Popular Past Paper One Questions Part 2

Instructions

Please answer **all 56 multiple-choice questions** in this quiz.

When you are finished, click **Submit**. Your results will appear immediately, along with the **correct answers** so you can review your work and learn from any mistakes.

Good luck!

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Not shared

* Indicates required question

Full Name *

Your answer

Name of School *

Your answer

1. *　　　　　　　　　　　　　　　1 point

3 800 millimetres expressed in metres is

(A)　　　0.38
(B)　　　3.8
(C)　　　38
(D)　　　380

○ A

○ B

○ C

○ D

2. *   1 point

Given that 1 millimetre = $\frac{1}{1000}$ metres,

2 500 millimetres in metres is

(A)   0.25
(B)   2.5
(C)   25
(D)   250

○ A

○ B

○ C

○ D

---

3. *   1 point

2 500 millimetres expressed in metres is

(A)   **0.25**
(B)   **2.5**
(C)   **25**
(D)   **250**

○ A

○ B

○ C

○ D

---

4. *   1 point

The volume of a cube whose edge is 6 cm long is

(A)   **18 cm^3**
(B)   **36 cm^3**
(C)   **72 cm^3**
(D)   **216 cm^3**

○ A

○ B

○ C

○ D

5. *   1 point

The volume, in cm³, of a cube of edge 3 cm is

(A)   9
(B)   18
(C)   27
(D)   54

○ A

○ B

○ C

○ D

6. *   1 point

The volume of a cube with edge 10cm is

(A)   30 cm³
(B)   100 cm³
(C)   300 cm³
(D)   1 000 cm³

○ A

○ B

○ C

○ D

7. *   1 point

The length of the edge of a cube that has a volume of $27\ cm^3$ is

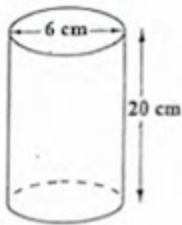(A) 3 cm

(B) 4.5 cm

(C) 6 cm

(D) 9 cm

○ A

○ B

○ C

○ D

8. * 1 point

Item 34 refers to the following diagram which shows a cylinder with diameter 6 cm and height 20 cm.

The volume, in cm³, of the cylinder is

(A)   180π
(B)   240π
(C)   360π
(D)   720π

○ A

○ B

○ C

○ D

9. * 1 point

Item 37 refers to the following diagram.

The diagram above, not drawn to scale, shows a cylinder of radius 3 cm and height 8 cm. The volume of the cylinder is

(A) $12\,\pi\ cm^3$
(B) $48\,\pi\ cm^3$
(C) $72\,\pi\ cm^3$
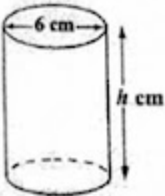(D) $192\,\pi\ cm^3$

○ A

○ B

○ C

○ D

10. * 　　　　　　　　　　　　　　　　　　　1 point

Item 33 refers to the following diagram which shows a cylinder with diameter 6 cm and height h cm.

If the volume of the cylinder, in terms of π, is 180π cm^3, then the height of the cylinder, in cm, is

(A)　　9
(B)　　20
(C)　　30
(D)　　36

○ A

○ B

○ C

○ D

11. * 　　　　　　　　　　　　　　　　　　　1 point

A rectangular garden plot, 15 m long and 12 m wide, is used to plant fruits and vegetables. If 80 m^2 of the plot is used to plant vegetables, what area of the plot is planted with fruits?

(A)　　26 m^2
(B)　　100 m^2
(C)　　134 m^2
(D)　　260 m^2

○ A

○ B

○ C

○ D

12. * 　　　　　　　　　　　　　　　　　　　1 point

In a rectangular garden plot, 15 m long and 12 m wide, an area of 80 m^2 is used for a vegetable garden. What area of the plot is NOT used for vegetable gardening?

(A)　　26 m^2
(B)　　100 m^2
(C)　　134 m^2
(D)　　260 m^2

○ A

○ B

○ C

○ D

13. *   1 point

Item 39 refers to the following table which shows the number of books 58 students bought at a sale.

No. of Books Bought	3	4	5	6	7	8
No. of Students	9	9	13	11	9	7

The mode of the number of books bought is

(A)   5
(B)   7
(C)   9
(D)   13

○ A

○ B

○ C

○ D

14. *   1 point

Item 39 refer to the following table which shows the number of books that 58 students bought at a sale.

No. of Books Bought	3	4	5	6	7	8
No. of Students	9	9	13	11	9	7

39.   The mode of the number of books bought is

(A)   5
(B)   7
(C)   9
(D)   13

○ A

○ B

○ C

○ D

15. *   1 point

Item 40. refer to the following table which shows the number of books that 58 students bought at a sale.

No. of Books Bought	3	4	5	6	7	8
No. of Students	9	9	13	11	9	7

40.   The median number of books the students bought at the sale is

(A)   4
(B)   5
(C)   6
(D)   13

○ A

○ B

○ C

○ D

16. *   1 point

Item 39 refers to the following scores which were obtained by 11 students in a competition.

5, 3, 6, 8, 7, 8, 3, 11, 6, 3, 3

The modal score is

(A)   3
(B)   6
(C)   8
(D)   11

○ A

○ B

○ C

○ D

17. *   1 point

The median of the numbers

1, 1, 5, 5, 6, 7, 7, 7, 7, 8 is

(A)   7
(B)   6.5
(C)   6
(D)   5.4

○ A

○ B

○ C

○ D

18. *　　　　　　　　　　　　　　　　　　　　　　　　1 point

Item 41 refers to the following table which shows the frequency of scores obtained by students in a test.

Scores	2	3	5	6	8	11
Students	8	4	6	3	12	2

The modal score is

(A)　　8
(B)　　9
(C)　　10
(D)　　12

○ A

○ B

○ C

○ D

19. *　　　　　　　　　　　　　　　　　　　　　　　　1 point

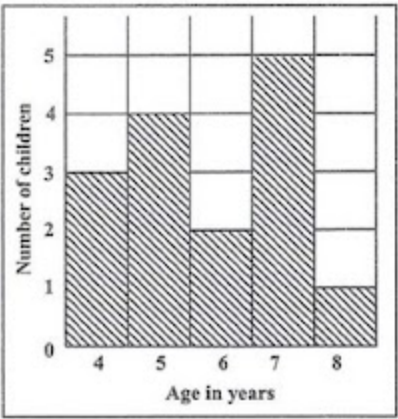Item 39　refer to the following histogram which shows the number of children aged 4, 5, 6, 7 and 8 who took part in a survey.

What was the modal age?

(A)　5
(B)　6
(C)　7
(D)　8

○ A

○ B

○ C

○ D

20. * 1 point

Item 40 refer to the following histogram which shows the number of children aged 4, 5, 6, 7 and 8 who took part in a survey.
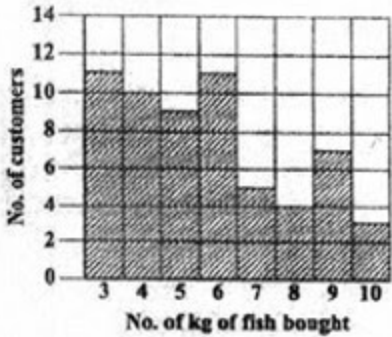

How many children took part in the survey?

(A)   5
(B)   15
(C)   75
(D)   87

○ A

○ B

○ C

○ D

21. * 1 point

Item 41 refer to the following chart which shows the amount of fish bought, in kg, by the first 60 customers at a fish market.

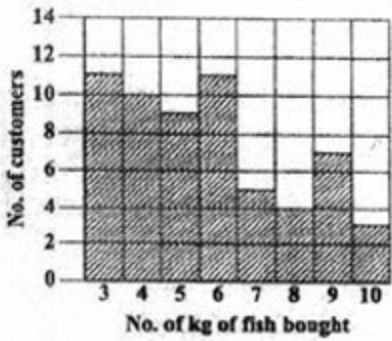How many customers bought at LEAST 6 kg of fish?

(A)   18
(B)   19
(C)   34
(D)   30

○ A

○ B

○ C

○ D

22.   1 point

Item 42   refer to the following chart which shows the amount of fish bought, in kg, by the first 60 customers at a fish market.

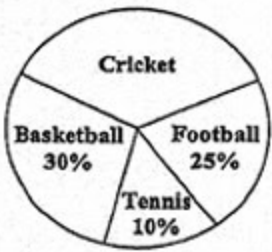The median amount of fish bought by customers is

(A)   5.5 kg
(B)   6 kg
(C)   6.5 kg
(D)   30 kg

○ A

○ B

○ C

○ D

23. *   1 point

Item 40 refers to the following pie chart which shows the popular games played by 720 students.
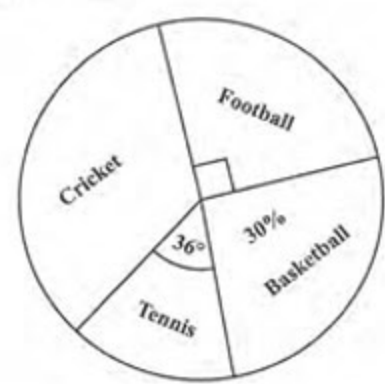

How many students play cricket?

(A)   35
(B)   120
(C)   252
(D)   300

○ A

○ B

○ C

○ D

24. *   1 point

Item 43 refers to the following pie chart which shows the popular games played by 720 students.
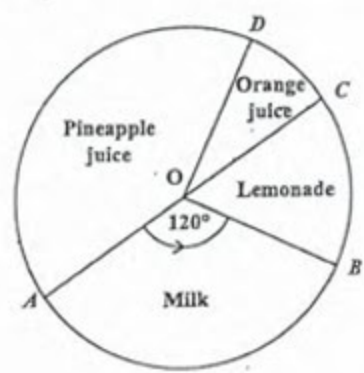

How many students played cricket?

(A)   35
(B)   120
(C)   252
(D)   300

○ A

○ B

○ C

○ D

25. *   1 point

Item 45 refers to the following piechart which shows the drinks preferred by a group of students. AOC is a diameter of the circle.

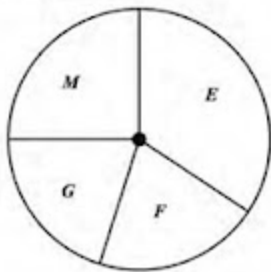If 12 students prefer lemonade, then the TOTAL number of students is

(A)   48
(B)   72
(C)   180
(D)   360

○ A

○ B

○ C

○ D

26. *   1 point

The pie chart below, **drawn to scale**, shows how a student used 12 hours in studying English (*E*), Mathematics (*M*), French (*F*) and Geography (*G*).

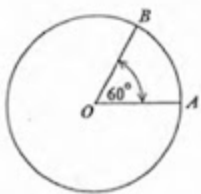The amount of time spent studying Mathematics is APPROXIMATELY

(A)   1 hour
(B)   2 hours
(C)   3 hours
(D)   4 hours

○ A

○ B

○ C

○ D

27. *   1 point

Item **32** refers to the following diagram of a circle.

In the circle above, with centre *O*, the area is 20 cm^2. The area of the minor sector *AOB*, in cm^2, is
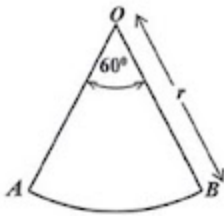
(A) $\frac{60}{360} \times 20$

(B) $\frac{120}{360} \times 20$

(C) $\frac{60}{360} \times 20 \times 20$

(D) $\frac{120}{360} \times 20 \times 20$

○ A

○ B

○ C

○ D

28. * 1 point

Item 32 refers to the following diagram which shows a sector of a circle, AOB, such that $AOB = 60°$ and OB is r units long.
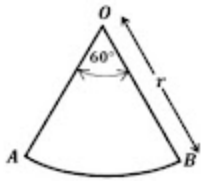

The area of AOB is

(A) $\frac{1}{6}\pi r^2$

(B) $\frac{1}{6}\pi r$

(C) $\frac{1}{3}\pi r^2$

(D) $\frac{1}{3}\pi r$

○ A

○ B

○ C

○ D

29. * 1 point

Item 35 refers to the following diagram which shows a sector of a circle, AOB.

Angle $AOB = 60°$ and the radius OB is r units long.

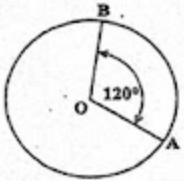The length of the arc AB of the circle is

(A) $\frac{1}{3}\pi r$

(B) $\frac{1}{6}\pi r$

(C) $\frac{1}{3}\pi r^2$

(D) $\frac{1}{6}\pi r^2$

○ A

○ B

○ C

○ D

30. *   1 point

Item 33 refers to the following circle, with centre O.

If the circumference of the circle is 15 cm, then the length of the minor arc AB, in cm, is

(A) $\quad \dfrac{360}{120} \times 15$

(B) $\quad \dfrac{120}{360} \times 15$

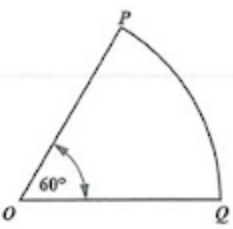(C) $\quad \dfrac{360}{360-120} \times 15$

(D) $\quad \dfrac{360-120}{360} \times 15$

○ A

○ B

○ C

○ D

31. *   1 point

Item 37 refers to the following diagram which shows a sector of a circle, with centre O.

If the length of the minor arc PQ is 8 cm, what is the length of the circumference of the circle?
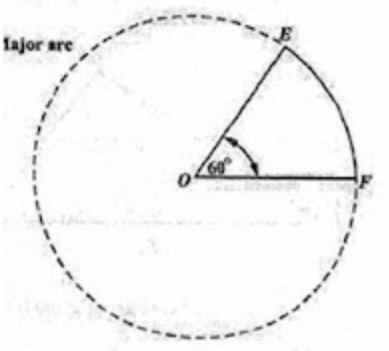
(A)   16 cm
(B)   24 cm
(C)   48 cm
(D)   64 cm

○ A

○ B

○ C

○ D

32. * 　　　　　　　　　　　　　　　　　　　　　　　　1 point

Item 32 refers to the following diagram which shows a circle, centred at O, and with a sector and the major and minor arcs indicated.

In the diagram, the length of the corresponding major arc, FE, is 40 cm. What is the circumference of the circle, in cm?

(A)　24
(B)　48
(C)　50
(D)　64

○ A

○ B

○ C

○ D

33. * 　　　　　　　　　　　　　　　　　　　　　　　　1 point

The circumference of a circle is 154 cm.

Given that $\pi = \frac{22}{7}$, the diameter of the circle, in centimetres, is

(A)　7
(B)　24.5
(C)　49
(D)　54

○ A

○ B

○ C

○ D

34. * 　　　　　　　　　　　　　　　　　　　　　　　　1 point

Fifty guests had 2 glasses of champagne each. Each glass held 150 millilitres. How many litres of champagne were used?

(A)　0.15
(B)　1.5
(C)　15
(D)　150

○ A

○ B

○ C

○ D

35. *   1 point

At a party, a number of guests were served 15 litres of champagne. Each guest had 2 glasses of champagne and each glass held 150 millilitres. Assuming no spillage, how many guests were at the party?
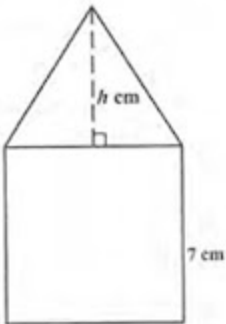
(A)   10
(B)   75
(C)   50
(D)   100

○ A

○ B

○ C

○ D

36. *   1 point

Item **37** refers to the following diagram which consists of a triangle resting on a square of side 7 cm.

If the TOTAL area of the diagram is 63 cm², what is the value of h, the height of the triangle?

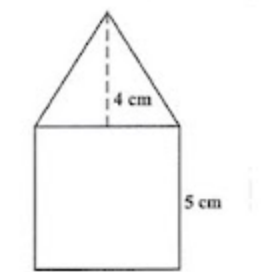(A)   2 cm
(B)   4 cm
(C)   5 cm
(D)   9 cm

○ A

○ B

○ C

○ D

37. * 										1 point

Item 34 refers to the following figure which shows a triangle resting on a square.

The length of one side of the square is 5 cm and the height of the triangle is 4 cm. What is the TOTAL area of the figure, in cm²?
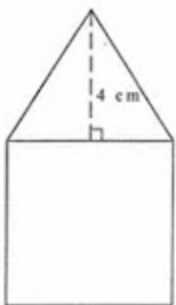
(A)   35
(B)   45
(C)   50
(D)   100

○ A

○ B

○ C

○ D

38. * 										1 point

Item 37 refers to the following diagram which shows a compound shape that consists of a triangle of height 4 cm, resting on a square.

If the area of the triangle is 14 cm², what is the area of the compound shape?

(A)   30 cm²
(B)   63 cm²
(C)   65 cm²
(D)   95 cm²

○ A

○ B

○ C

○ D

39. *   1 point

A square has the same area as a rectangle with sides of length 9 cm and 16 cm. What is the length of the side of the square?

(A)   9 cm
(B)   12 cm
(C)   12.5 cm
(D)   75 cm

○ A

○ B

○ C

○ D

40. *   1 point

A square has the same perimeter as a rectangle with length 15 centimetres and width 11 centimetres. What is the area of the square, in cm^2?

(A)   26
(B)   52
(C)   165
(D)   169

○ A

○ B

○ C

○ D

41. *   1 point

The perimeter of a square is 56 cm. What is its area, in cm^2?

(A)   28
(B)   78
(C)   169
(D)   196

○ A

○ B

○ C

○ D

42. * 1 point

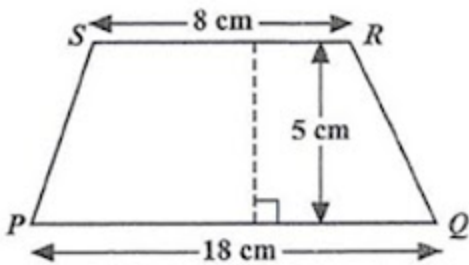The perimeter of a square is 48 cm. What is the area, in cm²?

(A)   36
(B)   72
(C)   108
(D)   144

○ A

○ B

○ C

○ D

43. * 1 point

Item **38** refers to the following diagram of a trapezium.
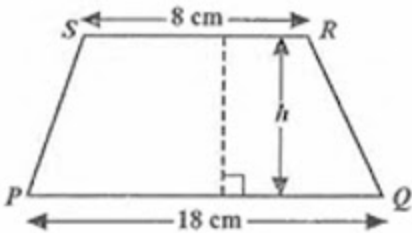

The area of the trapezium *PQRS* above is

(A)   45 cm²
(B)   65 cm²
(C)   90 cm²
(D)   130 cm²

○ A

○ B

○ C

○ D

44. * 1 point

Item 34 refers to the following diagram of a trapezium, PQRS.

If the area of the trapezium, PQRS, is 65 cm², then the height, h, is

(A) 2.5 cm
(B) 3.5 cm
(C) 4.8 cm
(D) 5.0 cm

○ A

○ B

○ C

○ D

45. * 1 point

The area of a rectangle is 53.6 cm². If the length is multiplied by four and the width is halved, the area would then be

(A)   26.8 cm²
(B)   53.6 cm²
(C)   107.2 cm²
(D)   214.4 cm²

○ A

○ B

○ C

○ D

46. * 1 point

The area of a rectangle is 40 cm^2. If the length is multiplied by 4 and the width is halved, the area would then be
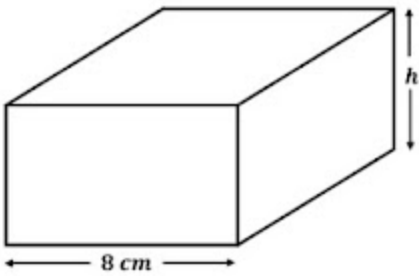
(A) 20 cm^2

(B) 40 cm^2

(C) 80 cm^2

(D) 160 cm^2

○ A

○ B

○ C

○ D

47. *   1 point

Item **36** refers to the following diagram which shows a cuboid.

. The volume of the cuboid is 320 cm^3 and the height is h cm. If the length of the

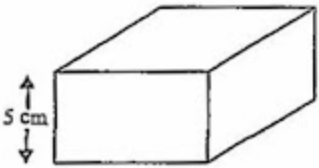square base of the cuboid is 8 cm, what is the value of h?

(A) 5 cm

(B) 16 cm

(C) 32 cm

(D) 64 cm

○ A

○ B

○ C

○ D

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48. *   1 point

Item **37** refers to the follwoing diagram, not drawn to scale, which shows a cuboid.

The volume of the cuboid is 320 cm^3 and the height is 5 cm. If the cuboid has a square base, what is the length of one side of the base?
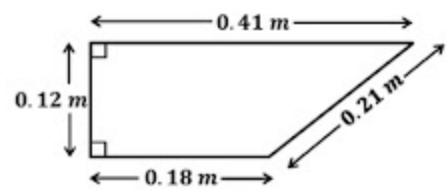
(A)   8 cm
(B)   16 cm
(C)   32 cm
(D)   64 cm

○ A

○ B

○ C

○ D

49. *   1 point

Item 32 refers to the following diagram of a trapezium.

The perimeter of the trapezium, in cm, is

(A) 0.092

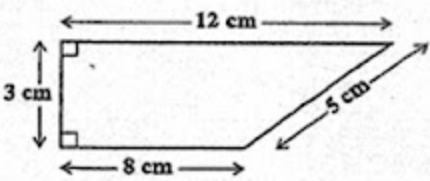(B) 9.2

(C) 92

(D) 920

○ A

○ B

○ C

○ D

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50. *   1 point

Item 32 refers to the following diagram of a trapezium.

The area of the trapezium is

(A)   24 cm²
(B)   28 cm²
(C)   30 cm²
(D)   36 cm²

○ A

○ B

○ C

○ D

51. *   1 point

The distance around the edge of a circular
pond is 88 metres. The radius, in metres,
is

(A) 88π

(B) 176π

(C) $\dfrac{88}{\pi}$

(D) $\dfrac{88}{2\pi}$

○ A

○ B

○ C

○ D

52. *   1 point

On leaving Trinidad, the time on a pilot's
watch was 23:00 h. When he arrived at his
destination in the same time zone on the
next day, his watch showed 03:00 h. How
many hours did the flight take?

(A)   4
(B)   16
(C)   20
(D)   26

○ A

○ B

○ C

○ D

53. *   1 point

On leaving Trinidad, the time on a pilot's
watch was 23:00 h. When he arrived at his
destination in the same time zone on the
next day, his watch showed 03:00 h. If the
average speed of the aircraft for the entire
journey was 625 km/h, then the distance
covered by the aircraft was

(A)   2 500 km
(B)   10 000 km
(C)   12 500 km
(D)   16 250 km

○ A

○ B

○ C

○ D

54. *   1 point

A man leaves home at 22:15 hours and reaches his destination at 04:00 hours on the following day in the same time zone. How many hours did the journey take?

(A)   5

(B) $5\frac{3}{4}$

(C)   6

(D) $6\frac{1}{4}$

○ A

○ B

○ C

○ D

55. *   1 point

An aircraft leaves A at 16:00 hours and arrives at B at 19:30 hours, travelling at an average speed of 550 kilometres per hour. A and B are in the same time zone. The distance from A to B, in kilometres, is

(A)   907.5
(B)   962.5
(C)   1 815
(D)   1 925

○ A

○ B

○ C

○ D

56. *   1 point

The distance around a lake is 8 km. On a map, this distance around the lake is represented by a length of 2 cm. The scale on the map is

(A)   1 : 40
(B)   1 : 2 000
(C)   1 : 200 000
(D)   1 : 400 000

○ A

○ B

○ C

○ D

Submit   **Clear form**