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MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/1 (A)

PSLE
26 SEPTEMBER 2014

MATHEMATICS
PAPER 1
(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time for Booklets A and B : 50 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
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. The use of calculators is **NOT** allowed.

This booklet consists of 8 printed pages.



Singapore Examinations and Assessment Board

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) and shade your answer on the Optical Answer Sheet.
(20 marks)

1 Round off 70.171 to the nearest tenth.

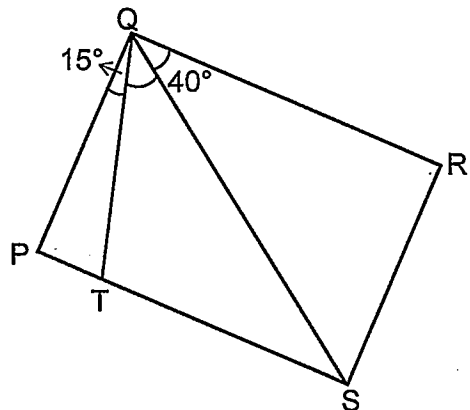
- (1) 70
- (2) 70.1
- (3) 70.2
- (4) 70.17

2 Which one of the following is the most likely length of a bed for an adult?

- (1) 2 m
- (2) 2 cm
- (3) 20 m
- (4) 20 cm

3 In the figure, PQRS is a rectangle. $\angle PQT = 15^\circ$ and $\angle SQR = 40^\circ$.
Find $\angle TQS$.

- (1) 25°
- (2) 30°
- (3) 35°
- (4) 40°

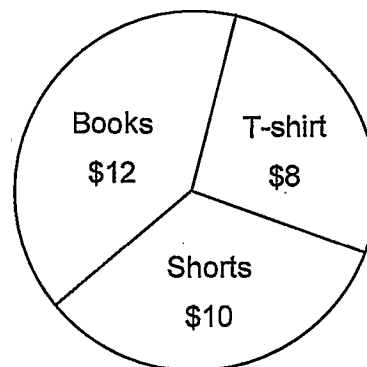


- 4 Rajah paid \$5 for a box of 20 pencils. What was the cost of each pencil?

- (1) 25¢
- (2) 20¢
- (3) 5¢
- (4) 4¢

- 5 The pie chart shows how Joel spent the money his mother gave him. What fraction of the money did he spend on books?

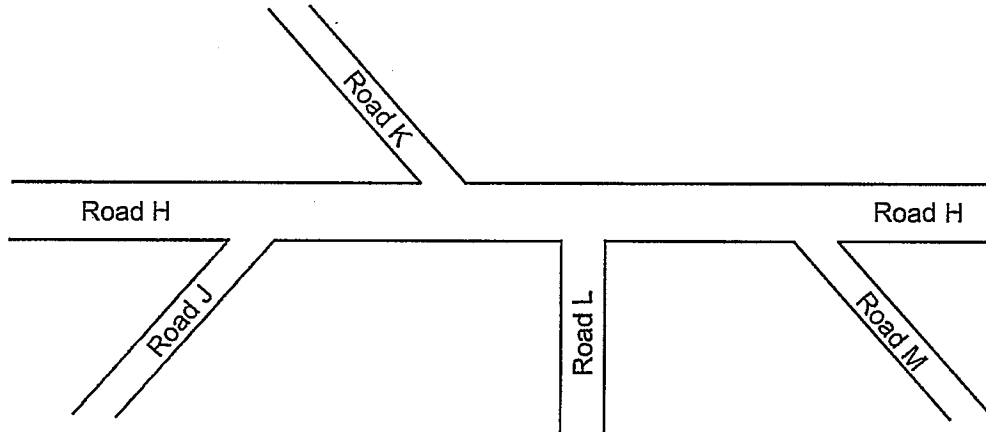
- (1) $\frac{1}{3}$
- (2) $\frac{1}{4}$
- (3) $\frac{2}{3}$
- (4) $\frac{2}{5}$



- 6 What is the value of $\frac{21w}{10} - w + 1$ when $w = 2$?

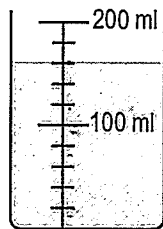
- (1) 1.2
- (2) 3.1
- (3) 3.2
- (4) 5.2

- 7 The figure shows a road map.

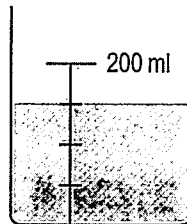


A car moved along Road H. After the car turned into another road, it faced south-east. Which road did it turn into?

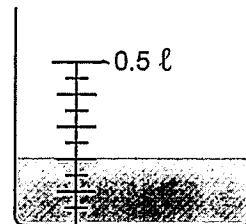
- (1) Road J
 - (2) Road K
 - (3) Road L
 - (4) Road M
- 8 Three containers with some water are shown below. Which container has the most water and which container has the least?



A



B



C

- | | <u>Most</u> | <u>Least</u> |
|-----|-------------|--------------|
| (1) | A | B |
| (2) | A | C |
| (3) | C | A |
| (4) | C | B |

- 9 Mariam had $\$4y$. After buying some cloth at $\$7$ per metre, she had $\$y$ left. How many metres of cloth did she buy?

(1) $\frac{3y}{7}$

(2) $\frac{5y}{7}$

(3) $21y$

(4) $35y$

- 10 Which one of the following fractions is larger than $\frac{1}{3}$?

(1) $\frac{7}{21}$

(2) $\frac{6}{17}$

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

(4) $\frac{3}{11}$

- 11 Weili wanted to pack 60 apples and 75 pears into as many bags as possible, with no remainder. She packed the same number of fruit in each bag. The number of apples in each bag was the same. How many apples were there in each bag?

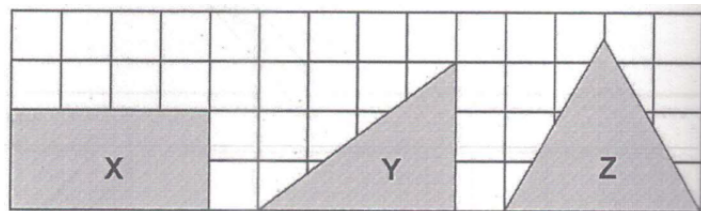
(1) 15

(2) 12

(3) 5

(4) 4

- 12** In the square grid below, X is a rectangle, Y a right-angled triangle and Z an equilateral triangle. Arrange X, Y and Z from the smallest area to the largest.

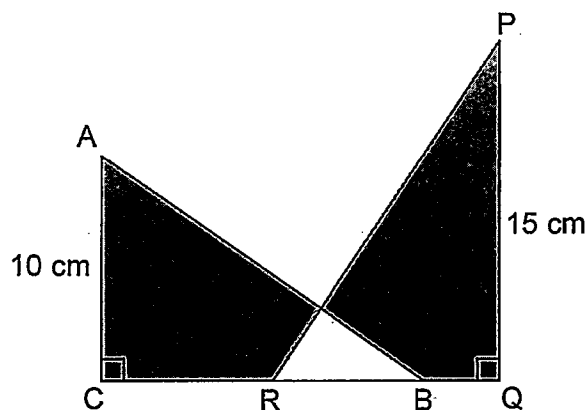


- | | <u>Smallest</u> | | <u>Largest</u> |
|-----|-----------------|----|----------------|
| (1) | X, | Y, | Z |
| (2) | Y, | X, | Z |
| (3) | Y, | Z, | X |
| (4) | Z, | Y, | X |
- 13** After a discount of 25%, the price of a concert ticket is \$60. Senior citizens are given a further discount of \$12. What is the total percentage discount given to senior citizens for the ticket?
- (1) 37%
- (2) 40%
- (3) 41%
- (4) 45%

- 14 A shop had a number of computers for sale. After selling 32 of them in the morning and $\frac{5}{8}$ of the remainder in the afternoon, it was left with $\frac{1}{4}$ of the computers. How many computers were sold altogether?

- (1) 52
- (2) 64
- (3) 72
- (4) 96

- 15 In the figure, ABC and PQR are identical right-angled triangles. The total area of the shaded parts is 96 cm^2 . Find the area of the unshaded part.



- (1) 21 cm^2
- (2) 27 cm^2
- (3) 42 cm^2
- (4) 54 cm^2

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MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/1 (B)

PSLE
26 SEPTEMBER 2014

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Time for Booklets A and B : 50 min



This booklet consists of 8 printed pages.

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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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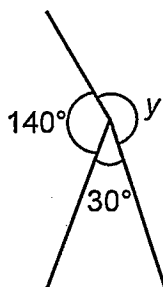
16 Find the value of $10.3 - 0.99$

Ans: _____

17 Find the value of $2 - \frac{2}{3} - \frac{3}{4}$

Ans: _____

18 In the figure below, find $\angle y$.



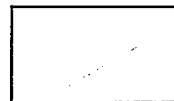
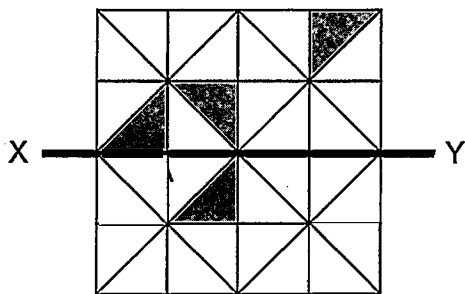
Ans: _____

19 Express $\frac{2}{25}$ as a decimal.

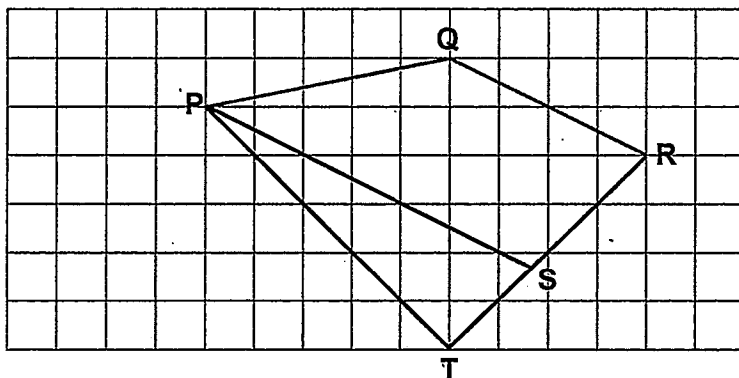
Ans: _____

- 20 The figure below is made up of identical triangles. Four of them are shaded. Shade two more triangles so that XY is the line of symmetry for the figure.

Do not write in this space



Refer to the figure below to answer questions 21 and 22.



- 21 Name two lines that are parallel to each other.

Ans: _____ and _____



- 22 Name two lines that are perpendicular to each other.

Ans: _____ and _____

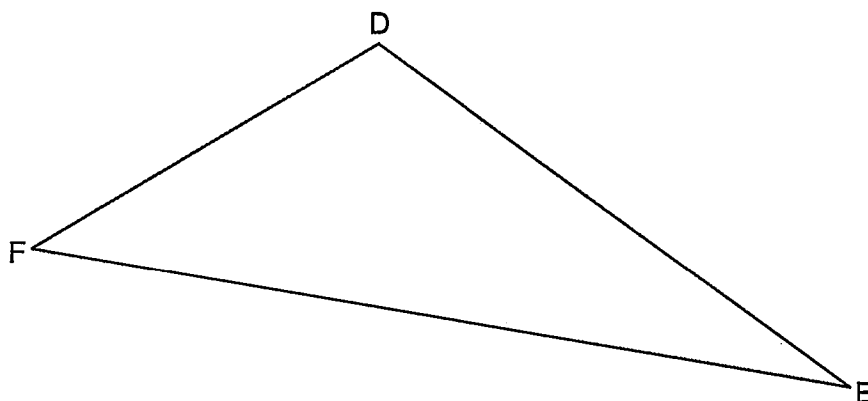


- 23 A postbox is 450 m from Liang's house. Liang took 10 min to walk from his house to the postbox and back again. What was his average walking speed?

Do not write
in this space

Ans: _____ m/min

Use the figure below to answer questions 24 and 25.



- 24 Measure and write down the length DE to the nearest 0.1 cm.

Ans: _____ cm

- 25 Measure and write down the size of $\angle FDE$.

Ans: _____ °

Questions 26 to 30 carry 2 marks each. Show your working clearly 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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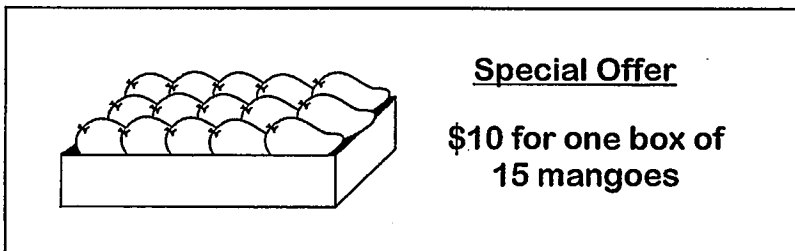
26 Use all the digits 6, 5, 2, 8 to form

- (a) the smallest multiple of 5
- (b) the number closest to 6000

Ans: (a) _____

(b) _____

27



Three friends shared the cost of 60 mangoes in the ratio 1 : 2 : 2.
What was the cost for the smallest share?

Ans: \$ _____

- 28** A student used a calculator to divide a 4-digit number by a 1-digit number. For the 1-digit number, he made a mistake by pressing 4 instead of 5. He obtained the incorrect answer of 260. What should be the correct answer?

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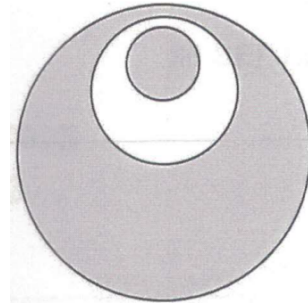
Ans: _____

- 29** Ismail has some cookies. If he gives each of his friends 5 cookies, there is no remainder. If he gives each of them 3 cookies instead, he will have 36 left. How many cookies does Ismail have?

Ans: _____

- 30 Ming drew three circles to form a figure. The areas of the circles were in the ratio 1 : 4 : 16. She then shaded some parts of the figure as shown. What fraction of the figure was shaded?

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Ans: _____



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MINISTRY OF EDUCATION, SINGAPORE
PRIMARY SCHOOL LEAVING EXAMINATION

0008/2

PSLE
26 SEPTEMBER 2014

MATHEMATICS
PAPER 2

Time: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

1. Write your Index No. in the boxes at the top right hand corner.
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. The use of an approved calculator is expected, where appropriate.



This booklet consists of 15 printed pages and 1 blank page.

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BLANK PAGE

Questions 1 to 5 carry 2 marks each. Show your working clearly 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 The average of 9 numbers is 140. One of the numbers is 180.
What is the average of the other 8 numbers?

Ans: _____

- 2 Three boys collected plastic bottles for recycling. Jaya collected $2m$ bottles which was half as many as what Kai collected. Kai collected 7 bottles more than Lat. How many bottles did they collect altogether?
Give your answer in terms of m in the simplest form.

Ans: _____

- 3 Paul answered 30 questions in a quiz. He took 3 min for each of the first 10 questions and twice as long for each of the remaining questions.
The quiz started at 1.45 p.m. At what time did he complete the quiz?

Ans: _____ p.m.

- 4 A youth club has 50 male and 70 female members. 16% of the male members and 10% of the female members are students. What percentage of the members are students?

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Ans: _____ %

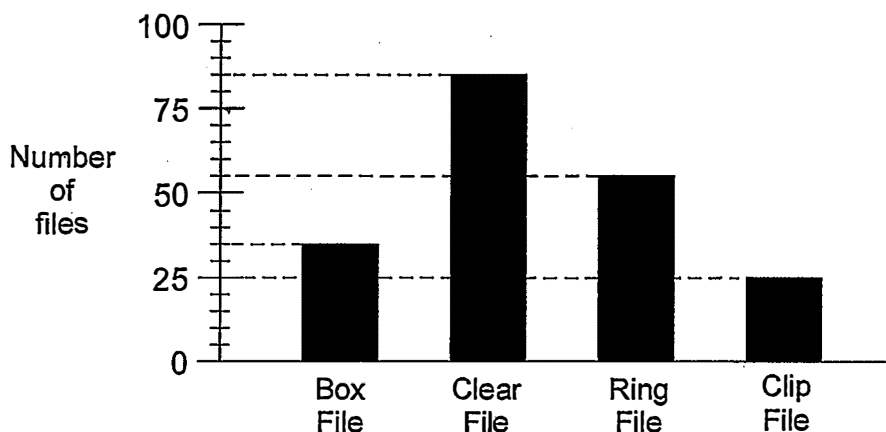
- 5 A teacher has a number of happy face stickers in three colours: yellow, orange and blue. $\frac{3}{10}$ of the stickers are yellow. The number of yellow stickers is twice the number of orange stickers. What fraction of the stickers are blue?

Ans: _____

For questions 6 to 18, show your working clearly 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)

Do not write in this space

6. The bar graph shows the number of each type of file sold by a shop.



The table shows the prices of the files.

Type of file	Price per file
Box	\$3.00
Clear	\$1.40
Ring	\$2.20
Clip	\$4.00

- (a) What fraction of the files sold were clip files?
Give your answer in the simplest form.
- (b) From the sale of which type of file did the shop collect the most money?
What was the amount of money?

Ans: (a) _____ [2]

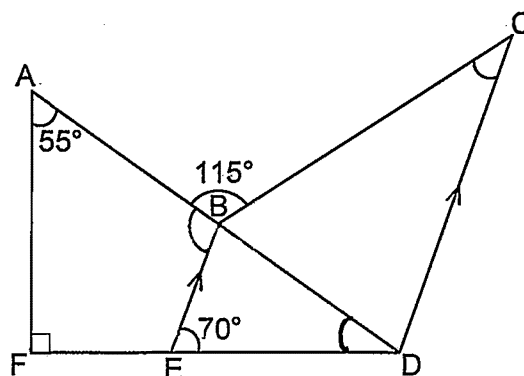
(b) Type: _____

Amount: _____ [2]

- 7 In the figure, ABD and FED are straight lines and EB is parallel to DC. $\angle EFA$ is a right angle, $\angle FAB = 55^\circ$, $\angle ABC = 115^\circ$ and $\angle DEB = 70^\circ$.

(a) Find $\angle ABE$.

(b) Find $\angle BCD$.

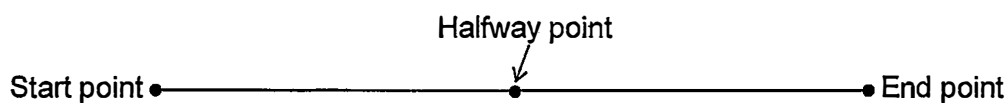


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Ans: (a) _____ [2]

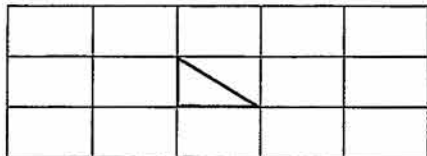
(b) _____ [2]

- 8 Dan and Ellen started jogging at the same time along the route shown below. Both did not change their speeds throughout. After 35 min, Dan was at the halfway point and Ellen was 300 m behind. Dan reached the end point 5 min before Ellen. What was the distance of the route?

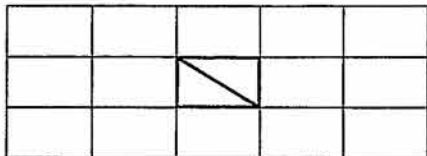


Ans: _____ [3]

- 9 A unit shape in the form of a right-angled triangle is drawn in the grid below.

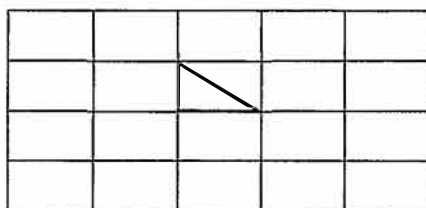


Cindy forms a rectangle by joining two unit shapes as shown below.

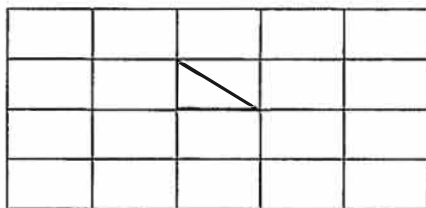


In addition to the rectangle, Cindy wants to form three more figures: a parallelogram, a rhombus and a trapezium. Each figure is to be formed with the **smallest** number of unit shapes. All four figures should be **different** from each other.

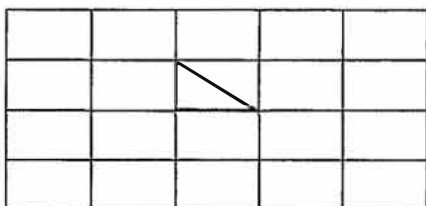
Complete the drawing of the other three figures below by adding one or more unit shapes to the one drawn.



Parallelogram



Rhombus



Trapezium

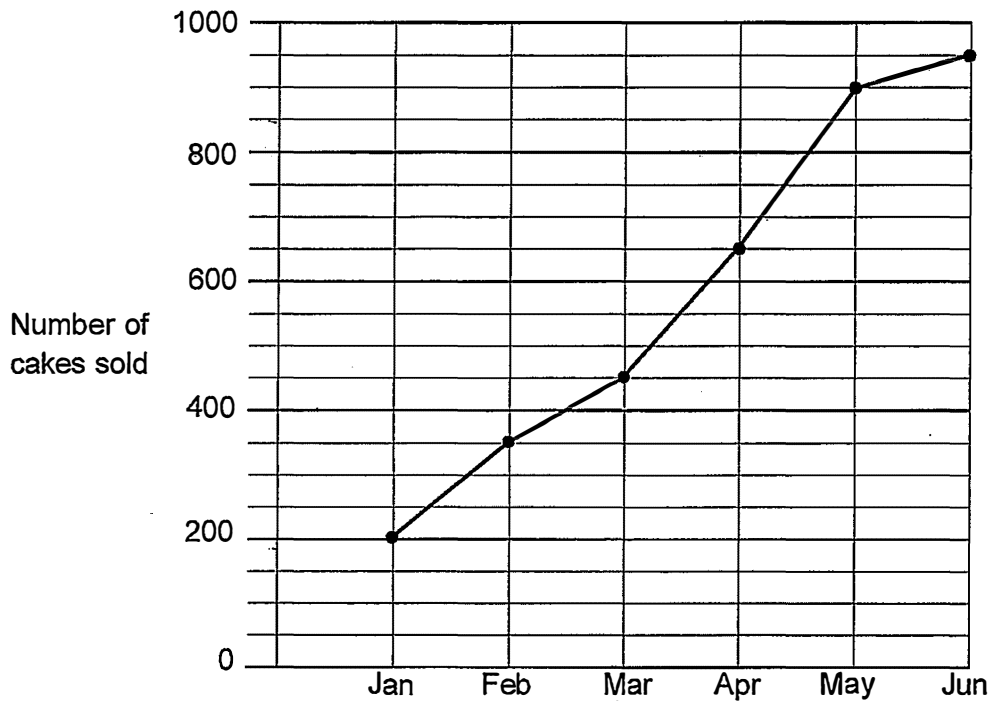
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[3]



- 10 The graph below shows the number of cakes sold each month by a new bakery from January to June.

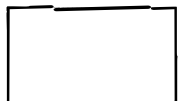
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- (a) How many more cakes were sold in May than in April?
- (b) What was the percentage increase in the number of cakes sold in June compared to January?

Ans: (a) _____ [1]

(b) _____ [2]

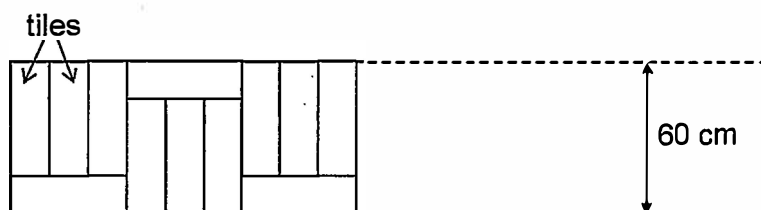


- 11 Mei was given \$3 pocket money every day of the week. She spent \$2.60 per day from Monday to Friday and saved the rest. She saved all her pocket money on Saturday and Sunday. Starting on a Monday, how many days did it take her to save \$50?

Do not write
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Ans: _____ [3]

- 12 A path of length 18 m is completely covered with identical tiles, following the pattern shown below. The width of the path is 60 cm. How many tiles were used to cover the entire path?

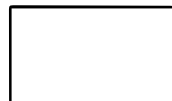


Ans: _____ [3]

- 13 Mr Lim had a total of 540 long and short rulers. After selling an equal number of both types, he had $\frac{1}{3}$ of the long rulers and $\frac{1}{6}$ of the short ones left. What was the total number of rulers left?

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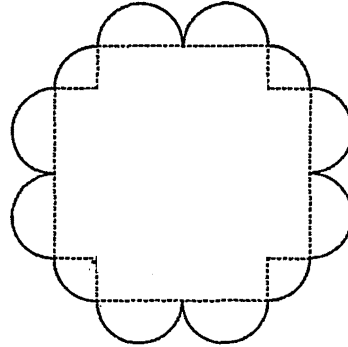
Ans: _____ [3]



- 14 The figure shows a table mat. The outside edge of the mat is formed by 8 semicircles and 4 quarter circles, each of radius 7 cm.

- (a) Find the perimeter of the mat.
(b) Find the area of the mat.

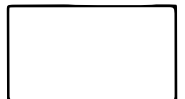
Take $\pi = \frac{22}{7}$.



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Ans: (a) _____ [2]

(b) _____ [3]



- 15** Aini and Usha each had a piece of dough of the same mass for making buns. The same mass of dough was used for each bun. Aini made 40 buns and had 50 g of dough left. Usha made 10 buns and had 1.1 kg of dough left.

- (a) What was the mass of dough needed for each bun?
- (b) With the remaining dough from both girls, how many more such buns can be made at most?

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Ans: (a) _____ [2]

(b) _____ [2]

16



SUNSHINE READER
BOOK SALE!



1st book at 10% discount

2nd book at 20% discount

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Kim and Hao each bought two books at the sale.

- (a) Kim's books were priced at \$8 and \$10. How much did she pay for them?
- (b) Hao paid a total of \$24.80 for his two books. He paid \$4 more for the 1st book than for the 2nd book. What was the price of the 2nd book before discount?

Ans: (a) _____ [2]

(b) _____ [3]



- 17** Yulin wants to make 14 small identical stars and 20 large identical stars using wire. She has made 12 small stars and 7 large ones using 960 cm of wire. The length of wire she used for 3 large stars is the same as that for 4 small stars.

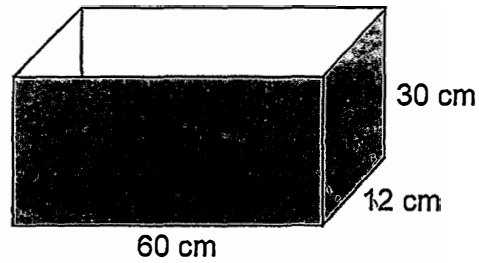
- (a) How many large stars can be made with the same length of wire used to make 12 small stars?
- (b) What is the length of wire she needs to make the remaining stars?

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in this space

Ans: (a) _____ [1]

(b) _____ [4]

- 18 An open rectangular box is shown below.



- (a) The outside of the box including the base is painted. Find the painted area.
- (b) When the box is packed full with 1-cm cubes,
- (i) how many cubes are there?
- (ii) how many cubes touch the inside of the box?

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Ans: (a) _____ [2]

(b)(i) _____ [1]

(b)(ii) _____ [2]



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