danny wants to buy 17 such bottles of olive oil. Every 200 ml of olive oil costs \$2. How much does he have to pay altogether?

- (1) \$10
- (2) \$34
- (3) \$85
- (4) \$170

10. At a birthday party, $\frac{5}{12}$ of the guests wore red party hats, $\frac{1}{3}$ of them wore blue party hats and the rest wore green party hats. What fraction of the participants wore green party hats?

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

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

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

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

11. Edward has the same number of \$10 notes and \$5 notes. The total amount of money is \$1 260. How many \$5 notes are there?

1) 42

2) 84

3) 126

4) 252

12. Ali and Bala had \$240. Ali and Chun Li had \$460. Chun Li had 5 times as much as Bala. How much did Ali have?

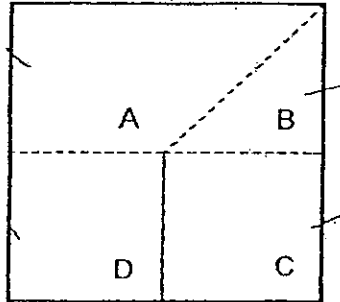
(1) \$44

(2) \$55

(3) \$185

(4) \$196

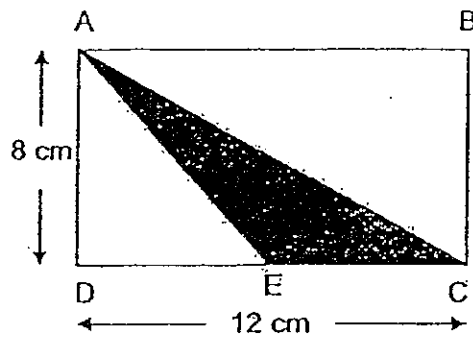
13. The figure below is not drawn to scale. It is made up of four parts, A, B, C and D. Parts C and D are squares and each is a quarter of the figure.



Which of the following two parts will add up to form $\frac{5}{8}$ of the figure?

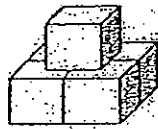
- (1) A and C
- (2) B and C
- (3) B and D
- (4) C and D

14. In the figure below, ABCD is a rectangle. E is the midpoint of the line DC. Find the area of the shaded part.

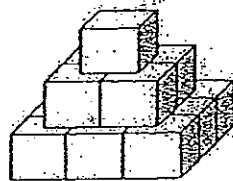


- (1) 24
- (2) 48
- (3) 72
- (4) 96

15. Fandy was building a square pyramid. He started by placing 1 cube over 4 cubes.



For a 3-level pyramid, he used 9 cubes as the base.



If he continued building and used 169 cubes as the base, how many levels were there?

- (1) 10 levels
- (2) 11 levels
- (3) 12 levels
- (4) 13 levels

- End of Booklet A -



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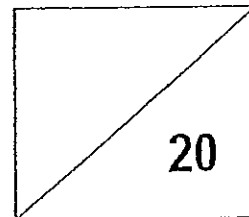
Time: 8.00 a.m. - 8.50 a.m.

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. What is the greatest 5-digit odd number that can be formed using the digits below? Use each digit once only.

6	5	4	8	2
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Ans: _____

17. Rearrange the following fractions in ascending order.

$$\frac{3}{4}, \frac{7}{8}, \frac{5}{6}, \frac{11}{12}, \frac{8}{9}$$

Ans: _____

18. 405 pupils will be going for a learning journey to the zoo.
What is the minimum number of buses needed to ferry all the pupils to the zoo if each bus can carry 40 students?

Ans: _____

19. What is the value of $52 + (82 - 10) \div 3 \times 2$?

Ans: _____

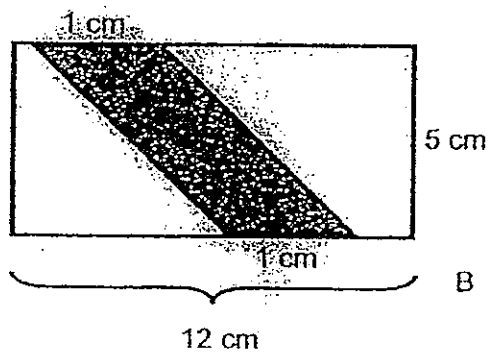
20. Find the product of $\frac{4}{7}$ and $\frac{5}{6}$. Express your answer in its simplest form.

Ans: _____

21. A wooden rod is $\frac{3}{4}$ m long. It is cut into 3 equal pieces. What is the length of each piece?

Ans: _____ m

22. The figure below is not drawn to scale. Find the shaded area.

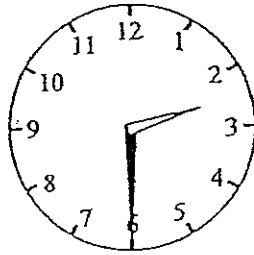


Ans: _____ cm^2

23. Gerri has \$30. Henry has \$12 less than Gerri. Find the ratio of Henry's money to Gerri's money. (Express your answer in its simplest term)

Ans: _____

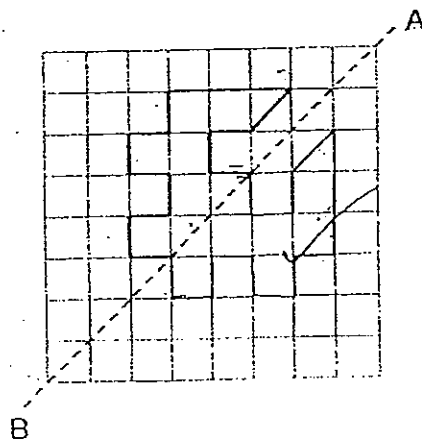
24. Isabel started playing netball at the time shown below.



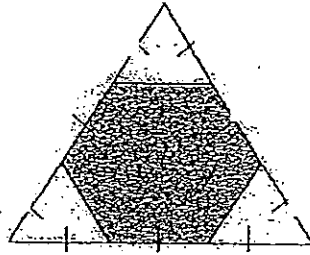
When she stopped playing, the clock showed 3.15pm. How many degrees had the minute hand moved?

Ans: _____°

25. The diagram below shows $\frac{1}{2}$ of a symmetrical figure: AB is a line of symmetry. Draw the missing half of the symmetrical figure.



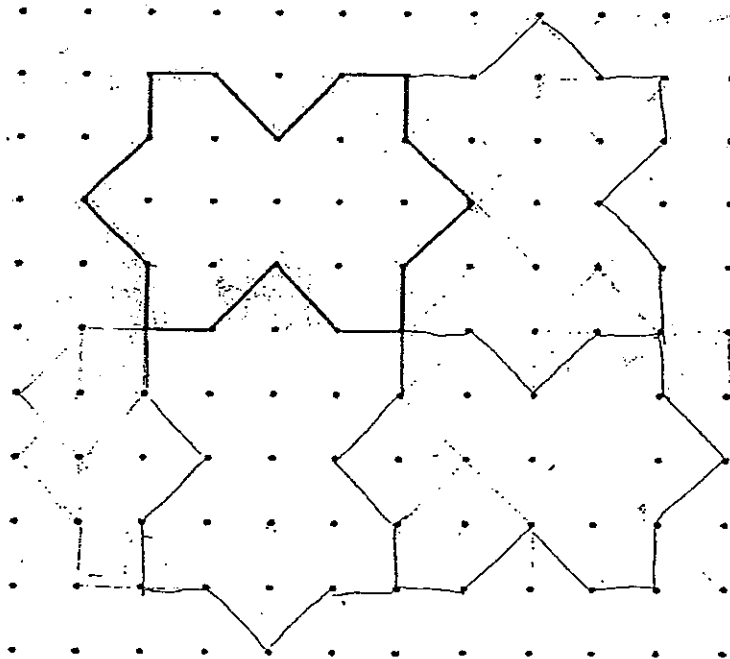
29. A shaded hexagon (6-sided figure) has been placed on top of a triangle with 3 equal sides.



What fraction of the area of the triangle is covered by the shaded hexagon?
(Give your answer in the simplest form)

Ans: _____

30. Use the given shape to form a tessellation in the space provided.
Draw 3 more of the given shape.



END OF PAPER 1



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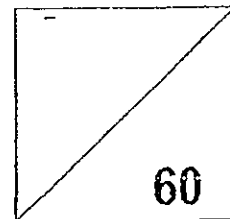
Class : Primary 5 ()

Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2



INSTRUCTIONS TO CANDIDATE

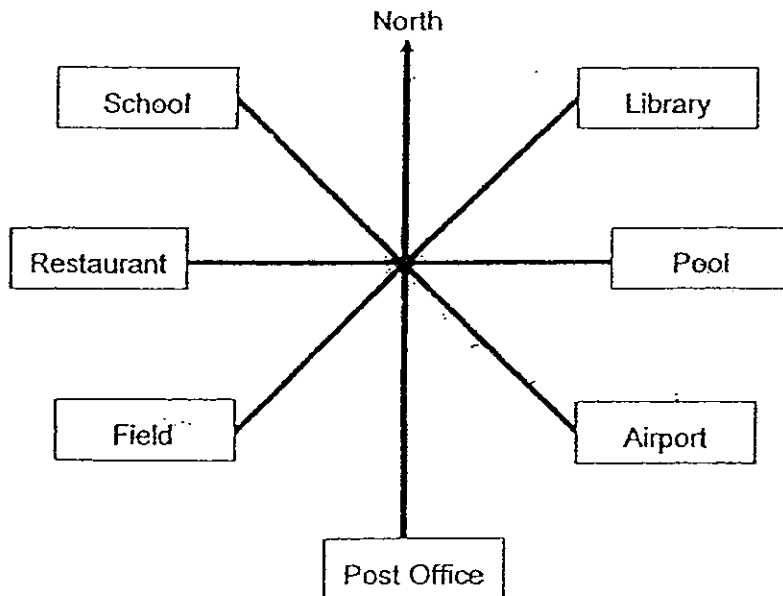
1. Write your name, class and register no.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

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)

1. Zheng Loó bought a box of cakes. The number of chocolate cakes in the box is $\frac{2}{5}$ of the number of vanilla cakes. Find the ratio of the number of vanilla cakes to the total number of cakes in the box.

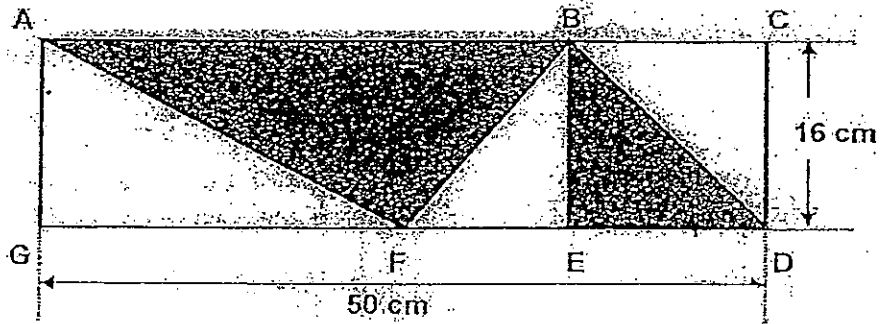
Ans: _____

2. Xavier is facing the airport. If Xavier turns anti-clockwise through 225° , where will he be facing?



Ans: _____

3. The figure below, not drawn to scale, consists of a rectangle, ABEG and a square, BCDE. CD is 16 cm long. Find the total shaded area.



Ans: _____

4. Yin Yin has thrice as many marbles as Witney. How many marbles must Yin Yin give Witney so that each of them will have 398 marbles?

Ans: _____

5) $\frac{2}{9}$ of the pupils in a school are Malays. There are 1320 more pupils of other races than Malays. What is the enrolment of the school?

Ans: _____

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. Vanessa had \$2 550. She gave half of it to her mother and divided the rest equally among her 4 sisters. How much did each sister get? Round off the answer to the nearest dollar.

Ans: _____ [3]

7. A tailor bought 68 packets of buttons. Each packet has 55 buttons. He used 15 buttons and repacked the rest of the buttons equally into containers. If he needed 25 containers after repacking, how many buttons were there in each container?

Ans: _____ [3]

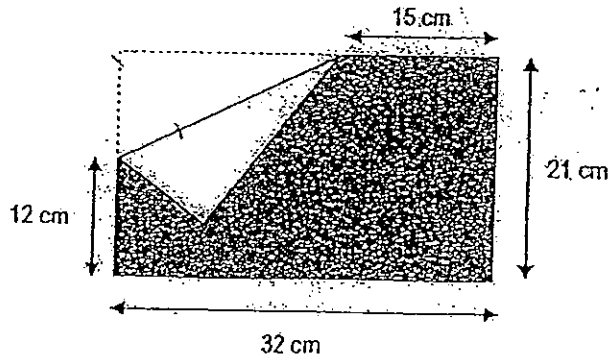
8. Kim is 7 years old. Her mother is 33 years old. In how many years' time will her mother be 3 times as old as Kim?

Ans: _____ [3]

9. My mother used a total of $3\frac{5}{6}$ l of cooking oil in January and February. She used $\frac{3}{4}$ l more cooking oil in February than in January. How much cooking oil did she use in February?

Ans: _____ [3]

10. A rectangular piece of paper is folded at a corner as shown in the figure below. The figure is not drawn to scale. What is the area of the shaded part of the piece of paper?



Ans: _____ [3]

11. Minah and her friends booked 3 tennis courts at a sports complex.

Booking Fee	First 2 hours	\$8
	Every additional hour or part thereof	\$3.50

They booked the tennis courts from 9.30 a.m. to 3.00 p.m. How much did they pay altogether?

Ans: _____ [3]

12. When Tish gives 10 of her sweets to Sybil, she will have four times as many sweets as Sybil. When she gives 20 of her sweets to Sybil, she will have three as many sweets as Sybil. How many sweets do they have altogether?

Ans: _____ [4]

13. The table below shows the number of the different brands of shoes manufactured in a foreign country.

Brand of shoes	Number
<i>Andidas</i>	320
<i>Nikey</i>	518
<i>New Balancing</i>	472
<i>Pumiah</i>	104
<i>Rebooks</i>	256

- a) What fraction of the shoes are *Pumiah* shoes?
- b) If $\frac{2}{5}$ of all the shoes were shipped out in the morning and $\frac{5}{6}$ of the remainder were shipped out in the afternoon, what was the number of shoes left?

Ans: (a) _____ [2]

(b) _____ [2]

14. Tickets for a football match were sold at \$25 each for a child and \$45 each for an adult. In total, \$34 625 was collected from the sale of tickets. The number of adults was 435 more than the number of children. How many adults attended the football match?

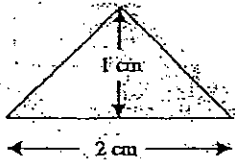
Ans: _____ [4].

15. There were 4 times as many red pens as blue pens in a box. 415 red pens and 46 blue pens were removed from the box. As a result, the number of blue pens became 3 times as many as red pens. How many blue pens were there in the beginning?

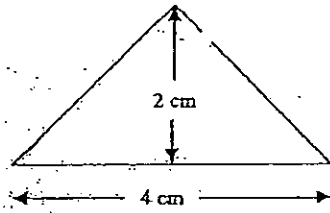
Ans: [5]

16. Andy drew triangles that follow a pattern as shown below. Study the pattern and answer the questions that follow.

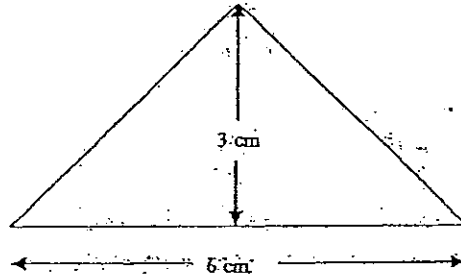
1st Triangle



2nd Triangle



3rd Triangle



- What is the area of the 8th Triangle?
- What is the total area of the first 5 triangles?
- Which triangle will have an area of 10 000 cm²?

a) _____ [1]

b) _____ [2]

c) _____ [2]

17. Mr Lee delivers vases for his company. For every vase that is delivered successfully, he receives \$18. For every vase that is broken, he needs to pay \$6 to his company. If he received \$2 616 for 280 vases,

a) how many vases were delivered successfully?

b) how many vases were broken?

Ans: a) _____ [4]

Ans: b) _____ [1]

18) The Queen, Prince and Princess had 270 diamonds. After receiving 90 diamonds for her birthday, the Queen decided to give $\frac{1}{2}$ of her diamonds to the Prince. The Prince then gave $\frac{2}{5}$ of his diamonds to the Princess. In the end, the three of them had the same number of diamonds. How many diamonds did each of them have at first?

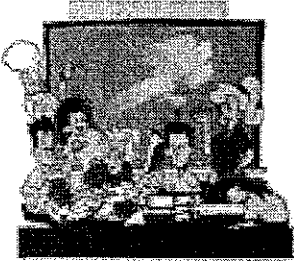
Ans: Prince → _____ [3]

Princess → _____ [1]

Queen → _____ [1]

END OF PAPER 2





ExamSutra 考试圣经

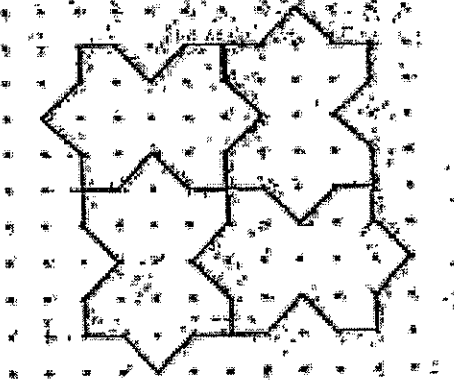
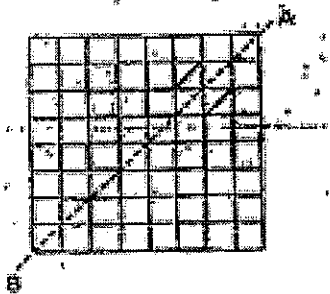
Answer Sheets

EXAM PAPER 2012

SCHOOL : TAO NAN
SUBJECT : PRIMARY 5 MATHEMATICS
TERM : SA1

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

- 16) 86425 17) $\frac{1}{4}, \frac{5}{6}, \frac{7}{8}, \frac{8}{9}, \frac{11}{12}$ 18) 11 19) 100
 20) 10/21 21) $\frac{1}{4}m$ 22) 5cm 23) 3 : 5 24) 270°
 25) 26) 55 27) \$3200 28) 4 29) $\frac{2}{3}$



Paper 2

1) Chocolate : Vanilla : Total
2 : 5 : 7

$$5 + 2 = 7$$

Ans: 5 : 7

2) Restaurant

3) $50 - 16 = 34$
 $\frac{1}{2} \times 34 \times 16 = 272$

4) $398 \div 2 = 199$

5) $9 - 2 = 7$
 $7 - 2 = 5$
 $1320 \div 5 = 264$
 $264 \times 9 = 2376$

6) $2550 \div 2 = 1275$
 $1275 \div 4 = 318.75$
 $318.75 \approx 319$
Each sister got \$319

7) $68 \times 55 = 3740$
 $3740 - 15 = 3725$
 $3725 \div 25 = 149$

There were 149 buttons in each container.

8) $33 - 7 = 26$
 $13 \times 3 = 39$
 $13 - 7 = 6$
 $39 - 33 = 6$
In 6 years' time.

9) $\frac{35}{6} = \frac{320}{24}$
 $\frac{3}{4} = \frac{18}{24}$
 $\frac{320}{24} - \frac{18}{24} = \frac{32}{24}$
 $\frac{32}{24} \div 2 = \frac{16}{24}$
 $\frac{16}{24} + \frac{18}{24} = \frac{27}{24}$
She used $\frac{27}{24}$ of oil in February.

$$10) 2 \left(\frac{1}{2} \times 9 \times 17 \right) = 153$$
$$(32 \times 21) - 153 = 519 \text{cm}^2$$

$$11) 9.30 \rightarrow 3 \text{pm} = 5.5 \text{h}$$
$$\$8 + 4 (\$3.50) = \$22$$
$$\$22 \times 3 = \$66$$

Trish : Sybil : Total	Trish : Sybil : Total
4 : 1 : 5	3 : 1 : 4
16 : 4 : 20 $\times 4$	15 : 5 : 20 $\times 5$

$$5 - 4 = 1$$
$$1 \text{ unit} \rightarrow 20 - 10 = 10$$
$$20 \text{ units} \rightarrow 20 \times 10 = 200$$

They have 200 sweets altogether.

$$13) a) 320 + 518 + 472 + 104 + 256 = 1670$$
$$104 / 1670 = 52 / 835$$

52 / 835 of the shoes are Pumah shoes.

$$b) 1670 \div 5 = 334$$
$$334 \times 2 = 668 \text{ (Morning)}$$
$$1670 - 668 = 1002$$
$$1002 \div 6 = 167$$
$$167 \times 5 = 835$$
$$1002 - 835 = 167$$

There were 167 shoes left.

$$14) 435 \times 45 = 19575$$
$$34625 - 19575 = 15050$$
$$45 + 25 = 70$$
$$15050 \div 70 = 215$$

215 adults attended the football match.

$$15) 46 \times 4 = 184$$
$$415 - 184 = 231$$
$$231 \div 11 = 21$$
$$21 \times 3 = 63$$
$$63 + 46 = 109$$

There were 109 blue pens in the beginning.

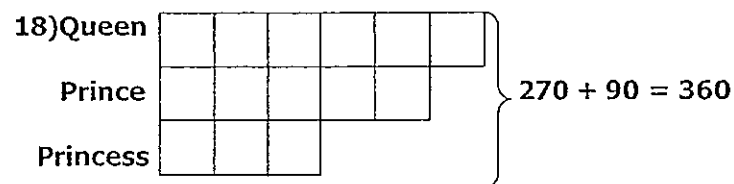
16)a) $8 \times 2 = 16$
 $\frac{1}{2} \times 16 \times 8 = 64\text{cm}$
 It is 64cm^2

b) $4 \times 2 = 8$
 $\frac{1}{2} \times 8 \times 3 = 16$
 $5 \times 2 = 10$
 $\frac{1}{2} \times 5 \times 10 = 25$
 $1+4+9+16+25 = 55$
 It is 55cm^2

c) $10000 = 100 \times 100$
 The 100^{th} triangle will have an area of 10000cm^2

17)a) $280 \times 18 = 5040$
 $5040 - 2616 = 2424$
 $18 + 6 = 24$
 $2424 \div 24 = 101$
 $280 - 101 = 179$
 179 vases were delivered successfully.

b) 101
 101 vases were broken.



$270 + 90 = 360$
 $360 \div 3 = 120$
 $360 \div 9 = 40$
 $40 \times 6 = 240$
 $240 - 90 = 150$ (Queen)
 $40 \times 2 = 80$ (Prince)
 $40 \times 1 = 40$)Princess)