

**PAPER 1 Booklet A**

Questions **1** to **10** carry 1 mark each. Questions **11** to **20** carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice and shade your answer (1, 2, 3 or 4) in the Optical Answer Sheet.

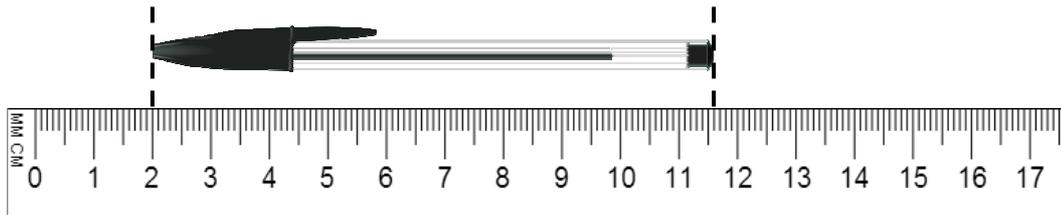
(30 Marks)

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- 1 What is the value of the digit 8 in 34.85?
- (1) 8 tens
  - (2) 8 ones
  - (3) 8 tenths
  - (4) 8 hundredths
- 2 Which one of the following numbers when rounded off to the nearest ten is 5800?
- (1) 5 789
  - (2) 5 795
  - (3) 5 806
  - (4) 5 850
- 3 1000 more than 49 378 is \_\_\_\_\_.
- (1) 48 378
  - (2) 49 478
  - (3) 50 378
  - (4) 59 378

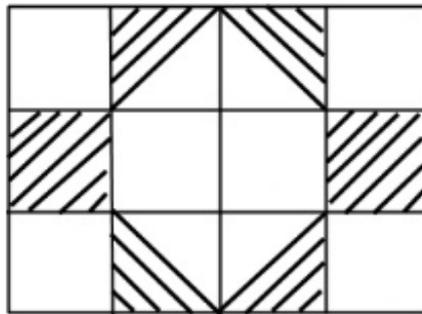
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- 4 Look at the figure below.



What is the length of the ballpoint pen?

- (1) 9.6 cm
  - (2) 10.4 cm
  - (3) 11.6 cm
  - (4) 12.4 cm
- 5 The figure below is made up of unit squares.

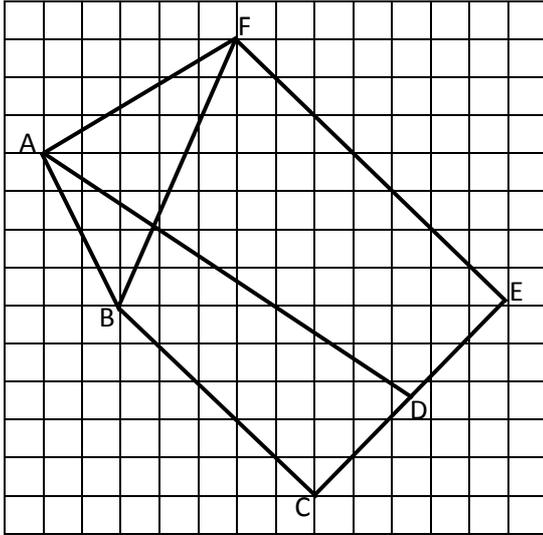


What fraction of the whole figure is shaded?

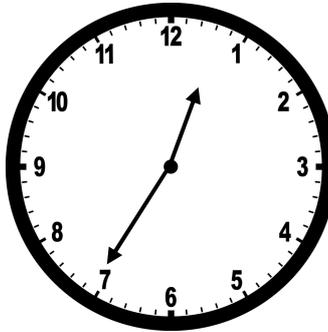
- (1)  $\frac{1}{2}$
- (2)  $\frac{1}{3}$
- (3)  $\frac{2}{3}$
- (4)  $\frac{4}{11}$

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- 6 In the grid below, which line is parallel to BC?



- (1) AD  
 (2) BF  
 (3) CE  
 (4) EF
- 7 The clock below shows the time John's piano lesson ended in the afternoon.



If his piano lesson lasted 45 minutes, what time did it start?

- (1) 11.50 a.m.  
 (2) 12.35 p.m.  
 (3) 1.20 p.m.  
 (4) 11.50 p.m.

(Go on to the next page)

8 The average mass of Haziq and his 3 friends is 48 kg. What is their total mass?

- (1) 12 kg
- (2) 16 kg
- (3) 144 kg
- (4) 192 kg

9 Express  $\frac{14}{25}$  as a percentage.

- (1) 14%
- (2) 25%
- (3) 56%
- (4) 70%

10 A machine can print 2240 brochures in 20 minutes.

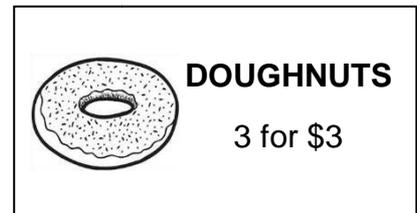
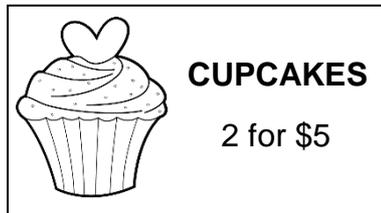
On average, how many brochures can it print in 5 minutes?

- (1) 112
- (2) 448
- (3) 560
- (4) 11 200

11 Mrs Ng bought an equal number of cupcakes and doughnuts from a bakery.

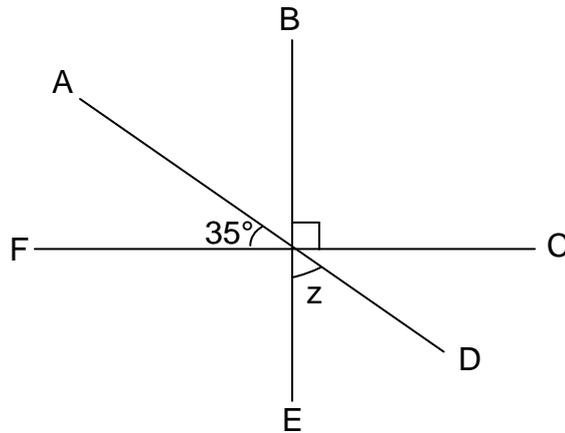
She paid a total of \$63. How many doughnuts did she buy altogether?

- (1) 12
- (2) 18
- (3) 36
- (4) 63



12 In the figure below, not drawn to scale, AD, BE and FC are straight lines.

Find  $\angle z$ .



- (1)  $35^\circ$
- (2)  $55^\circ$
- (3)  $65^\circ$
- (4)  $90^\circ$

13 The table below shows the number of pupils in a class who wear spectacles and those who do not.

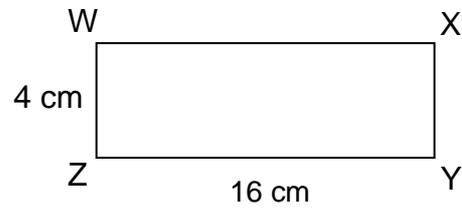
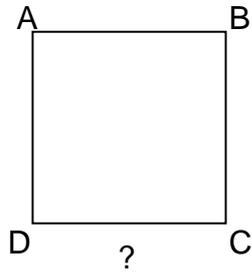
	Number of pupils who wear spectacles	Number of pupils who do not wear spectacles	Total
<b>Boys</b>	14	7	21
<b>Girls</b>	?	8	?

If there are 40 pupils in the class, how many girls **wear** spectacles?

- (1) 8
- (2) 11
- (3) 14
- (4) 19

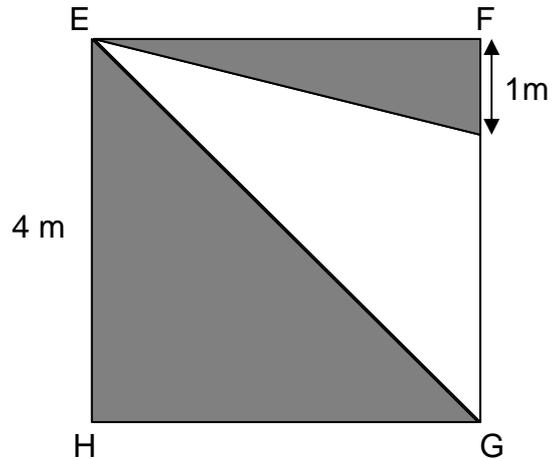
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- 14 The figure below shows a square and a rectangle with the same area.  
What is the length of Square ABCD?



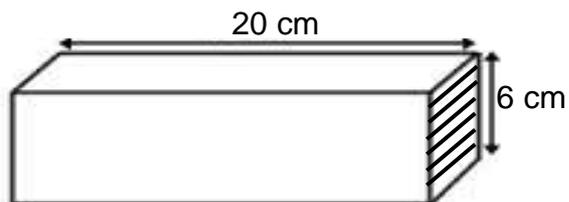
- (1) 8 cm  
(2) 16 cm  
(3) 32 cm  
(4) 64 cm
- 15 The figure below shows a square carpet of side 4 m.  
Find the area of the **unshaded** part.

- (1)  $6 \text{ m}^2$   
(2)  $10 \text{ m}^2$   
(3)  $12 \text{ m}^2$   
(4)  $16 \text{ m}^2$



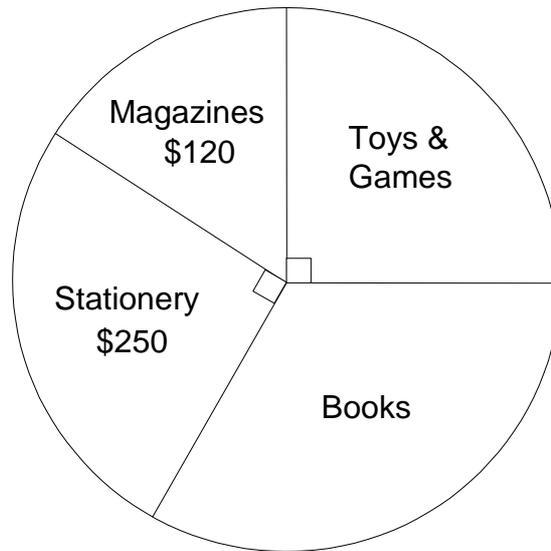
- 16 The figure below shows a cuboid. The shaded face is a square of side 6 cm.  
Find the volume of the cuboid.

- (1)  $120 \text{ cm}^3$   
(2)  $480 \text{ cm}^3$   
(3)  $720 \text{ cm}^3$   
(4)  $2400 \text{ cm}^3$



(Go on to the next page)

The pie chart below shows the amount of money collected by a bookstore in a week. Use it to answer Questions 17 and 18.



- 17 What percentage of the total amount of money collected was from the total sale of stationery, magazines and books?
- (1) 25%
  - (2) 50%
  - (3) 75%
  - (4) 100%
- 18 How much money was collected from the sale of books?
- (1) \$370
  - (2) \$380
  - (3) \$500
  - (4) \$620

(Go on to the next page)

- 19 A jug contained 2ℓ of orange juice. Fiona poured all the juice equally into 8 glasses. How much orange juice was there in each glass?
- (1) 0.25ℓ
  - (2) 16ℓ
  - (3) 250ℓ
  - (4) 4ℓ
- 20 Siti has 87 stamps. She has thrice as many stamps as Weixin. How many stamps do the 2 girls have in all?
- (1) 29
  - (2) 116
  - (3) 261
  - (4) 348

**PAPER 1 Booklet B**

Questions **21** 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. (20 Marks)

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21 Arrange the following numbers in **increasing** order:

$$\frac{8}{3}, \quad \frac{3}{8}, \quad 3\frac{1}{8}, \quad \frac{3}{4}$$

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

22 Find the value of

(a)  $0.07 \times 7$

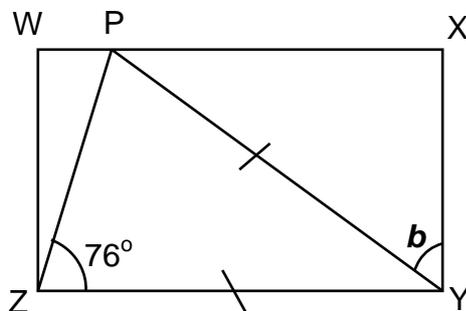
(b)  $76 \div 5$

Give your answers as a fraction in its simplest form.

Ans: (a) \_\_\_\_\_

(b) \_\_\_\_\_

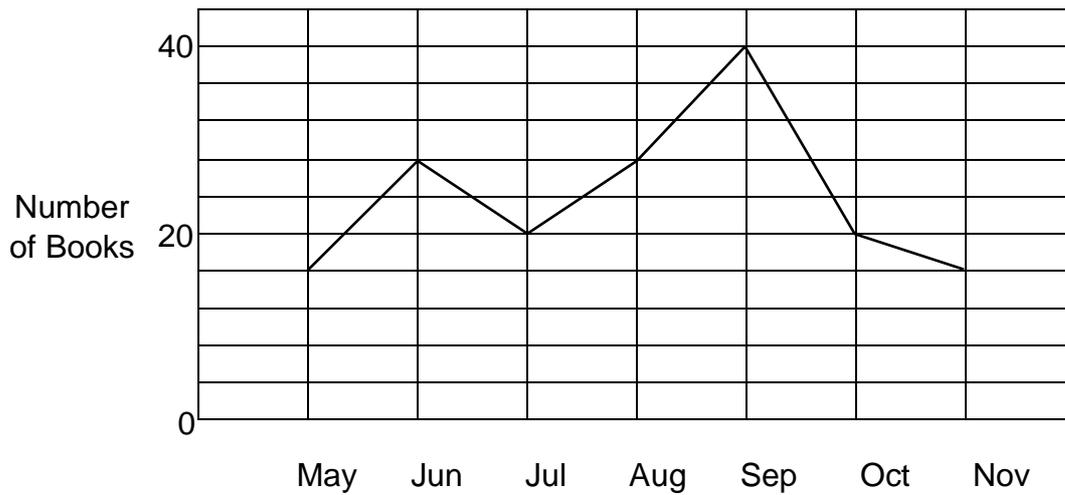
23 WXYZ is a rectangle. If  $YP = YZ$ , find  $\angle b$ .



Ans: \_\_\_\_\_<sup>o</sup>

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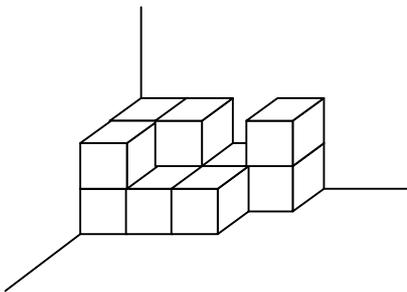
- 24 The graph below shows the number of books read by Kathy over a few months.



What was the total number of books Kathy read from July to October?

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

- 25 The solid below is made up of unit cubes. What is the **least** number of cubes to be added to the solid in order to form a cuboid measuring 5 units by 2 units by 2 units?



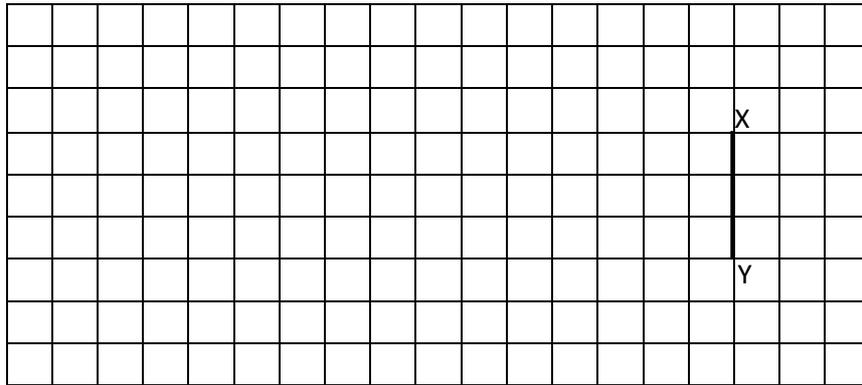
Ans: \_\_\_\_\_

- 26 What is  $\frac{1}{4}$  of 0.58 km? Give your answer in metres.

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

(Go on to the next page)

- 27 In the grid below, draw a triangle XYZ with  $XY = 3$  units and  $XZ = 9$  units.  
 $\angle YXZ$  is  $90^\circ$ . Side XY has already been drawn for you.



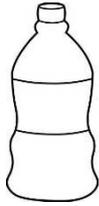
- 28 Soy Goodness is having a special promotion during the Great Singapore Sale (GSS).



**GSS  
Promo**

Usual Price:  
1 bottle of soya milk → \$2

Special Offer:  
Buy 3 bottles of soya milk and buy  
the 4<sup>th</sup> bottle at **HALF PRICE.**



What is the greatest number of bottles of soya milk Hartika can buy with \$30?

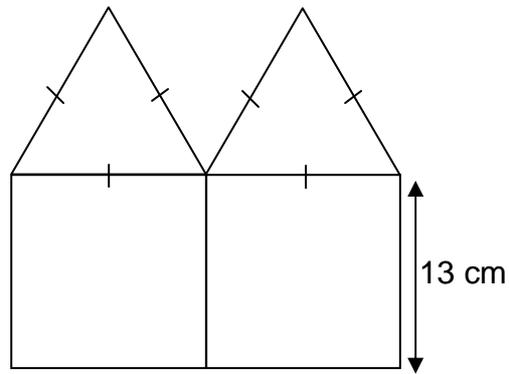
Ans: \_\_\_\_\_

- 29 The sum of the smallest and the greatest factors of a whole number is 28. This number has a total of 4 factors and one of its factors is 3. What is this number?

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

(Go on to the next page)

- 30 The figure below is made up of 2 similar equilateral triangles and 2 squares. Find the perimeter of the figure.



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

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**END OF PAPER 1**

(Go on to Paper 2)

**PAPER 2**

Questions **1** to **10** 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. (20 Marks)

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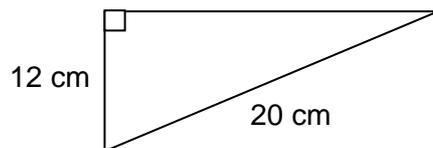
- 1 What is the sum of the first 3 multiples of 7?

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

- 2 Mr Gurmit wanted to distribute \$7000 equally among his 25 workers as a special bonus. How much money would each worker receive?

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

- 3 The perimeter of the right-angled triangle below, not drawn to scale, is 48 cm. Find its area.



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

(Go on to the next page)

- 4 A box is 298 g heavier than 5 similar jugs. The mass of the box is 2.5 kg. What is the mass of each jug in grams?

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

- 5 A cone was placed at the start of a 3-km long path. Thereafter, a cone was placed at every  $\frac{1}{3}$  - km interval till the end of the path. How many cones are placed along the path altogether?



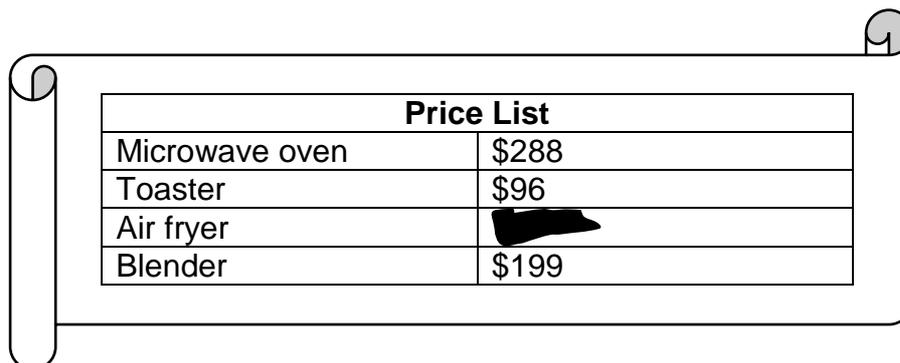
Ans: \_\_\_\_\_

- 6 Juriah had \$3. She spent \$1.35 and gave 75¢ to her brother. What fraction of her money had she left? Give your answer in the simplest form.

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

(Go on to the next page)

- 7 The price list below has been vandalized such that price of the air fryer cannot be seen. The average price of all 4 items is \$214.50. What is the price of the air fryer?



Price List	
Microwave oven	\$288
Toaster	\$96
Air fryer	
Blender	\$199

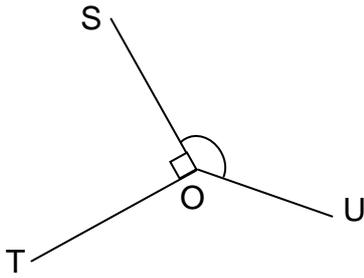
Ans: \$ \_\_\_\_\_

- 8 Lily read  $\frac{5}{7}$  of a storybook last week. She read the remaining 210 pages this week. What was the total number of pages in the storybook?

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

(Go on to the next page)

- 9 In the figure below, not drawn to scale,  $\angle SOU = \angle TOU$ . Find  $\angle SOU$ .



Ans: \_\_\_\_\_<sup>o</sup>

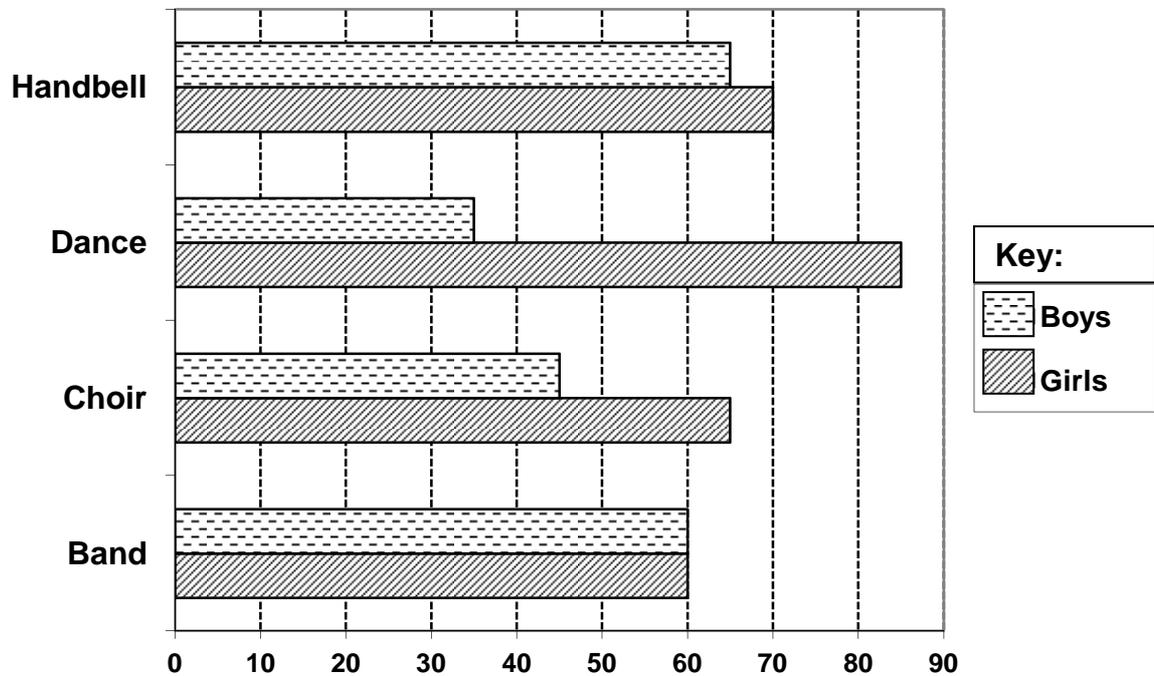
- 10 Last year, Mr Chua's mass was 65 kg. This year, his mass increases by 8%. What is his mass this year?

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

(Go on to the next page)

For questions **11** 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. (30 Marks)

11 The bar graph below shows the number of pupils who join the various CCAs.



- (a) Which CCA is the least popular?
- (b) What is the average number of **girls** who join Band, Choir and Handbell?

Ans: (a) \_\_\_\_\_ (1)

(b) \_\_\_\_\_ (2)

(Go on to the next page)

- 12 A group of 39 volunteers had been given an equal number of eggs to paint for an Easter event. When 1 of them fell sick, his eggs were redistributed among the rest of the volunteers who had to paint 4 more eggs each.
- (a) How many eggs were given to each volunteer at first?
- (b) How many eggs did they have to paint altogether?

Ans: (a) \_\_\_\_\_ (1)

(b) \_\_\_\_\_ (2)

- 13 Mr Chandra bought a mobile phone during the sale.



Usual Price: **\$1060**  
Discount: **15% off** usual price

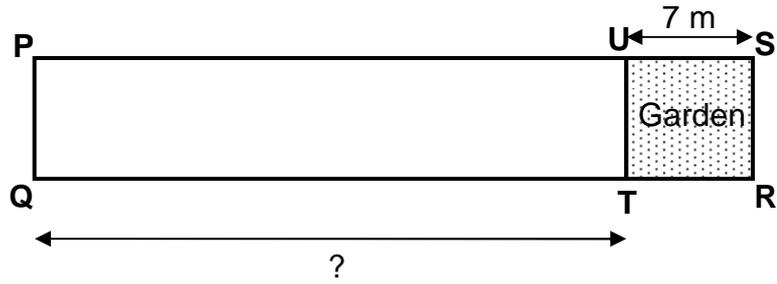
- (a) How much was the discount given?
- (b) 7% GST was charged on the discounted price. How much did he pay for the phone after adding GST?

Ans: (a) \_\_\_\_\_ (1)

(b) \_\_\_\_\_ (2)

(Go on to the next page)

- 14 The diagram below shows a rectangular field PQRS. A square of side 7 m is then made into a garden. The area of the remaining field PQTU is  $273 \text{ m}^2$ .



- (a) What is the length of QT?  
(b) What is the area of the rectangular field PQRS?

Ans: (a) \_\_\_\_\_ (1)

(b) \_\_\_\_\_ (2)

(Go on to the next page)

- 15 Shaun wanted to buy 21 mangoes. He compared the prices of 2 different fruit stalls.

<p style="text-align: center;"><b><u>Stall A</u></b></p> <p style="text-align: center;">1 for \$2.30</p> <p style="text-align: center;">Buy 3 and enjoy a discount of \$0.15 per mango</p>
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<p style="text-align: center;"><b><u>Stall B</u></b></p> <p style="text-align: center;">1 for \$3.20</p> <p style="text-align: center;">Buy 2 and get 1 free</p>
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- (a) How much would Shaun spend in all if he bought the mangoes only from Stall A?
- (b) How much would he save altogether if he bought the mangoes from Stall B instead of Stall A?

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

(b) \_\_\_\_\_ (2)

(Go on to the next page)

16 Mrs Ho bought some stickers. She gave  $\frac{4}{5}$  of the stickers to her students. She shared  $\frac{1}{3}$  of the remaining stickers equally among her 3 friends and had 246 stickers left.

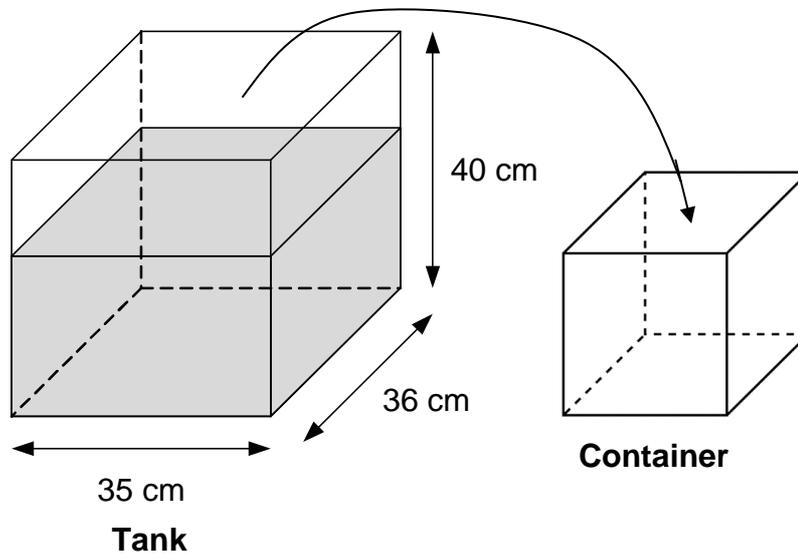
- (a) How many stickers did each friend get?
- (b) How many stickers did Mrs Ho buy altogether?

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

(b) \_\_\_\_\_ (2)

(Go on to the next page)

- 17 In the figure below, a rectangular tank, 35 cm long, 36 cm wide and 40 cm high, was  $\frac{3}{4}$  filled with water. Ken poured some water from the tank to fill an empty cubical container of side 20 cm completely.



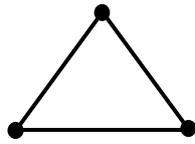
- (a) What was the volume of water in the rectangular tank at first?
- (b) How much water was left in the tank after the container was filled completely? Express your answer in litres and millilitres.

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

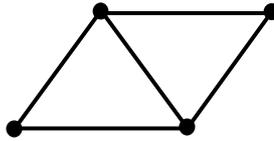
(b) \_\_\_\_\_ (3)

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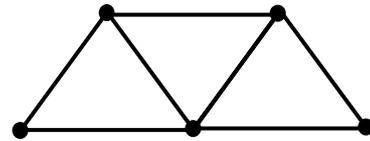
- 18 The following figures show triangles which are drawn using dots and lines. The length of each side of the triangle is 4 cm.



Pattern 1



Pattern 2



Pattern 3

Pattern	Number of dots	Perimeter
1	3	12 cm
2	4	16 cm
3	5	20 cm
4	6	(a)(i) _____
...	...	...
7	(a)(ii) _____	36 cm

- (a) Complete the table above for Pattern 4 and Pattern 7. (2)
- (b) Which pattern has 15 dots?
- (c) Which pattern has a perimeter of 72 cm?

Ans: (b) \_\_\_\_\_ (1)

(c) \_\_\_\_\_ (2)