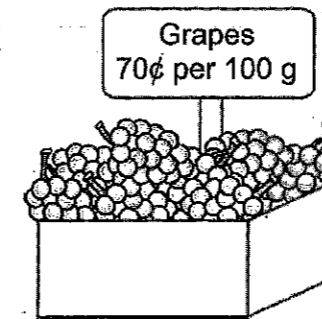


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Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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- 1 Zaleha bought 1.2 kg of grapes. How much did she pay?



Ans: \$ _____

- 2 Malek paid \$945 for a table and 4 chairs. The price of a chair was $\frac{2}{7}$ of the price of the table. How much did Malek pay for the table?

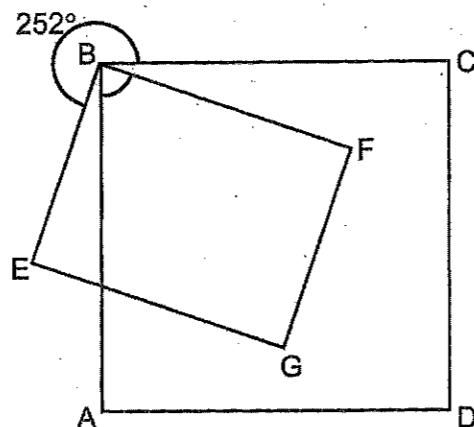
Ans: \$ _____

- 3 Rei bought 150 oranges and 100 apples for her neighbours. She divided the oranges equally among them and had 17 oranges left. She also divided the apples equally among them and had 5 apples left. How many neighbours were there?

Ans: _____

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- 4 In the figure, ABCD is a square, EBFG is a rectangle and $\angle EBC = 252^\circ$. Find $\angle ABF$.



Ans: _____

- 5 A player has to play a total of four games in Round 1 of a competition. The scores for Chong's first three games are shown below.

Round 1	
Game	Score
1 st	23
2 nd	21
3 rd	24
4 th	

Chong will qualify for Round 2 if his average score for three of the four games is 25 or more. What is the lowest score Chong must get in the 4th game to qualify for Round 2?

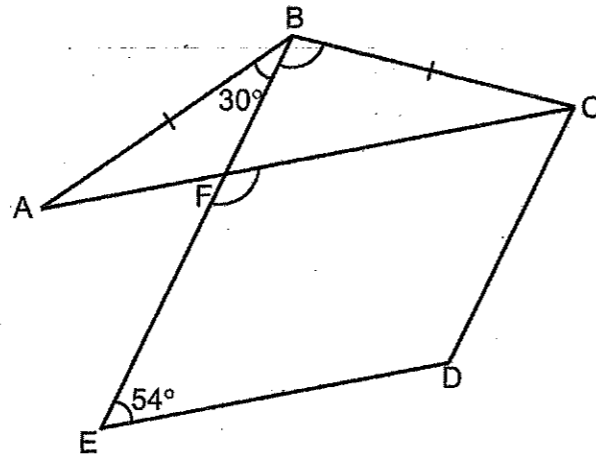
Ans: _____

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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)

6 In the figure, CDEF is a parallelogram. AFC and BFE are straight lines and $BA = BC$. $\angle ABF = 30^\circ$ and $\angle DEF = 54^\circ$.

- (a) Find $\angle EFC$.
- (b) Find $\angle FBC$.



Ans: (a) _____ [1]
 (b) _____ [2]

7 At first, Ben had \$90 and Chandra had \$48. Each bought a shirt at the same price. The amounts of money Ben and Chandra had left were in the ratio 4 : 1. How much did the shirt cost?

Ans: _____ [3]

8 Liming had a piece of wire $13w$ cm long. He formed a triangle, with sides measuring w cm, $3w$ cm and 20 cm, with part of the wire.

- (a) Express the length of the remaining wire in terms of w in the simplest form.
- (b) Liming used the remaining wire to form a rectangle of length $2w$ cm. If $w = 6$, what was the breadth of the rectangle?

Ans: (a) _____ [1]
 (b) _____ [2]

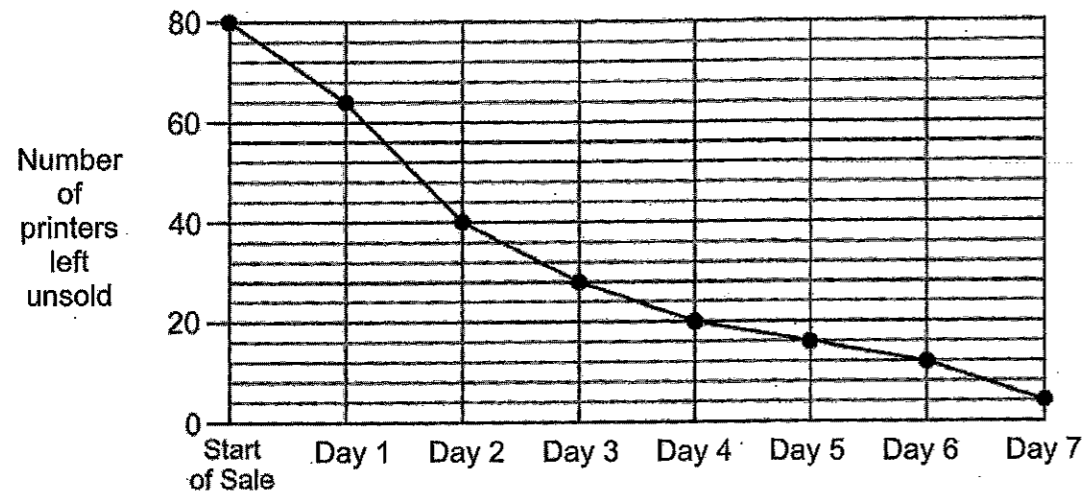
9 At a concert, 55% of the tickets were sold at full price and 40% of the tickets at half price. The remaining 20 tickets were given away free. The total amount of money collected was \$7200. What was the full price of a ticket?

Ans: _____ [3]

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- 10 A company offered 80 printers at a 25% discount during a 7-day sale. The line graph shows the number of printers left unsold at the end of each day.



- (a) On which day was the most number of printers sold?
- (b) What percentage of the 80 printers were sold in the first three days of the sale?
- (c) During the sale, the discounted price of the printers was \$120. After the sale, the remaining printers were sold without discount. What was the total amount of money collected from selling all 80 printers?

Ans: (a) _____ [1]
 (b) _____ [1]
 (c) _____ [3]

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- 11 In a school, 70% of the members in the Band and 60% of the members in the Choir are girls. Both the Band and the Choir have the same number of boys. The Band has 20 more girls than the Choir. How many members are there in the Band?

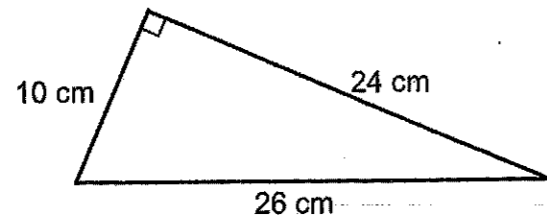
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Ans: _____ [3]

- 12 At 11 50, Kiran started cycling at 25 km/h from her home to a park, 10 km away. She was at the park for 1 h 50 min.
- (a) What time did she leave the park?
- (b) After leaving the park, Kiran cycled back along the same route and took 40 min to reach home. What was her average speed, in km/h, for the journey home?

Ans: (a) _____ [2]
 (b) _____ [2]

- 13 The figure shows a right-angled triangle.



- (a) Find the area of the triangle.
- (b) Dinesh wants to cut such triangles from a rectangular piece of cardboard 60 cm by 100 cm. At most, how many of such triangles can he cut?

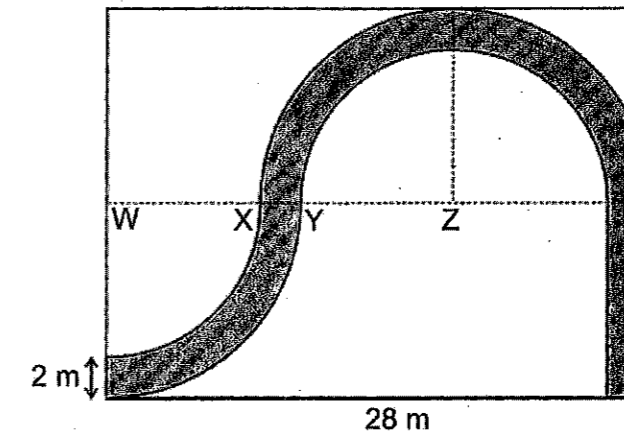
Ans: (a) _____ [1]

(b) _____ [3]

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- 14 The figure shows a path of width 2 m in a rectangular garden of length 28 m. The outline of the path is made up of quarter circles with centre W, semicircles with centre Z and straight lines. $WX = YZ$.

- (a) What is the width of the rectangular garden?
- (b) Find the area of the path. Take $\pi = 3.14$.

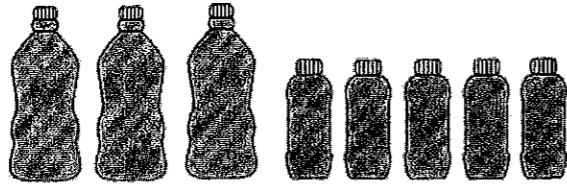


Ans: (a) _____ [1]

(b) _____ [3]

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- 15 Yan filled two types of bottles, large and small, with the drink she made. She filled 3 large bottles and 5 small bottles with 7.2 ℓ of the drink.



She could not fill another large bottle with the remaining drink as she was short of 0.5 ℓ. Instead, she filled another small bottle and had 0.3 ℓ of the drink left.

- (a) How many more litres of drink did each large bottle hold than each small bottle?
- (b) How many litres of drink did Yan make?

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Ans: (a) _____ [1]

(b) _____ [3]

- 16 Peiyi and Jamal bought potted plants at the prices shown below.

Large potted plants	Small potted plants
2 for \$15	3 for \$10

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- (a) Peiyi bought an equal number of large and small potted plants. She spent \$175 **more** on the large ones. How many potted plants did she buy altogether?
- (b) Jamal spent an equal amount of money on the large and small potted plants. What fraction of the potted plants he bought were large?

Ans: (a) _____ [3]

(b) _____ [2]

17 Three girls Amy, Beth and Cindy had the same number of coins. Amy and Beth each had a mix of fifty-cent and ten-cent coins. Amy had 9 ten-cent coins while Beth had 15 ten-cent coins. Cindy had only fifty-cent coins.

- (a) Of the three girls, who had the most money and who had the least?
- (b) What was the difference in the total value of Amy and Beth's coins?
- (c) Beth used all her fifty-cent coins to buy some food. She then had \$10 less in coins than Cindy. How many fifty-cent coins did Cindy have?

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Ans: (a) Most _____

Least _____ [1]

(b) _____ [2]

(c) _____ [2]

18 Ishak uses rods to form figures that follow a pattern. The first four figures are shown below.



Figure 1



Figure 2



Figure 3



Figure 4

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- (a) The table below shows the number of rods used for each figure. Complete the table for Figure 5 and Figure 6.

Figure Number	Number of rods used
1	10
2	15
3	18
4	23
5	
6	

[1]

- (b) What is the difference in the number of rods Ishak would use for Figure 9 and Figure 11?
- (c) How many rods would he use for Figure 30?

Ans: (b) _____ [1]

(c) _____ [2]

End of Paper