

GUYANA DEFENCE FORCE

ACADEMIC EDUCATION PROGRAMME

MATHEMATICS

LEVEL 1 PROMOTIONAL EXAMINATION

Instruction: Use the blank sheets provided to do any calculation. The use of the calculator is permitted.

ANSWER ALL QUESTIONS

Select the **letter** which is next to your choice.

One mark for each correct answer.

1) 36 is the lowest common multiple of:-

a. 6, 12, and 18

b. 4, 8, and 12

c. 2, 3, and 5

d. 9, 12, and 14

2) Six thousand and forty-one in numerals is----.-

- a. 641
- b. 600041
- c. 6041
- d. 60041

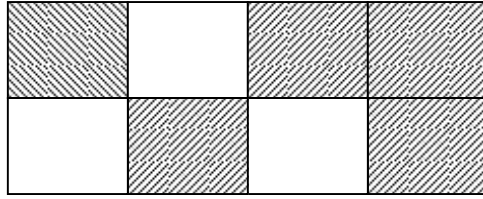
3) $8 + 3 \times 7 - 5$

- a. 72
- b. 14
- c. 24
- d. 22

4) If Set A = {1,2,3,4,5,6} and Set B = {3,4,5} we can say that –

- a. set A and set B are equivalent
- b. set A and set B are unequal
- c. set A and set B are empty sets
- d. set A intersects Set B

5)



In the diagram above the sum of the shaded areas is

- a. $\frac{5}{8}$
- b. $\frac{5}{7}$
- c. $\frac{4}{8}$
- d. $\frac{1}{2}$

6) The formula $A = \frac{1}{2} h (a + b)$ is used to find

- a. Area of a parallelogram
- b. Area of a cube
- c. Area of a trapezium
- d. Area of a prism

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7) 2.5 metres is equal to ___ centimetres

- a. 25000
- b. 250
- c. 2500
- d. 25

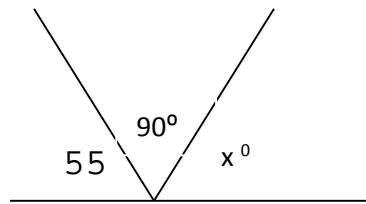
8) Grams in the Metric System is used to measure

- a. mass
- b. solid
- c. air
- d. liquid

9) The exchange rate of \$ B'dos to \$US is \$ B'dos 2 to \$ US 1.00. If a tourist changes US\$500 for \$B'dos, how much dollars will she get?

- a. 10,000
- b. 100
- c. 1000
- d. 100,000

10)



In the above diagram (Fig 2) the angle marked x° is equal to

- a. 15°
- b. 25°
- c. 35°
- d. 45°

11) In **Statistics** another word for the middle value is-----.

- a. mode
- b. median
- c. mean
- d. modal

12) A man bought a cow for \$6,000, and then sold it for \$5,480. What was his percentage loss on the transaction?

- a. 8 %
- b. 8.67 %
- c. 80 %
- d. 0.87 %

13) The symbol used to indicate the union of two Sets is-----.

- a. U
- b. \subset
- c. \cup
- d. \in

14) The exact value of 4^3 is -----.

- a. 64
- b. 32
- c. 12
- d. 8

15) In the Set of ordered pairs (2,4),(3,6), (4,8), and (5,10), the **Range** is ----.

- a. (4,6,8,10)
- b. (2,3,4,5)
- c. (4,3,8,5)
- d. (2,6,4,5)

16) $2a^2 \times 3a^3 \times a =$

- a. $6a^5$
- b. $6a^6$
- c. $5a^5$)
- d. $36a$

17. On the face of a clock, the long hand is at 8 and the short hand is at 12.

What is the sector angle between the two hands of the clock?

- a. 240°
- b. 120°
- c. 100°
- d. 20°

18) The fraction $\frac{5}{8}$ written as a decimal is. -----.

- a. 625
- b. 6.25
- c. 62.5
- d. 0.625

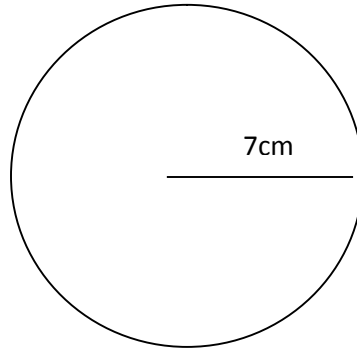
19) A heptagon has _____ sides.

- a. 10
- b. 9
- c. 8
- d. 7

20) 0.15 when written as a percentage is-----.

- a. 150 %
- b. 0.15%
- c. 15%
- d. 1.5%

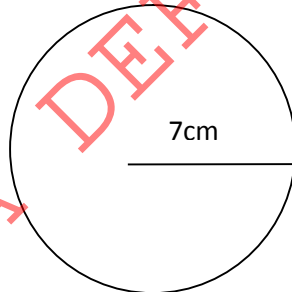
21)



Given the radius of the circle as 7 cm (Fig 3), what is the diameter?

- a. 28 cm
- b. 14 cm
- c. 21 cm
- d. 35 cm

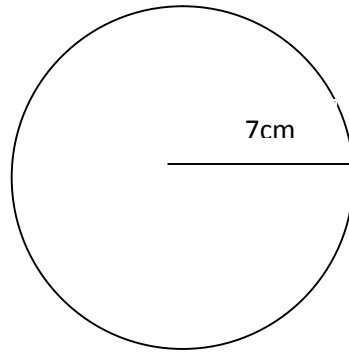
22)



What is the circumference of the circle above?

- a. 65.243 cm
- b. 21.433 cm
- c. 43.988 cm
- d. 37.704 cm

23)



What is the area of the circle above?

- a. 187.35 cm^2
- b. 153.96 cm^2
- c. 172.34^2
- d. 126.52^2

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24)

Days of the Week	Number of soldiers absent
Monday	2
Tuesday	5
Wednesday	8
Thursday	6
Friday	6
Saturday	3
Sunday	4

The table above shows the number of soldiers absent each day of one week.

What is the total number of soldiers absent for the week?

- a. 52
- b. 44
- c. 34
- d. 61

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25)

Days of the Week	Number of soldiers
Monday	2
Tuesday	5
Wednesday	8
Thursday	6
Friday	6
Saturday	3
Sunday	4

The table above shows the number of soldiers absent each day of one week.

What is the average number of soldiers absent daily?

- a. 5
- b. 9
- c. 7
- d. 11

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26)

Days of the Week	Number of soldiers
Monday	2
Tuesday	5
Wednesday	8
Thursday	6
Friday	6
Saturday	3
Sunday	4

The table above shows the number of soldiers absent each day of one week.

On which day was the least number of soldiers absent?

- a. Saturday
- b. Monday
- c. Wednesday
- d. Friday

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27)

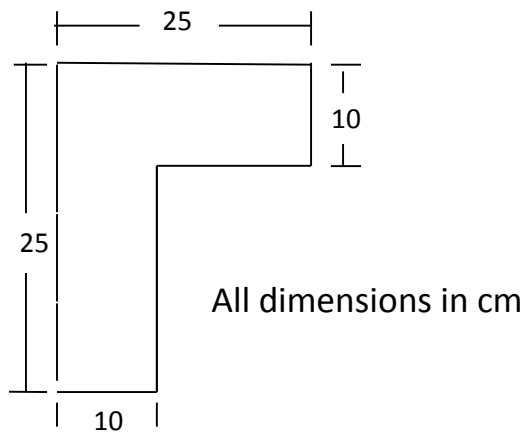
Days of the Week	Number of soldiers
Monday	2
Tuesday	5
Wednesday	8
Thursday	6
Friday	6
Saturday	3
Sunday	4

On which day was the highest number of soldiers absent?

- a. Wednesday
- b. Monday
- c. Thursday
- d. Tuesday

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28)

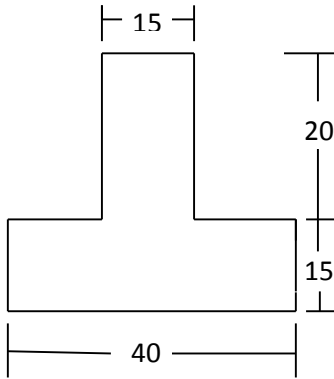


What is the area of the diagram above?

- a. 250 cm^2
- b. 175 cm^2
- c. 150 cm^2
- d. 400 cm^2

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29.



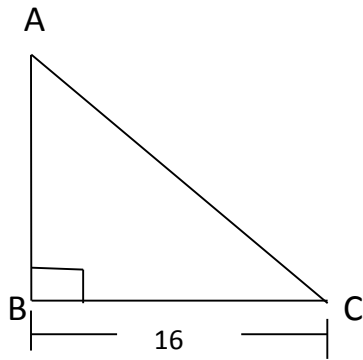
All dimensions in cm

What is the area of the diagram above?

- a. 300 cm^2
- b. 975 cm^2
- c. 600 cm^2
- d. 700 cm^2

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30)



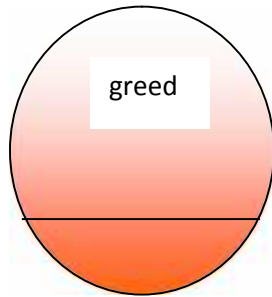
ABC is a right - angled triangle with $AB = 20$ cm and the $BC = 16$ cm. Find the length AC.

- a. 25.61 cm
- b. 256.1 cm
- c. 25.61 cm^2
- d. 256.1 cm

31) The symbol used to indicate the **Universal Set** is-----.

- a. U
- b. \subset
- c. \cup
- d. \in

32) On the chart below the part marked “ greed” is called



- a. sector
- b. major segment
- c. slice
- d. minor segment

33) $\frac{1}{2} \times \frac{2}{3}$

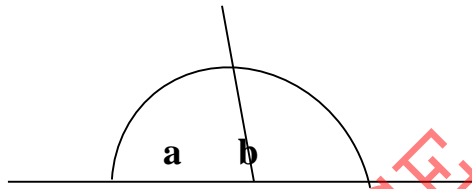
- a. $\frac{1}{3}$
- b. $\frac{3}{6}$
- c. $\frac{1}{6}$
- d. $\frac{3}{5}$

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34) A pair of shoes is priced at \$12,000 and attracts a 16% VAT. What is the cost of the pair of shoes?

- a. \$10,080
- b. \$1920
- c. \$13.20
- d. \$13,920

35)



In the above diagram the angles marked **a** and **b** are ---- angles

- a. supplementary
- b. complementary
- c. equal
- d. reflex

36) Six thousand, seven hundred and forty-one in numerals is:-----.

- a. 600741
- b. 60741
- c. 6741
- d. 607041

37) The formula $A = \frac{1}{2}bh$ is used to find

- a. Area of a parallelogram
- b. Area of a cube
- c. Area of a trapezium
- d. Area of a triangle

38) 250 centimetres is equal to ___ metres

- a. 25.0
- b. 2.50
- c. 0.25
- d. 25

39) litres in the Metric System is used to measure

- a. mass
- b. solid
- c. air
- d. liquid

40) The exchange rate of \$ Can to \$GUY is \$Can 1 to \$GUY 190. If a tourist changes CAN\$500 for \$GUY, how much dollars will she get?

- a. \$9,500
- b. \$950
- c. \$95,000
- d. 100,000

41) In **Statistics** another word for **average** is -----.

- a. mode
- b. median
- c. mean
- d. modal

42) A man bought a cow for \$6,000, and then sold it for \$7,480. What was his percentage gain on the transaction?

- a. 2.47 %
- b. 24.7%
- c. 25 %
- d. 0.25 %

43) The exact value of 8^3 is ----.

- a. 0,512
- b. 51.2
- c. 5.12
- d. 512

44) In the Set of ordered pairs (2,4),(3,6), (4,8), and (5,10), the **DOMAIN** is ---.

- a. (4,6,8,10)
- b. (2,3,4,5)
- c. (4,3,8,5)
- d. (2,6,4,5)

45) $2a^3 \times 3a^3 \times a^2 =$

- a. $6a^6$
- b. $6a^8$
- c. $5a^8$
- d. $36a$

46) On the face of a clock, the long hand is at 8 and the short hand is at 12.

What is the value of the **reflex angle** formed by the two hands of the clock?

- a. 240°
- b. 120°
- c. 100
- d. 20°

47) The decimal 0.625 written as a fraction is-----.

- a. $5/6$
- b. $6/5$
- c. $8/5$
- d. $5/8$

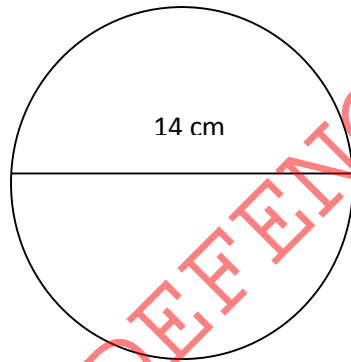
48) A hexagon has _____ sides.

- a. 6
- b. 9
- c. 8
- d. 7

49) 0.65 when written as a percentage is ---.

- a. 650
- b. 0.65
- c. 65
- d. 6.5

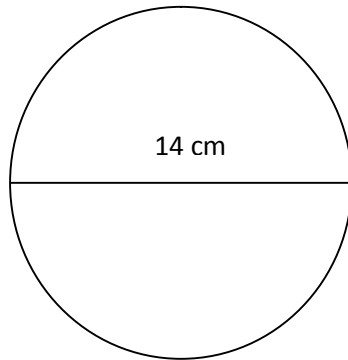
50)



Given the diameter of the circle as 14 cm. what is the radius of the circle?

- a. 7 cm
- b. 7 cm²
- c. 1.4 cm
- d. 1.4 cm²

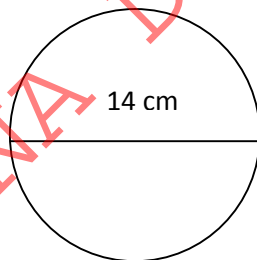
51)



What is the circumference of the circle to the closest whole number?

- a. 44 cm^2
- b. 43 cm
- c. 44 cm
- d. 43 cm^2

52)



What is the area of the circle to the closest whole number?

- a. 615 cm
- b. 154 cm^2
- c. 615 cm^2
- d. 154 cm

53)

Days of the Week	Number of eggs collected
Monday	12
Tuesday	15
Wednesday	08
Thursday	26
Friday	06
Saturday	13
Sunday	14

The table above shows the number of eggs collected each day for one week by a farmer.

What is the total number of eggs collected for the week?

- a. 52
- b. 94
- c. 84
- d. 64

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54)

Days of the Week	Number of eggs collected
Monday	12
Tuesday	15
Wednesday	08
Thursday	26
Friday	06
Saturday	13
Sunday	14

The table above shows the number of eggs collected each day for one week by a farmer.

What is the average number of eggs collected daily?

- a. 13.4
- b. 13
- c. 13.04
- d. 1.34

GUYANA DEFENCE FORCE

55)

Days of the Week	Number of eggs collected
Monday	12
Tuesday	15
Wednesday	08
Thursday	26
Friday	06
Saturday	13
Sunday	14

The table above shows the number of eggs collected each day for one week by a farmer.

On which day was the least number of eggs collected?

- a. Saturday
- b. Monday
- c. Wednesday
- d. Friday

56)

Days of the Week	Number of eggs collected
Monday	12
Tuesday	15
Wednesday	08
Thursday	26
Friday	06
Saturday	13
Sunday	14

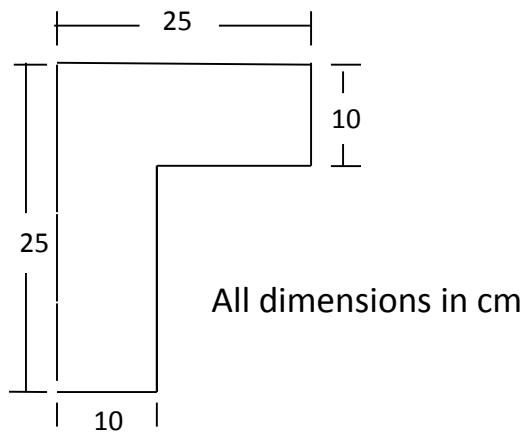
The table above shows the number of eggs collected each day for one week by a farmer.

On which day was the highest number of eggs collected?

- a. Wednesday
- b. Monday
- c. Thursday
- d. Tuesday

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57)

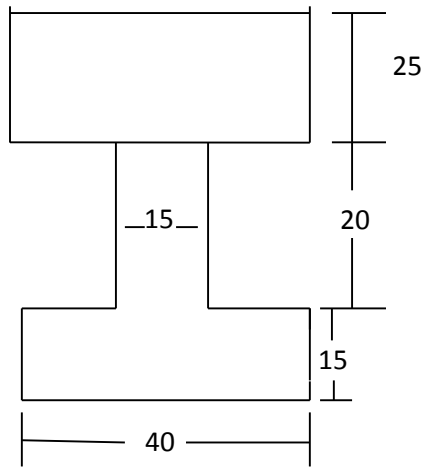


Find the **perimeter** of the diagram above

- a. 250 cm
- b. 100 cm^2
- c. 250 cm^2
- d. 100 cm

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58)



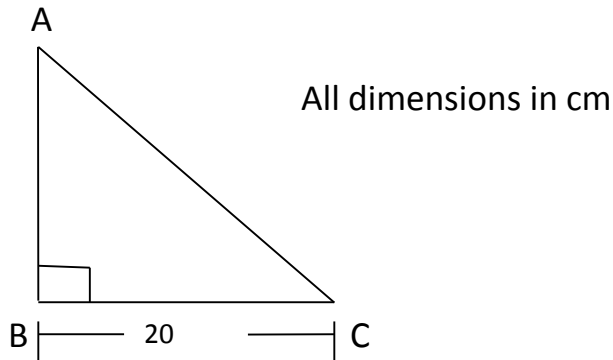
All dimensions in cm

Find the **area** of the above diagram .

- a. 1900 cm
- b. 2300 cm²
- c. 1900 cm²
- d. 2300 cm

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59)



ABC is a right - angled triangle with area 100 cm^2 and the base 20 cm . Find the height AB.

- a. 12 cm
- b. 15 cm
- c. 10 cm
- d. 14 cm

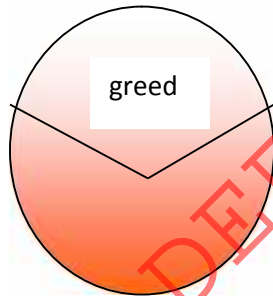
60) Joan bought $\frac{4}{5}$ kilograms of sweets and divides it equally among 6 children. How many kilograms of sweets does each child will receive?

- a. $\frac{2}{15}$ kg
- b. $\frac{5}{11}$ kg
- c. $\frac{5}{30}$ kg
- d. $\frac{24}{5}$ kg

61) The symbol used to indicate the **Subset** is-----.

- a. U
- b. \subset
- c.
- d. €

62) On the chart below the part marked “greed” is called



- a. sector
- b. major segment
- c. slice
- d. minor segment

63) $\frac{1}{2} \times \frac{2}{3} + \frac{1}{4}$

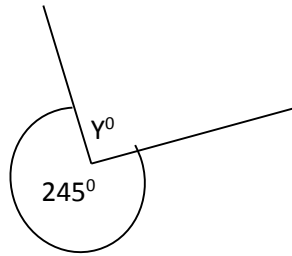
- a. $\frac{7}{12}$
- b. $\frac{11}{24}$
- c. $\frac{12}{7}$
- d. $\frac{24}{11}$

64) A pair of shoes cost \$12,000 (16% VAT included). What is the price for the pair of shoes?

- a. \$10,080
- b. \$1920
- c. \$13.20
- d. \$13,920

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65)



In the diagram above the angles marked $Y^\circ =$

- a. 115°
- b. 90°
- c. 45°
- d. 75°

66) One hundred and Six thousand, seven hundred and forty-one in numerals is--.

- a. 1006741
- b. 160741
- c. 106741
- d. 1067041

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67) The formula $A = \frac{1}{2}(a + b)h$ is used to find the --

- a. Area of a parallelogram
- b. Area of a cube
- c. Area of a trapezium
- d. Area of a triangle

68) 250 grams is equal to --- centigram

- a. 25.0
- b. 2.50
- c. 0.25
- d. 25

69) Grams in the Metric System is used to measure

- a. mass
- b. solid
- c. air
- d. liquid

70) The exchange rate of \$US to \$GUY is \$US 1 to \$GUY 198. If a tourist
Change US\$700 for \$GUY, how much dollars will she get?

- a. \$13,860
- b. \$138.600
- c. \$138,600
- d. \$13.860

71) In **Statistics** another word for the numerical value in the **middle** of a set of
given number is the-----.

- a. mode
- b. median
- c. mean
- d. medium

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72) A car dealer bought a car for \$16,000, and then sold it for \$15,480. What was his percentage **loss** on the transaction?

- a. 32.5 %
- b. 2.25%
- c. 3.25 %
- d. 0.325 %

73) The exact value of 6^3 is-----.

- a. 62
- b. 162
- c. 21.6
- d. 216

74) In the Set of ordered pairs (2,4),(3,6), (4,8), and (5,10), the **Range** is -----.

- a. (4,6,8,10)
- b. (2,3,4,5)
- c. (4,3,8,5)
- d. (2,6,4,5)

75) $4b^2 \times 2b^3 \times 3b^2 =$

- a. $24b^{12}$
- b. $24b^7$
- c. $24b^8$
- d. $24b$

76) On the face of a clock, the long hand is at 5 and the short hand is at 12.

What is the value of the **reflex angle** formed by the two hands of the clock?

- a. 210°
- b. 120°
- c. 150°
- d. 240°

77) The fraction $\frac{5}{8}$ written as a decimal is-----

- a. 625
- b. 6.25
- c. 62.5
- d. 0.625

78) A octagon has _____ sides.

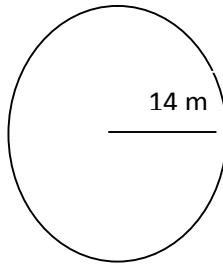
- a. 6
- b. 9
- c. 8
- d. 7

79) 0.45 when written as a percentage is-----.

- a. 450 %
- b. 0.45%
- c. 45%
- d. 4.5%

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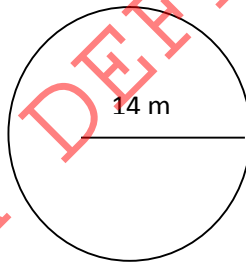
80)



Given the radius of the circle as 14m. what is the diameter of the circle?

- a. 28 m
- b. 14 m
- c. 21 m
- d. 35 m

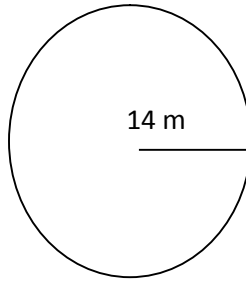
81)



What is the circumference of the circle above ?

- a. 43.96 cm
- b. 21.43 cm
- c. 87.92 cm
- d. 37.70 cm

82)



What is the area of the circle ?

- a. 61.54 m^2
- b. 615.4 m^2
- c. 61.54 m
- d. 615.4 m

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83)

Days of the Week	Number of flights
Monday	09
Tuesday	11
Wednesday	08
Thursday	06
Friday	12
Saturday	16
Sunday	24

The table above shows the number of flights departing the Cheddi Jagan International Airport Timheri each day for one week.

What is the total number of flights that departed the airport for the week?

- a. 52
- b. 94
- c. 86
- d. 64

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84)

Days of the Week	Number of flights
Monday	09
Tuesday	11
Wednesday	08
Thursday	06
Friday	12
Saturday	16
Sunday	24

The table above shows the number of flights departing the Cheddi Jagan International Airport Timheri each day for one week.

What is the average number of flights per day?

- a. 13.4
- b. 12.3
- c. 13
- d. 1.34

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85)

Days of the Week	Number of flights
Monday	09
Tuesday	11
Wednesday	08
Thursday	06
Friday	12
Saturday	16
Sunday	24

The table above shows the number of flights departing the Cheddi Jagan International Airport Timheri each day for one week. On which day was the least number of flights departed?

- a. Thursday
- b. Monday
- c. Wednesday
- d. Friday

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86)

Days of the Week	Number of flights
Monday	09
Tuesday	11
Wednesday	08
Thursday	06
Friday	12
Saturday	16
Sunday	24

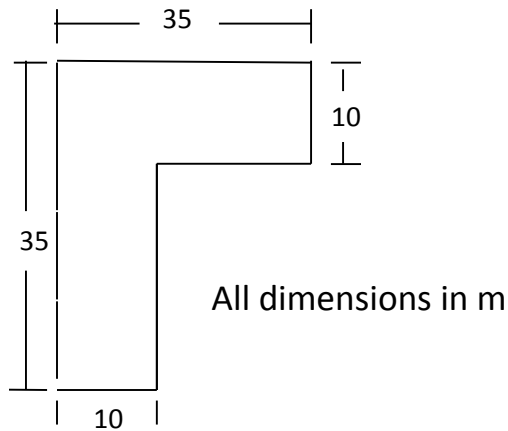
The table above shows the number of flights departing the Cheddi Jagan International Airport Timheri each day for one week.

On which day was the **most** number of flights departed?

- a. Friday
- b. Saturday
- c. Sunday
- d. Tuesday

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87)

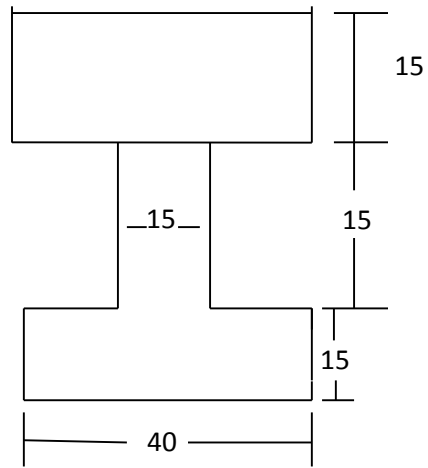


Find the **perimeter** of the diagram above

- a. 1225 m
- b. 140 m²
- c. 1225 m²
- d. 140 m

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88)



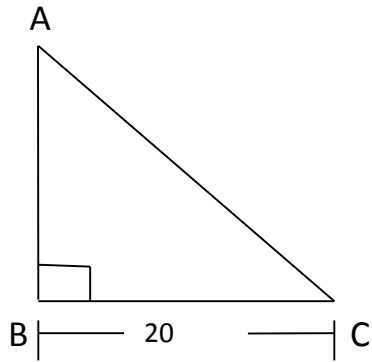
All dimensions in mm

Find the **area** of the diagram above.

- a. 1800 mm^2
- b. 1425 mm^2
- c. 1800 mm
- d. 1425 mm

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89)

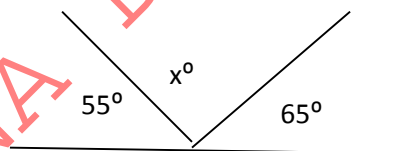


All dimensions in cm

ABC is a right - angled triangle with a base BC = 20cm and a height AB = 30 cm .
Find the area of Triangle ABC.

- a. 300 cm
- b. 300 cm
- c. 600 cm²
- d. 600 cm

90)



In the diagram above the angle marked x° is equal to

- a. 75°
- b. 120°
- c. 60°
- d. 45°

91) Given that Set A = {1,2,3,4} and Set B = {6,7,8} we can say that

- a. set A and set B are equivalent
- b. set A and set B are unequal
- c. set A and set B are disjointed
- d. set A intersects Set B

92) What is the **place value** of the zero (0) in the number 6045

- a. hundred
- b. ten
- c. thousand
- d. singles

93) In the given set of numbers (9.10.11.12.13.14.15.16.17), the set of **composite numbers** are

- a. (10,13,17)
- b. (9,10,11,14)
- c. (9,10,12,14,16)
- d. (11,12,13,17)

94) $8 + 3 \times 6 - 5$

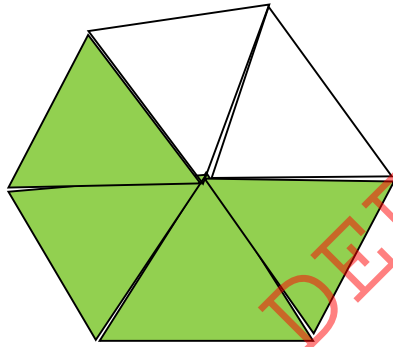
a. 61

b. 11

c. 21

d. 12

95)



In the diagram above the sum of the shaded areas (in its lowest term) is-----.

a. $\frac{4}{6}$

b. $\frac{4}{5}$

c. $\frac{2}{3}$

d. $\frac{3}{4}$

96) The formula $V = l^3$ is used to find

- a. Volume of a cylinder
- b. Volume of a cube
- c. Volume of a pyramid
- d. Volume of a prism

97) 2.5 kilometres is equal to ___ metres.

- a. 25000
- b. 250
- c. 2500
- d. 25

98) Three (3) litres is equivalent to --- millilitres

- a. 300
- b. 3000
- c. 30
- d. 3.0

99) At a certain Cambio \$US is sold at \$ Guy 205 to \$ US 1.00. If a tourist changes \$Guy15000 for \$US, how much US dollars will she get?

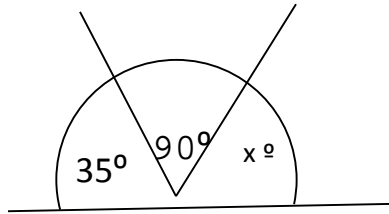
- a. 73
- b. 7.3
- c. 730
- d. 72

100) A man bought a cow for \$6,000, and then sold it for \$6,480. What was his percentage profit on the transaction?

- a. 8 %
- b. 83 %
- c. 5 %
- d. 80

GUYANA DEFENCE FORCE

101)



In the diagram above the angle marked $x^\circ =$

- a. 75°
- b. 55°
- c. 65°
- d. 45°

102) In Statistics the **mode** is the observation that occurs the

- a. most
- b. least
- c. sometimes
- d. never occurs

GUYANA DEFENCE FORCE

103) A finite set is a set where all its elements are

- a. equal
- b. can be listed
- c. unequal
- d. cannot be listed

104) In the Set of ordered pairs, (2,4),(3,6), (4,8), and (5,10), the **Domain** is ----.

- a. (4,6,8,10)
- b. (2,3,4,5)
- c. (4,3,8,5)
- d. (2,6,4,5)

105) T he exact value of $0.785 \div 0.5$ is-----.

- a. 15.7
- b. 1.565
- c. 1.57
- d. 2

106) The fraction $\frac{5}{9}$ written as a decimal (correct to 3 decimal places is -----).

- a. 0.555
- b. 5.55
- c. 55.5
- d. 0.556

107) On the face of a clock, the long hand is at 12 and the short hand is at 4. What is the sector angle between the two hands of the clock?

- a. 90°
- b. 120°
- c. 100°
- d. 20°

108) $y \times y \times y \times y \times y$ can be written as --

- a. $5y$
- b. $5+y$
- c. y^5
- D. $y \times 5$

109) A Nonagon has ____ sides.

- a. 10
- b. 9
- c. 8
- d. 7

110) 0.015 when written as a percentage is ---.

- a. 150 %
- b. 0.15%
- c. 15%
- d. 1.5%

GUYANA DEFENCE FORCE

111)

Days of the Week	Number of mangoes.
Monday	52
Tuesday	25
Wednesday	80
Thursday	60
Friday	29
Saturday	33
Sunday	43

Number of mangoes collected daily

The above table shows the number of mangoes collected by a farmer each day for one week.

What is the **average** number of mangoes collected?

- a. 64
- b. 54
- c. 46
- d. 45

112) $0.26 \times 6 =$

- a. 15.6
- b. 1.56
- c. 0.15
- d. 156

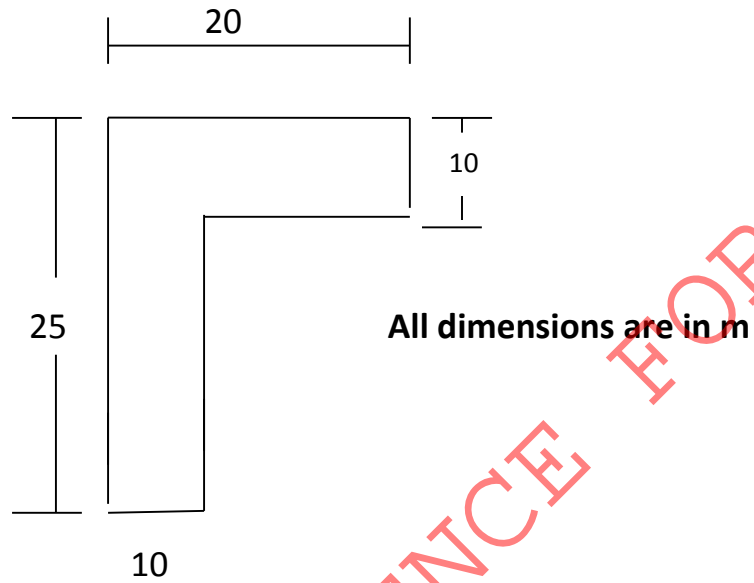
113) Given $a = 4$, $b = -2$ and $c = 3$, determine the exact value of $2a + 3b + 2c$

- a. 20
- b. -8
- c. 8
- d. -20

114) The Roman numerals LXXV =?

- a. 85
- b. 95
- c. 25
- d. 75

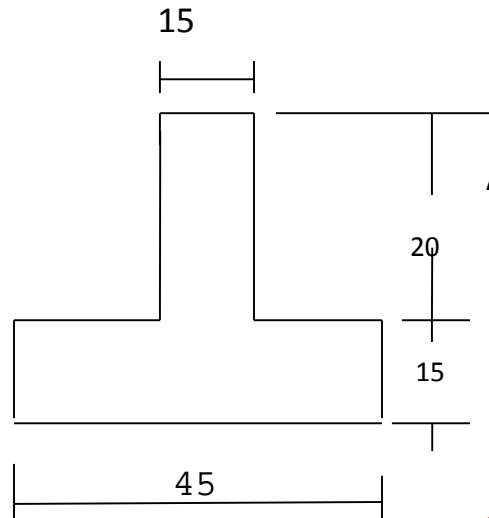
115)



What is the **volume** of the diagram above, given that the thickness is 10 cm.

- a. 3500 m^2
- b. 35.00 m^2
- c. 35.00 m^3
- d. 3500 m^3

116)



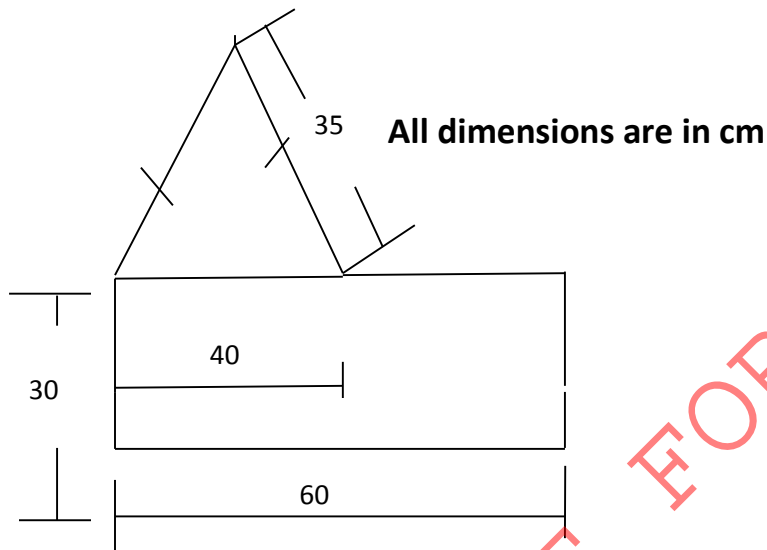
All dimensions are in metres

What is the **area** of the diagram shown above?

- a. 975 m^2
- b. 795 m^2
- c. 597 m^2
- d. 957 m^2

GUYANA DEFENCE FORCE

117)



The **perimeter** of the diagram above is -----.

- a. 230 cm^2
- b. 190 cm
- c. 230 cm
- d. 190 cm^2

118) A tank holds 480 litres of gasoline when it is full. How much gasoline does it hold when it is $\frac{2}{5}$ full?

- a. 192 litres
- b. 291 litres
- c. 19.2 litres

d. 204 litres

119) $4a + 3a =$

a. $7a$

b. $7a^2$

c. $12a$

d. $12a^2$

120) 9 times the **product** of two numbers, **a** and **b**, may be written as---

a. $9a + b$

b. $9a + 9b$

c. $81ab$

d. $9ab$

121) The perimeter of a triangular plot of land is 152 metres and the ratio of lengths of side is 5: 6: 8, the length in metres of the shortest side is ----.

a. 40

b. 48

c. 64

d. 76

122) $(1\frac{2}{3})^2$ is equal to

a. $2(\frac{7}{9})$

b. $2(\frac{4}{9})$

c. $2(\frac{1}{6})$

d. $2(\frac{5}{9})$

123) Solve for **n** in the equation

$$7n - 1 - 2n = 14$$

a. 7

b. 9

c. 3

d. 6

124) Find the L C M of 6, 10, 15.

a. 24

b. 20

c. 30

d. 42

125) Solve for **x** in the equation

$$2x + 3 = 23$$

a. 15

b. 10

c. 20

d. 25

126) Solve for **m**

$$6m + 4 = 28$$

a. 2

b. 3

c. 6

d. 4

GUYANA DEFENCE FORCE

127 On Thursday, Dennis ran $3\frac{1}{2}$ kilometres, on Friday he ran $4\frac{1}{2}$ kilometres, and on Saturday, $\frac{3}{4}$ kilometres. What is the total distance he ran in the three days?

- a. $5\frac{1}{2}$
- b. $8\frac{3}{4}$
- c. $7\frac{1}{3}$
- d. $9\frac{7}{8}$

128) Sam is 2 years younger than Deon, who is y years old. Write an expression for Sam's age.

- a. $y+2$
- b. $y - 2$
- c. $2y$
- d. $\frac{y}{2}$

GUYANA DEFENCE FORCE

129) Evaluate the expression $2ab$, given that $a = 6$ and $b = 3$.

- a. 40
- b. 28
- c. 32
- d. 36

130) Melissa is 5 cm taller than her sister, who is m cm tall. Write an expression for Melissa's height.

- a. $m + 5$
- b. $5m$
- c. $m - 5$
- d. $\frac{m}{5}$

131) Evaluate the expression below, given that $x = 4$ and $y = 5$.

$$2x + y$$

- a. 13
- b. 17
- c. 15
- d. 19

132) The sum of the angles of a triangle is 180° . Determine the size of the third angle, given that the other two angles are 45° and 90° respectively.

- a. 50
- b. 45
- c. 75
- d. 60

133) Evaluate the expression below, given that $x = 6$ and $y = 3$.

$$3x \div 6y$$

- a. 1
- b. 2
- c. 3
- d. 4

134) The sum of the angles of a triangle is 180° . Find the magnitude of the third angle, given that the other two angles are 120° and 20° respectively.

- a. 80°
- b. 40°
- c. 90°
- d. 70°

135) The sum of the angles measure in a rectangle is 360° . Find the measure of the fourth angle, given the other three angles are 130° , 60° and 100° respectively

- a. 70°
- b. 80°
- c. 90°
- d. 100°

136) Express 25% as a fraction.

- a. $\frac{3}{4}$
- b. $\frac{2}{3}$
- c. $\frac{1}{4}$
- d. $\frac{5}{8}$

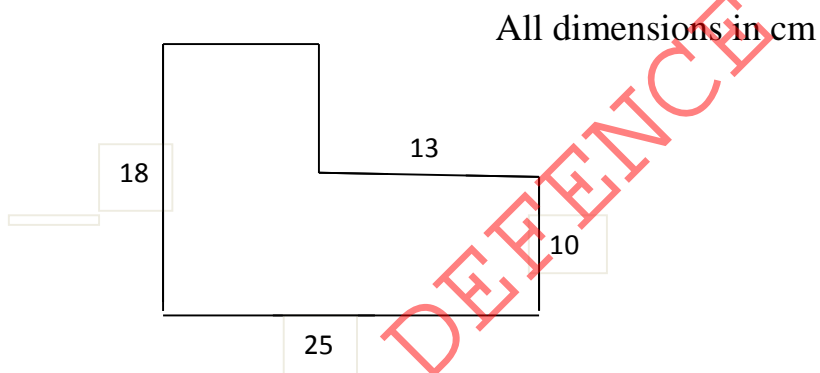
137) What are the next two numbers in the given sequence ; 4, 12, 20, 28

- a. 30, 34
- b. 32, 40
- c. 35, 41
- d. 36, 44,

138) Express $\frac{3}{4}$ as a percentage.

- a. 50%
- b. 75%
- c. 45%
- d. 35%

139) Find the area of the figure below:



- a. 336 cm^2
- b. 465 cm^2
- c. 346 cm^2
- d. 642 cm^2

140) Express 80% as a fraction.

- a. $\frac{4}{5}$
- b. $\frac{7}{8}$
- c. $\frac{5}{9}$
- d. $\frac{2}{5}$

141) List the next two numbers in the given sequence; 3, 10, 17, 24

- a. 30, 34
- b. 32, 40
- c. 35, 41
- d. 31, 38,

142) A chair was purchased for \$ 56,000. It was then sold for \$50,000. What was the loss incurred by the seller?

- a. \$6000
- b. \$600
- c. \$60,000
- d. \$ 5000

143) Elaine sells a piece of furniture which cost \$45,000 for \$38,000. What was her percentage loss on the transaction?

- a. 15.6
- b. 155
- c. 1.56
- d. 0.15

144) List the next two numbers in the given sequence; 2, 3, 5, 8, 12

- a. 17, 23
- b. 15, 19
- c. 16, 18
- d. 18, 22

145) A tailor charges \$ 3,600 for a pair of pants. If it cost him \$3,000 to make the pair of pants. What was his profit?

- a. \$60
- b. \$360
- c. \$600
- d. \$300

146) Simplify $\frac{m}{12} + \frac{2m+n}{4} - \frac{m-2n}{3}$

a. $\frac{3m-11n}{12}$

b. $\frac{2m+n}{8}$

c. $\frac{3m+11n}{12}$

d. $\frac{2m-n}{8}$

147) A hollow shaft has an outside diameter of 3.23 cm and an inside diameter of 2.5 cm. Calculate the perimeter of the shaft. (to the closest whole number)

a. 10 cm²

b. 10 cm

c. 11cm²

d. 11cm

GUYANA DEFENCE FORCE

148) The average attendance of a class for 5 days is 34. If the attendance for 4 days was 36, 37, 38 and 34, what was the attendance on the fifth day?

- a. 25
- b. 29
- c. 34
- d. 36

149) Simplify $\frac{5a}{12} - \frac{7a}{18}$

- a. $1a/36$
- b. $a/36$
- c. $a/18$
- d. $a/12$

GUYANA DEFENCE FORCE

150) Simplify $\frac{3a+5b}{4} - \frac{a-3b}{2}$

a. $5a - b/4$

b. $a - 11b/4$

c. $-5a + 11b/4$

d. $a + b/4$

151) The average of ten numbers is 58. If one of the numbers is 40. What is the mean of the other nine?

a. 18

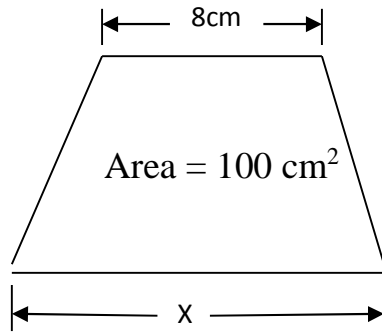
b. 60

c. 162

d. 540

GUYANA DEFENCE FORCE

152)



The figure above represents a trapezium, whose area is 100 cm^2 and one side 8 cm. The side marked $x =$

- a. 50 cm
- b. 200 cm
- c. 192 cm
- d. 96 cm

153) The observation which occurs most frequently is the

- a. median
- b. mean
- c. standard deviation
- d. mode

154) The circumference of a circle whose radius is 13.8 m

- a. 86.72 m^2
- b. 66.45m
- c. 86.70 m
- d. 55.26 m^2

155) $8 + 3 \times 7 - 5$

- a. 72
- b. 14
- c. 24
- d. 22

156) A hollow shaft has an outside diameter of 3.23 cm and an inside diameter of 2.5 cm. Calculate the cross-sectional area of the shaft.

- a. 5.432 cm^2
- b. 3.387 cm^2
- c. 4.223 cm^2
- d. 6.415 cm^2

157) The sum of the interior angles of a regular pentagon is equal to -

- a. 504°
- b. 450°
- c. 540°
- d. 405°

158) The interior angle of a regular hexagon is equal 120° . What is the magnitude of the exterior angle?

- a. 60°
- b. 75°
- c. 30°
- d. 80°

159) On the face of a clock, the long hand is at 2 and the short hand is at 5. What is the value of the **angle** formed by the two hands of the clock?

- a. 240°
- b. 180°
- c. 120°
- d. 150°

160) The formula $C = 2\pi r$, is used to calculate the --- of a circle.

- a. area
- b. cross-section
- c. diameter
- d. circumference

GUYANA DEFENCE FORCE