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93.65% 59 / 63

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Attempt No.	#1	Completion Time	01:19 PM
Rank	#1	Total Questions	63

59 SCORE

63 MAX MARKS

59 CORRECT

4 INCORRECT

Answer Review

Q1 **CORRECT** What is the value of $14x+3y+25x+2y$?

A. $17x + 27y$

B. $16x + 28y$

C. $39x + 5y$

D. $44xy$

Q2 **CORRECT** What is the multiplication value of $5a^2 \times 8a^5 b^3$?

A. $40a^7 b^4$

B. $40a^3 b^2$

C. $40a^4 b^7$

D. $40a^2 b^3$

Q3 CORRECT What is the simplified value of $(3x + 15) / 5x + 25$

A. $(5/3)$

B. $(3/5)$

C. $(-5/3)$

D. $(-3/5)$

Q4 CORRECT What is the value of x if $13+x = 20$?

A. 8

B. 7

C. 9

D. 13

Q5 CORRECT What is the value of x, if $x*(120) = 960$?

A. 6

B. 7

C. 8

D. 10

Q6 CORRECT What is the formula for $a^{m+n} \times a^n$?

A. a^{m+n}

B. a^{m-n}

C. a^{mn}

D. $n \cdot a^m$

Q7 **CORRECT** Which is the formula for a^m / a^n ?

A. a^{m+n}

B. a^{m-n}

C. $a^{m \times n}$

D. $(a^m)^n$

Q8 **CORRECT** What is the value of any number raised to the power of 0?

B. 1

C. (-1)

D. Alpha (?)

Q9 **CORRECT** Which is equal to $(a^m)^n$?

A. a^{m-n}

B. a^{m+n}

C. $a^{m/n}$

D. a^{mn}

Q10 **CORRECT** What is the expanded form of $(a+b)^2$?

A. $a^2 + 2ab + b^2$

B. $a^2 - 2ab + b^2$

C. $a^2 + 2ab - b^2$

D. $(-a^2 - 2ab + b^2)$

Q11 **CORRECT** What is the formula for $(a-b)^2$?

A. $a^2 - 2ab + b^2$

B. $a^2 + 2ab + b^2$

C. $a^2 - 2ab - b^2$

D. $(-a^2 - 2ab - b^2)$

Q12 **CORRECT** Which is equal to $(a+b)^2 - (a-b)^2$?

A. $2ab$

B. $3ab$

C. $4ab$

D. $5ab$

Q13 **CORRECT** What is the value of $a^2 \times a^3 \times a^4$?

A. a^7

B. a^8

C. a^9

D. a^{10}

Q14 **CORRECT** What is the value of $(a^5)^7$?

A. a^{35}

B. a^{12}

C. a^{21}

D. a^{22}

Q15 **CORRECT** What is the value of 625^0 ?

B. 1

C. 525

D. 25

Q16 **CORRECT** What is the value of $1 / a^{-5}$?

A. a^5

B. a^{-5}

C. $5a$

D. $(-5a)$

Q17 **CORRECT** What is the value of $5x^4 / 5x^3$?

A. $5x$

B. $5x^2$

C. x

D. $5x^4 / 5x^3$

Q18 **CORRECT** What is the subtracted value of $3x - 4x^2 + 2y^2$ from $4y^2 - 2x + 8x^2$?

A. $2y^2 - 5x + 12x^2$

B. $2y^2 + 5x - 12x^2$

C. $2y^2 - 5x - 12x^2$

D. $(-2y^2 - 5x + 12x^2)$

Q19 **INCORRECT** What is the value of adding $(5x+2y)$, $(4x - 7z)$ and $(15z - 3y)$?

A. $9x - y + 8z$

B. $x - 9y + 8z$

C. $x + 9y + 8z$

D. $9x + y - 8z$

Q20 **CORRECT** What is the value of $12x^3y^2 / 4x^2y$?

A. $8xy$

B. $16xy$

C. $3xy$

D. $(-3xy)$

Q21 **CORRECT** What is the value of x , if $3(2x - 4) = -4x + 28$?

A. 4

B. 8

C. 6

D. 12

Q22 **CORRECT** What is the value of x if $(x + 2) / 2 = 19$?

A. 38

B. 33

C. 35

D. 36

Q23 CORRECT What is the value of x if $11x+4=37$?

A. 2

B. 3

C. 4

D. 5

Q24 CORRECT Which is the expansion of $a^3 + b^3$?

A. $(a-b)(a^2 + b^2 - ab)$

B. $(a+b)(a^2 + b^2 - ab)$

C. $a^3 + b^3 + 3ab(a+b)$

D. $a^3 - b^3 + 3ab(a-b)$

Q25 CORRECT What is the expansion of $(a+b+c)^2$?

A. $a^2 + b^2 + c^2 + 2(ab + bc + ca)$

B. $a^2 + b^2 + c^2 - 2ab + 2bc + 2ca$

C. $a^2 + b^2 + c^2 + 2ab - 2bc + 2ca$

D. $a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$

Q26 CORRECT Which is expanded form of $a^3 - b^3$?

A. $(a+b)(a^2 - b^2 - ab)$

B. $(a-b)(a^2 + b^2 + ab)$

C. $(a-b)(a^2 - b^2 - ab)$

D. $(a-b)(a^2 - b^2 + ab)$

Q27 **CORRECT** What is the value of $(6^3) / ((-3)^3)$?

A. 8

B. (-8)

C. 27

D. (-27)

Q28 **CORRECT** What is the value of $x^2 - y^2$ if $(x+y) = 9$, $(x - y) = 4$?

A. 13

B. 65

C. 36

D. 46

Q29 **CORRECT** What is the value of 'X' if $x - y = 6$ and $x + y = 8$?

A. 5

B. 6

C. 7

D. 14

Q30 **CORRECT** What is the value of $a^2 + b^2$ if $a+b=9$ and $ab = 20$?

A. 121

B. (-121)

C. 41

D. (-41)

Q31 **CORRECT** What is the value of ab if $(a+b)^2=36$ $(a-b)^2=24$?

A. 6

B. 4

C. 3

D. 2

Q32 **INCORRECT** What is the value of $x^3+3y^2x^2$ if $x=3$, $y=2$?

A. 135

B. 81

C. 54

D. 63

Q33 **CORRECT** What are the three consecutive numbers if their sum is 42?

A. 11,12,13

B. 12,13,14

C. 13,14,15

D. 14,15,16

Q34 **CORRECT** What is the name called biggest chord of the circle?

A. Arc

B. Diameter

C. Radius

D. Diagonal

Q35 **CORRECT** What is the length of arc of a sector, whose perimeter is 64.8cm and radius is 12.4 cm?

A. 40 cm

B. 45 cm

C. 40.8 cm

D. 42 cm

Q36 **CORRECT** What is the length of arc of the sector whose radius is 15 cm and the intended angle is 30 Degree?

A. 7.85 cm

B. 7.25 cm

C. 6.75 cm

D. 6.85 cm

Q37 **CORRECT** What is the area of the sector, if the diameter is 12 cm and the angle is 60 Degree?

A. 18.0 cm^2

B. 17.75 cm^2

C. 19.00 cm^2

D. 18.84 cm^2

Q38 **CORRECT** What is the area of the circle, if the circumference of the circle is 44cm?

A. 128 cm^2

B. 130 cm^2

C. 154 cm^2

D. 129 cm^2

Q39 **CORRECT** What is the radius of the circle if the angle of sector is 90 Degree and the area of the circle is 196 cm^2 ?

A. 15.77 cm

B. 15 cm

C. 14.85 cm

D. 14.95 cm

Q40 **CORRECT** What is the area of the sector, whose diameter is 40 mm and angle is 120 Degree?

A. 418.66 mm^2

B. 400.50 mm^2

C. 415.5 mm^2

D. 416.6 mm^2

Q41 **CORRECT** What is the length of arc of a sector, whose radius is 15 cm and angle is 40 Degree?

A. 9.75 cm

B. 9.8 cm

C. 10.60 cm

D. 10.4 cm

Q42 **CORRECT** What is the length of arc of a sector whose radius is 3.6 cm and angle is 36 Degree?

A. 2.10 cm

B. 2.26 cm

C. 22.6 cm

D. 21.0 cm

Q43 **CORRECT** What is the area of the circle, whose diameter is 50 cm?

A. 1900 cm^2

B. 1950 cm^2

C. 1962.5 cm^2

D. 1960 cm^2

Q44 **INCORRECT** What is the name of the region of a circle between any two point on the circumference?

A. Arc

B. Segment

C. Sector

D. Chord

Q45 **CORRECT** What is the radius of the circle, whose circumference is 440 cm?

A. 71.5 cm

B. 70 cm

C. 70.5 cm

D. 72.2 cm

Q46 **CORRECT** What is the area of a circular surface if the radius is 14 cm?

A. 615.44 cm^2

B. 614.5 cm^2

C. 612.25 cm^2

D. 612.44 cm^2

Q47 **CORRECT** What is the circumference of a circle whose diameter is 7 cm?

A. 22 cm

B. 44 cm

C. 25 cm

D. 21 cm

Q48 **CORRECT** What is the radius of a circle whose diameter is 44 cm?

A. 44 cm

B. 22 cm

C. 23 cm

D. 20 cm

Q49 **INCORRECT** What is the diameter of the circle, if the area of the circle is 78.5cm^2 ?

A. 5 cm

B. 10 cm

C. 15 cm

D. 5.5 cm

Q50 **CORRECT** What is the area of the circle if the radius is 10 cm?

A. 314 cm^2

B. 31.4 cm^2

C. 30.4 cm^2

D. 3.14 cm^2

Q51 **CORRECT** What is the radius of the semicircle, if the circumference of the semicircle is 28.26 cm?

A. 5.49 cm

B. 6.49 cm

C. 8.5 cm

D. 8.75 cm

Q52 **CORRECT** What is the diameter of the semicircle, if the circumference of the semicircle is 21.98 cm?

A. 8.55 cm

B. 8 cm

C. 7.55 cm

D. 7 cm

Q53 **CORRECT** What is the area of the semicircle, if the diameter is 14 cm?

A. 70 cm^2

B. 76.93 cm^2

C. 75.06 cm^2

D. 86.93 cm^2

Q54 **CORRECT** What is the diameter of the circle, if the area of the circle is 706.5 cm^2 ?

A. 29 cm

B. 29.5 cm

C. 30 cm

D. 30.5 cm

Q55 **CORRECT** What is the diameter of the circle, if the circumference is 31.4 cm?

A. 5 cm

B. 10 cm

C. 8 cm

D. 8.5 cm

Q56 **CORRECT** Which machine converts mechanical energy into electrical energy?

A. Battery

B. Generator

C. Heater

D. Iron box

Q57 **CORRECT** Which is the unit of current?

A. Ampere

B. Volt

C. Ohm

D. Watt

Q58 **CORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm

D. Watt

Q59 **CORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current

C. Resistance

D. Power

Q60 **CORRECT** Which property of a substance is opposing the flow of electric current?

A. Current

B. Voltage

C. Resistance

D. EMF

Q61 **CORRECT** Which is very good conductor?

A. Copper

B. Cast iron

C. Wrought iron

D. Steel

Q62 **CORRECT** Which is mineral insulator

A. Glass

B. Quartz

C. Mica

D. Porcelain

Q63 **CORRECT** What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

A. 11 ohms

B. 7 ohm

C. 17 ohms

D. 1/17 ohms