

**2017**  
**MID-YEAR EXAMINATION**  
**PRIMARY 5**  
**MATHEMATICS**  
**Paper 1**  
**(Booklets A and B)**

**DURATION : 1 h**

**DATE : 15 May 2017**

**INSTRUCTIONS**

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

**Follow all instructions.**

**Answer all questions.**

**You are not allowed to use a calculator.**

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

**Marks :**

**Class : Primary 5 \_\_\_\_\_**

**5M \_\_\_\_\_**

<b>Paper 1</b>	<b>45</b>
<b>Paper 2</b>	<b>55</b>
<b>Total</b>	<b>100</b>

<b>Parent's Signature :</b> _____
<b>Date :</b> _____



**Paper 1**  
**Booklet A**

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)

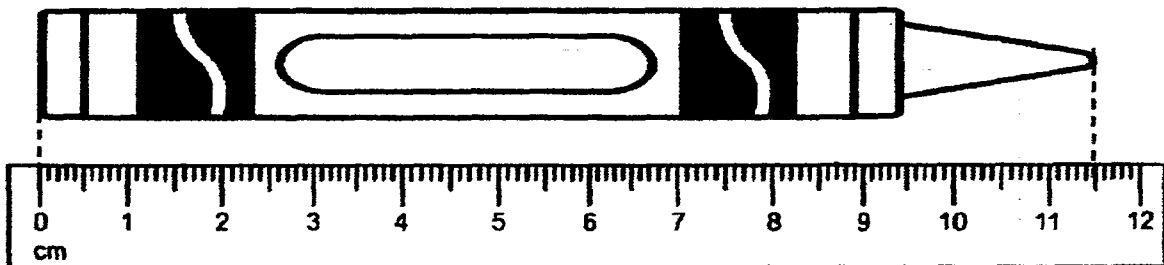
1 In 2 085 397, what is the value of the digit 8?

- (1) 8000
- (2) 80 000
- (3) 800 000
- (4) 8 000 000

2 In 3 870 453, which digit is in the thousands place?

- (1) 8
- (2) 7
- (3) 3
- (4) 0

3 In the figure below, what is the length of the crayon in cm?



- (1) 10.15 cm
- (2) 10.5 cm
- (3) 11.05 cm
- (4) 11.5 cm

4 Which of the following does not have the same value as  $\frac{3}{8}$ ?

(1)  $3 \div 8$

(2)  $8 \div 3$

(3)  $\frac{1}{4} + \frac{1}{8}$

(4)  $3 \times \frac{1}{8}$

5 How many hundreds make 7 000 000?

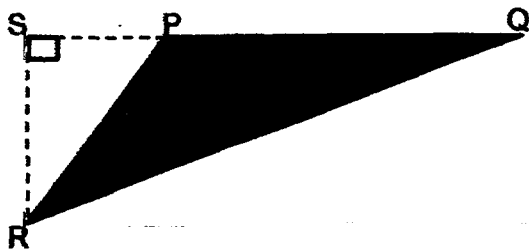
(1) 700

(2) 7000

(3) 70 000

(4) 700 000

6 In the figure, PQ is the base of the triangle PQR. Which line represents its height?



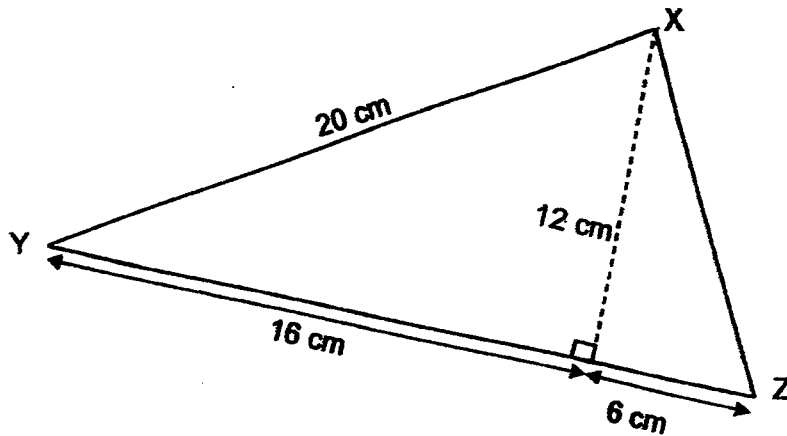
(1) SP

(2) SR

(3) PR

(4) RQ

7 What is the area of triangle XYZ shown below?



- (1) 36 cm<sup>2</sup>
- (2) 96 cm<sup>2</sup>
- (3) 132 cm<sup>2</sup>
- (4) 220 cm<sup>2</sup>

8 What is the missing number in the box?

$$21 : 15 = 14 : \square$$

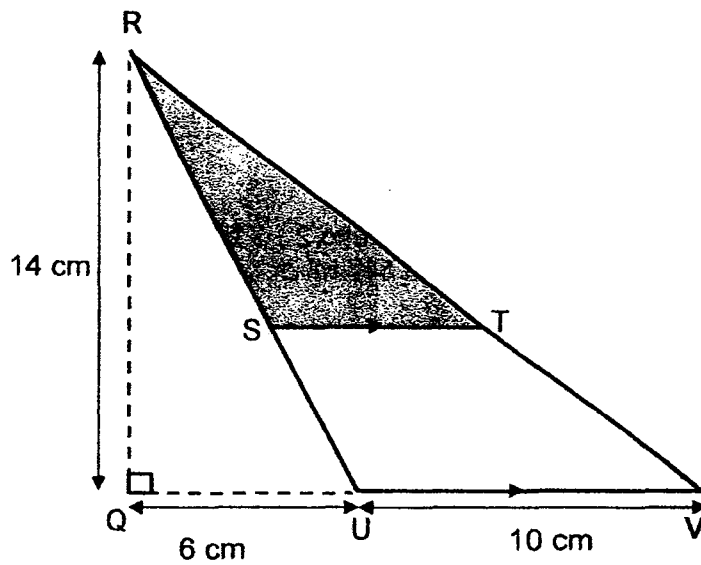
- (1) 10
- (2) 8
- (3) 7
- (4) 5

9 Which of the following is the same as  $5\frac{3}{8}$  km?

- (1) 5.83 km
- (2) 5.38 km
- (3) 5.375 km
- (4) 5.125 km

- 10 What is the value of  $84 - (8 \times 3) \div 6 + 11$ ?
- (1) 21  
(2) 49  
(3) 69  
(4) 91
- 11 James mixed red paint with blue paint in the ratio 2 : 3 to get purple paint. How much blue paint did James use to get 540 ml of purple paint?
- (1) 108 ml  
(2) 216 ml  
(3) 270 ml  
(4) 324 ml
- 12 Peter collected some postcards. After giving  $\frac{1}{6}$  of his postcards to his brother and  $\frac{3}{4}$  of them to his best friend, Peter had 5 postcards left. How many postcards did Peter have at first?
- (1) 20  
(2) 24  
(3) 55  
(4) 60
- 13 Sam and Ben had the same number of pears. After Sam sold 45 pears and Ben sold 125 pears, Sam had 5 times as many pears as Ben. How many pears did each of them have at first?
- (1)  $(125 - 45) \div 5$   
(2)  $(125 - 45) \div 4 \times 5$   
(3)  $(125 - 45) \div 4 + 125$   
(4)  $(125 - 45) \div 5 + 125$

- 14 The area of triangle RUV is twice the area of triangle RST.  
Find the area of triangle RST.



- (1)  $35 \text{ cm}^2$   
(2)  $42 \text{ cm}^2$   
(3)  $56 \text{ cm}^2$   
(4)  $70 \text{ cm}^2$
- 15 A baker sold tarts, buns and cupcakes in the ratio 8 : 5 : 12. The number of tarts sold is 40 less than the number of cupcakes sold. How many buns did the baker sell?
- (1) 50  
(2) 80  
(3) 120  
(4) 250

**Booklet B**

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.  
For questions which require units, give your answers in the units stated. (5 marks)

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16 Write six million, eight hundred and thirty-nine thousand and twenty in numerals.

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

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17 Find the value of  $\frac{3}{4} \times \frac{2}{3}$ .  
Give your answer in the simplest form.

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

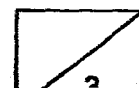
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18 Use all the digits shown below to form the smallest 6-digit number odd number.

2	5	0	7	4	8
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Ans: \_\_\_\_\_

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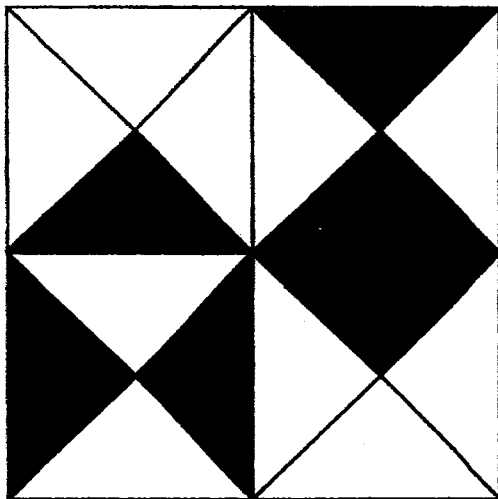


- 19 Maria mixed 350 ml of raspberry juice, 150 ml of cranberry juice and 900 ml of water to make fruit punch. What was the ratio of the amount of cranberry juice to the amount of raspberry juice to the amount of water?  
Give your answer in its simplest form.

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

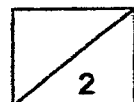
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- 20 In the figure, the square is divided into equal parts. What is the ratio of the number of shaded parts to the total number of parts in the square?  
Give your answer in its simplest form.



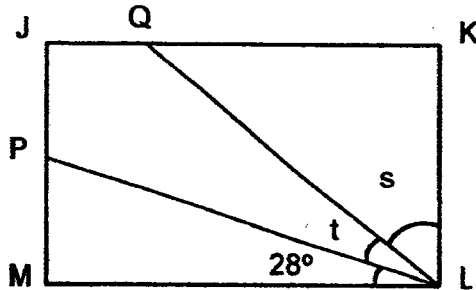
Ans: \_\_\_\_\_

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Questions 21 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. (20 marks)

21 JKLM is a rectangle.  $\angle s$  is  $10^\circ$  more than  $\angle t$ . Find  $\angle t$ .

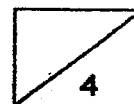


Ans: \_\_\_\_\_

22 Find the value of  $\frac{5}{12} + \frac{7}{8}$

Express your answer as a mixed number in its simplest form.

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



- 23 Joanne had \$900. She spent  $\frac{1}{3}$  of it on a mountain bike and another  $\frac{1}{9}$  of it on helmet. How much money did Joanne spend?

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

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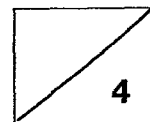
- 24 Anne wants to solve a 5-digit secret code to a safe. Use the clues to help Anne solve the secret code.

- All five digits are different.
- The digit in the hundreds place is 4.
- The digit in the ones place is 8 more than the digit in the ten thousands place.
- The digit in the thousands place is twice the digit in the tens place.

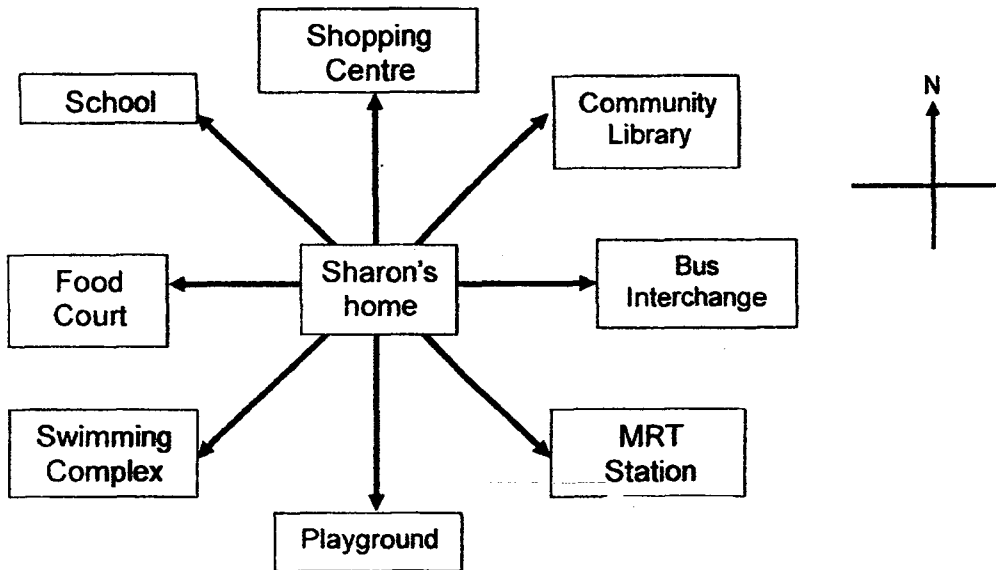
What is the secret code?

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

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25 The diagram below shows the direction of each place from Sharon's home.

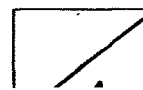


Sharon is at home facing the Shopping Centre. She wants to turn clockwise to face the MRT Station. How many degrees must she turn?

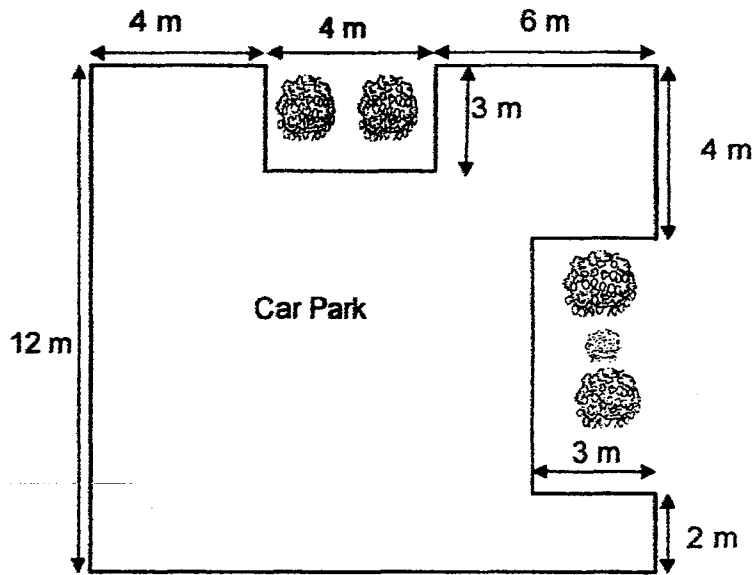
Ans: \_\_\_\_\_

26 In a cinema, the number of adults to the number of girls to the number of boys is 7 : 9 : 5. There are 63 adults. How many more girls than boys are there?

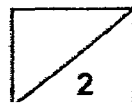
Ans: \_\_\_\_\_



- 27 Some workers are laying cement for a car park in the neighbourhood.  
Find the area of the car park. All lines in the diagram below meet at right angles.



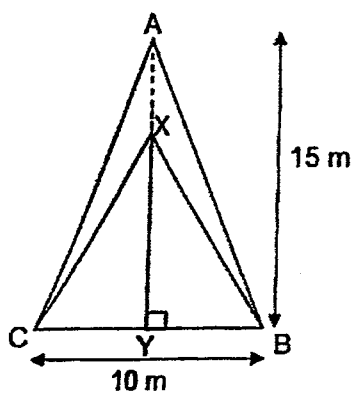
Ans: \_\_\_\_\_ m<sup>2</sup>



- 28 Mrs Lee arranged 105 white and blue beads in a circle to make a necklace. There were 4 white beads between 2 blue beads. How many blue beads did she use altogether?

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

- 29 In the figure below, the ratio of the length of XY to the length of AY is 2 : 3. Find the area of triangle CXB.



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

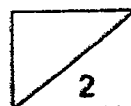


- 30 Eddie, Christine and John saved \$600 altogether. Eddie saved 3 times as much as Christine. John saved \$40 more than Christine. How much did Christine save?

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

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End Of Paper 1



**2017**  
**MID-YEAR EXAMINATION**  
**PRIMARY 5**  
**MATHEMATICS**  
**Paper 2**

**DURATION** : 1 h 30 min

**DATE** : 15 May 2017

**INSTRUCTIONS**

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

Follow all instructions.

Answer all questions.

You are allowed to use a calculator.

**Name** : \_\_\_\_\_

**Class** : Primary 5 \_\_\_\_\_

**5M** \_\_\_\_\_

<b>Parent's Signature</b> : _____
<b>Date</b> : _____

**Marks** :

<b>Total</b>	55
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**Paper 2**

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)

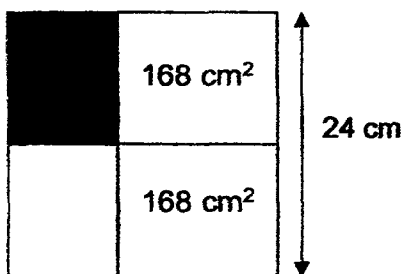
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- 1 Ahmad baked three types of muffins: chocolate, strawberry and vanilla in the ratio 6 : 3 : 5 for a school funfair. He baked 630 muffins altogether. How many strawberry muffins did he bake?

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

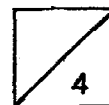
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- 2 The figure below is a square made up of 4 rectangles. Find the area of the shaded part.



Ans: \_\_\_\_\_  $\text{cm}^2$

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- 3 Sally bought 12 m of lace. She used  $4\frac{1}{5}$  m of it to decorate a curtain and  $\frac{1}{2}$  m to decorate some cushion covers. How much lace was left?

Give your answer as a mixed number in the simplest form.

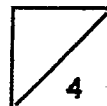
Ans: \_\_\_\_\_ m

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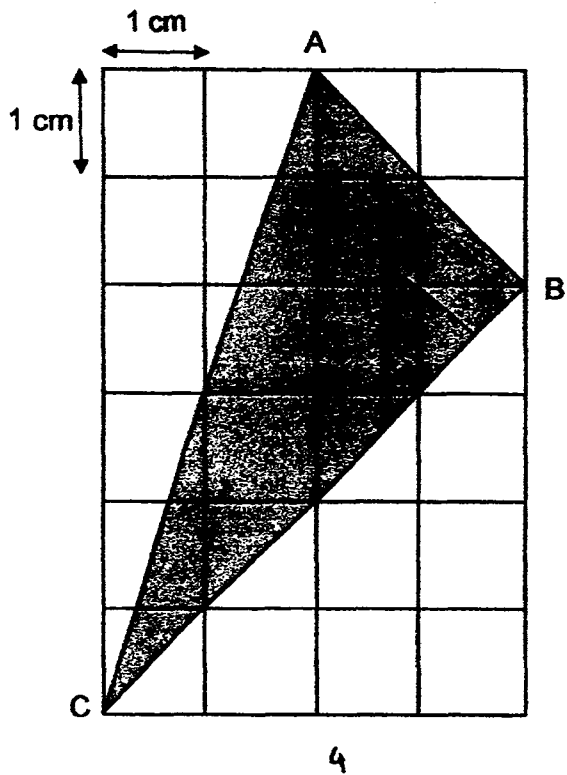
- 4 Mr Lim had  $3\frac{3}{5}$  ℓ of apple juice. He drank  $\frac{2}{3}$  of the apple juice. How much apple juice was left? Give your answer as a mixed number in the simplest form in litres.

Ans: \_\_\_\_\_ ℓ

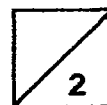
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5 Find the area of Triangle ABC.



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



For questions 6 to 18, show your working clearly in the space provided for each question and write the answers in the spaces provided.  
 The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (45 marks)


6

### Donuts Promotion

All donuts at \$2.50 each

Buy 5 and get 1 free!

Free!



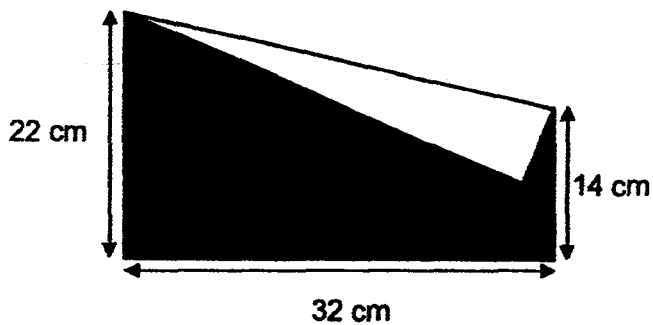
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Aileen paid \$50 for some donuts. How many donuts did she get?

Ans: \_\_\_\_\_ [3]

7 A rectangular piece of paper was folded to form the shape shown below. Find the shaded area.



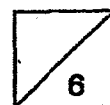
Ans: \_\_\_\_\_ [3]

- 8 The ratio of the number of stickers Sue has to the number of stickers Claire has is 3 : 7. Sue has 282 stickers. How many stickers must Claire give Sue so that they have an equal number of stickers?

Ans: \_\_\_\_\_ [3]

- 
- 9 The number of stamps Jayden has is between 20 and 60. If he arranges them into rows of 6 stamps each, he will have 2 stamps short. If he arranges them into rows of 7 stamps each, he will have 2 stamps left over. How many stamps does Jayden have?

Ans: \_\_\_\_\_ [3]



- 10 Elise bought  $2\frac{3}{4}$  kg of chicken. She used  $\frac{5}{6}$  kg of it to cook chicken porridge and  $\frac{1}{3}$  of the remainder to make a chicken pie. Find the mass of the chicken that Elise had left in kilograms. Give your answer as a mixed number in its simplest form.

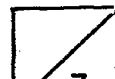
Ans: \_\_\_\_\_ [3]

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- 11 Tom, Fandi and Jerry each saved some money. Tom and Fandi saved a total of \$135. Fandi and Jerry saved a total of \$75. Tom saved 3 times as much money as Jerry. How much money did Fandi save?

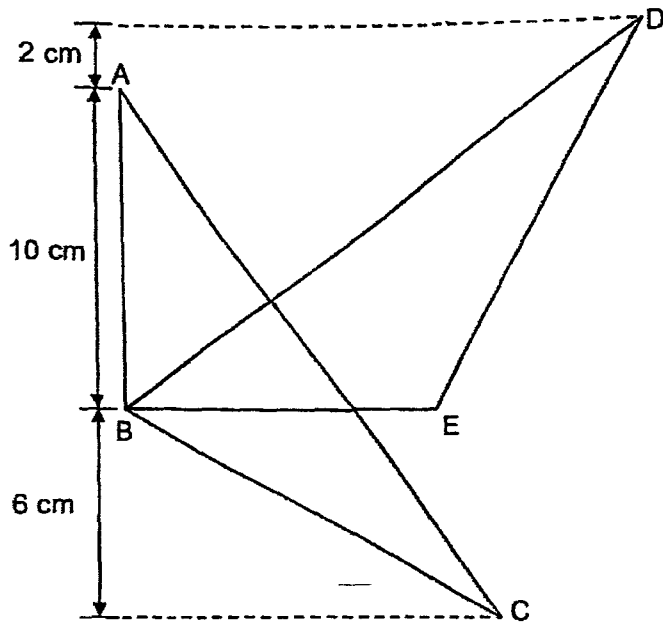
Ans: \_\_\_\_\_ [4]

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12 The figure below is made up of 2 identical triangles. The total area of the unshaded part is  $102 \text{ cm}^2$ .

- (a) Find the area <sup>of</sup> triangle ABC.
- (b) Find the area of the shaded part.



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

(b) \_\_\_\_\_ [2]



- 13 Three girls had 144 bookmarks altogether. Alysa gave some of her bookmarks to Betty and Betty's bookmarks were doubled. Then, Betty gave some of her bookmarks to Catty and Catty's bookmarks were doubled. As a result, the three girls had an equal number of bookmarks each. How many bookmarks did Betty have at first?

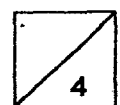
Ans: \_\_\_\_\_ [4]



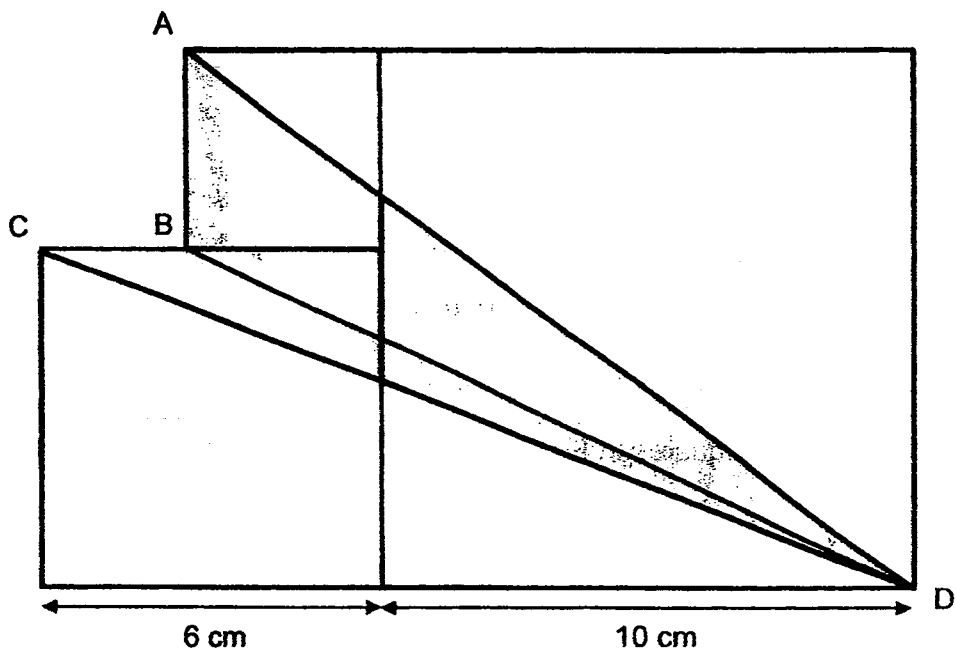


14 Mrs Hanif had 200 apples. She threw away 58 rotten ones and packed the rest in bags of 5 apples. Each bag of apples was sold for \$4. The remaining apples which were not packed were sold at 2 for \$1. How much money did Mrs Hanif collect in total from selling all the apples?

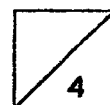
Ans: \_\_\_\_\_ [4]



- 15 The figure below is made up of 3 squares of different sizes. AD, BD and CD are straight lines. Find the area of the shaded part.



Ans: \_\_\_\_\_ [4]



16 Study the pattern below. Figure 1 is made up of 1 shaded square.

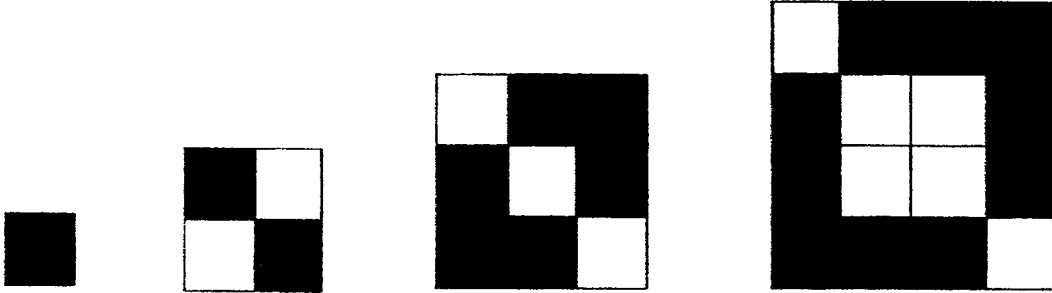


Figure 1

Figure 2

Figure 3

Figure 4

(a) Shade the correct squares in Figure 5.

[1]

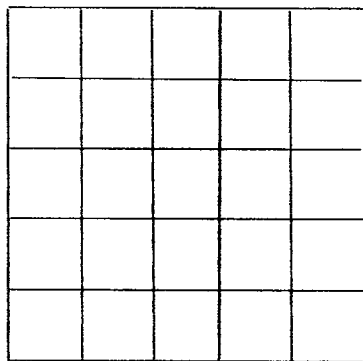


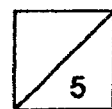
Figure 5

(b) How many shaded squares are there in Figure 12?

(c) In which figure will you find 90 shaded squares?

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

(c) \_\_\_\_\_ [2]

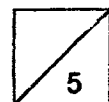


- 17 The cost of 3 similar pots and 5 similar kettles is \$312. The cost of 5 similar pots and 3 similar kettles is \$80 less. What is the cost of 1 kettle?

Ans: \_\_\_\_\_ [5]

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End of Paper  
— CHECK YOUR WORK CAREFULLY —



School: Ai Tong  
 Level: P5  
 Subject: Maths  
 Term: SA1  
 Year: 2017

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

Q16) 6839020      Q17)  $\frac{1}{2}$       Q18) 204587      Q19) 3 : 7 : 18      Q20) 3 : 8  
 Q21) 26      Q22)  $1\frac{7}{24}$       Q23) 480      Q24) 16439      Q25) 135  
 Q26) 36      Q27) 138      Q28) 21      Q29) 50 m<sup>2</sup>      Q30) 112

### Paper 2

Q1)  $6 + 3 + 5 = 14$   
 $630 \div 14 = 45$   
 $45 \times 3 = 135$

Q2)  $24 \times 24 = 576$   
 $168 \times 2 = 336$   
 $576 - 336 = 240$   
 $240 \div 2 = 120$

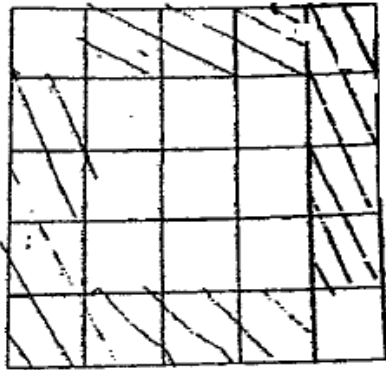
Q3)  $\frac{1}{5} = \frac{2}{10}$   
 $4.2 + 0.5 = 4.7$   
 $12 - 4.7 = 7.3 = 7\frac{3}{10}$

Q4)  $\frac{2}{3} \times 3.6 = 2.4$   
 $3.6 - 2.4 = 1.2 = 1\frac{1}{5}$

Q5)  $\frac{1}{2} \times 2 \times 6 = 6$   
 $\frac{1}{2} \times 2 \times 2 = 2$   
 $\frac{1}{2} \times 4 \times 4 = 8$   
 $6 \times 4 = 24$   
 $24 - 6 - 2 - 8 = 8$

- Q6)  $50 \div 2.50 = 20$   
 $20 \div 5 = 4$   
 $20 + 4 = 24$
- Q7)  $22 - 14 = 8$   
 $\frac{1}{2} \times 8 \times 32 = 128$   
 $704 - 128 = 576$   
 $704 - (128 \times 2) = 448 \text{ cm}^2$
- Q8)  $282 \div 3 = 94$   
 $7 - 3 = 4$   
 $94 \times 4 = 376$   
 $376 \div 2 = 188$
- Q9)  $60 - 2 = 58$   
 $56 + 2 = 58$
- Q10)  $\frac{2}{3} \times 1\frac{11}{12} = 1\frac{5}{18}$
- Q11)  $135 - 75 = 60$   
 $60 \div 2 = 30$   
 $30 \times 3 = 90$   
 $135 - 90 = 45$
- Q12) a)  $60 \text{ cm}^2$   
b)  $9 \text{ cm}^2$
- Q13) 36
- Q14)  $200 - 58 = 142$   
 $142 \div 5 = 28 \text{ R } 2$   
 $28 \times 4 = 112$   
 $112 + 1 = 113$
- Q15)  $(6 \times 6) + (10 \times 10) + (4 \times 4) = 152$   
 $(0.5 \times 6 \times 16) + (0.5 \times 14 \times 10) = 118$   
 $152 - 118 = 34 \text{ cm}^2$

Q16) a)



b)  $12 - 5 = 7$

$7 \times 4 = 28$

$14 + 28 = 42$

c)  $20 - 12 = 8$

$8 \times 4 = 32$

$32 + 42 = 74$

$4 \times 4 = 16$

$74 + 16 = 90,$

Ans: 24

Q17)  $312 - 80 = 232$

$312 \times 5 = 1560$

$232 \times 3 = 696$

$1560 - 696 = 864$

$25 - 9 = 16$

$864 \div 16 = \$54$