| Q1 | Four objects have masses, $11 \mathrm{~g}, 12.4 \mathrm{~g}, 66.37 \mathrm{~g}$ and 4.201 g respectively. The total mass of all the four objects correct to appropriate significant figures is: |
| :---: | :---: |
| Q1_OA | 93.971 g |
| Q1_OB | 93.97 g |
| Q1_OC | 94 g |
| Q1_OD | 94.0 g |
| Q2 | In an experiment to determine the value of acceleration due to gravity ( $g$ ) using a simple pendulum, the length of the pendulum is recorded as ( 60.0 $\pm 0.1) \mathrm{cm}$ and corresponding time period of oscillation as $(1.55 \pm 0.01) \mathrm{s}$. The maximum percentage error in value of $g$ is: |
| Q2_OA | 0.7 |
| Q2_OB | 1.5 |
| Q2_OC | 3.2 |
| Q2_OD | 4.7 |
| Q3 | Kiran performs an experiment to determine the resistivity of given wire using Ohm's law experiment. She records the following data: <br> Length of wire: $(240 \pm 0.1) \mathrm{cm}$, Diameter of wire: $(1.00 \pm 0.01) \mathrm{mm}$, Current through the wire: $(1.0 \pm 0.1)$ A, Potential drop across the wire: $(50 \pm 1) \mathrm{mV}$. The resistivity of the wire is: |
| Q3_OA | $(1.4 \pm 0.1) \times 10^{-8} \Omega \mathrm{~m}$ |
| Q3_OB | $(1.6 \pm 0.2) \times 10^{-8} \Omega \mathrm{~m}$ |
| Q3_OC | $(1.6 \pm 0.1) \times 10^{-8} \Omega \mathrm{~m}$ |
| Q3_OD | $(2.1 \pm 0.1) \times 10^{-8} \Omega \mathrm{~m}$ |
| Q4 | A wheel is turning at a constant rate. It completes 50 revolutions in 5 s . Its angular speed, in rad/s is: |
| Q4_OA | 0.31 |
| Q4_OB | 0.63 |
| Q4_OC | 31 |
| Q4_OD | 63 |
| Q5 | A wheel starts from rest. Its angular acceleration at any time $t$ is given by $4 t^{3}$. The angle through which it turns in time $t$ is given by: |
| Q5_OA | $t^{5} / 15$ |
| Q5_OB | $t^{5} / 10$ |
| Q5_OC | $t^{5} / 5$ |
| Q5_OD | $t^{5}$ |
| Q6 | The moment of inertia of a circular disc, about an axis perpendicular to the disc and passing through its centre is $0.80 \mathrm{~kg} \mathrm{~m}^{2}$. When a 1.5 kg mass is added to its rim, 0.20 m from the axis, its moment of inertia becomes: |
| Q6_OA | $0.40 \mathrm{~kg} \mathrm{~m}^{2}$ |


| Q6_OB | $0.46 \mathrm{~kg} \mathrm{~m}^{2}$ |
| :---: | :---: |
| Q6_OC | $0.76 \mathrm{~kg} \mathrm{~m}^{2}$ |
| Q6_OD | $0.86 \mathrm{~kg} \mathrm{~m}^{2}$ |
| Q7 | The length of a cylinder is 0.30 m and its radius is 0.16 m . Its moment of inertia, about the cylinder axis on which it is mounted, is $0.032 \mathrm{~kg} \mathrm{~m}^{2}$. A string is wound around the cylinder and pulled with a force of 1.5 N . The angular acceleration, in rad/s ${ }^{2}$, of the cylinder is: |
| Q7_OA | 1.5 |
| Q7_OB | 2.5 |
| Q7_OC | 7.5 |
| Q7_OD | 9.0 |
| Q8 | A particle moves in a simple harmonic motion with period $T$ along the $x$-axis back and forth, from $x=-x_{m}$ to $\mathrm{x}=+x_{m}$. At time $t=0$, it is at $x=-x_{m}$. At $t$ $=0.25 T$, it is: |
| Q8_OA | at $x=0$ and is travelling towards $x=-x_{m}$ |
| Q8_OB | at $x=0$ and is travelling towards $\mathrm{x}=+x_{m}$ |
| Q8_OC | at $\mathrm{x}=+x_{m}$ and is at rest |
| Q8_OD | between $x=0$ and $x=+x_{m}$ and travelling towards $x=+x_{m}$ |
| Q9 | In simple harmonic motion, the displacement is maximum when the: |
| Q9_OA | velocity is maximum |
| Q9_OB | acceleration is zero |
| Q9_OC | velocity is zero |
| Q9_OD | kinetic energy is maximum |
| Q10 | A particle is in simple harmonic motion along the $x$ - axis, with an amplitude $x=\mathrm{A}$. When it is at $x=\mathrm{A} / 2$, its kinetic energy $(K)$ is 6 J and its potential energy ( U , measured with $U=0$ at $x=0$ ) is 2 J . Which of the following is correct when the particle is at $x=+\mathrm{A}$ ? |
| Q10_OA | $K=8 \mathrm{~J}, U=0$ |
| Q10_OB | $K=6 \mathrm{~J}, U=-2 \mathrm{~J}$ |
| Q10_OC | $K=6 \mathrm{~J}, U=2 \mathrm{~J}$ |
| Q10_OD | $K=0, U=8 \mathrm{~J}$ |
| Q11 | Two sinusoidal waves have the same angular frequency, the same amplitude $A$ and travel in the same direction in the same medium. If they differ in phase by $60^{\circ}$, the amplitude of the resultant wave is: |
| Q11_OA | A/2 |
| Q11_OB | A $\sqrt{3} / 2$ |
| Q11_OC | A |
| Q11_OD | $A \sqrt{3}$ |
| Q12 | A source emits sound with a frequency of 1000 Hz . Both the source and the |


|  | observer are moving towards each other with the same speed, $90 \mathrm{~m} / \mathrm{s}$. If the speed of the sound is $340 \mathrm{~m} / \mathrm{s}$, the frequency of sound as heard by the observer is: |
| :---: | :---: |
| Q12_OA | 275 Hz |
| Q12_OB | 581 Hz |
| Q12_OC | 1720 Hz |
| Q12_OD | 2150 Hz |
| Q13 | The dipole moment of a dipole has a magnitude of $4.0 \times 10^{-9} \mathrm{C} \mathrm{m}$. It is placed perpendicular to an electric field, $120 \mathrm{~N} / \mathrm{C}$. The dipole rotates so it is in the same direction as the field. The work done by the field in this process is: |
| Q13_OA | $9.6 \times 10^{-7} \mathrm{~J}$ |
| Q13_OB | $-9.6 \times 10^{-7} \mathrm{~J}$ |
| Q13_OC | $4.8 \times 10^{-7} \mathrm{~J}$ |
| Q13_OD | $-4.8 \times 10^{-7} \mathrm{~J}$ |
| Q14 | A $1.0 \mu \mathrm{C}$ charge is placed at the centre of a cube of side 10 cm . The total electric flux through all sides of the cube is: |
| Q14_OA | $5.5 \times 10^{3} \mathrm{~N} \mathrm{~m}^{2} / \mathrm{C}$ |
| Q14_OB | $2.1 \times 10^{4} \mathrm{~N} \mathrm{~m}^{2} / \mathrm{C}$ |
| Q14_OC | $1.1 \times 10^{5} \mathrm{~N} \mathrm{~m}^{2} / \mathrm{C}$ |
| Q14_OD | $1.4 \times 10^{4} \mathrm{~N} \mathrm{~m}^{2} / \mathrm{C}$ |
| Q15 | Twenty seven identical spherical raindrops are each at a potential $V$, relative to the potential far away. They combine and form one spherical drop. The potential of the new drop is: |
| Q15_OA | V/27 |
| Q15_OB | 27 V |
| Q15_OC | V/9 |
| Q15_OD | 9 V |
| Q16 | Two charges $q_{1}$ and $q_{2}$ are located at $x=\mathrm{a}$ and $x=2 \mathrm{a}$, respectively. A third charge $Q$ is placed at the origin of the $x$ - axis. For the net force on Q to be zero, $q_{1} / q_{2}$ must be: |
| Q16_OA | $\frac{1}{2}$ |
| Q16_OB | $-\frac{1}{2}$ |
| Q16_OC | $\begin{array}{\|l\|} \hline \frac{1}{4} \\ \hline \end{array}$ |
| Q16_OD | $-\frac{1}{4}$ |
| Q17 | A parallel plate capacitor is charged by a battery. After charging, the battery is disconnected. Then the plates are pulled apart so that the separation |


|  | between the plates becomes four times the original separation. Which of the <br> following quantities becomes four times due to this process? |
| :--- | :--- |
| Q17_OA | Capacitance |
| Q17_OB | Stored energy |
| Q17_OC | Surface charge density on each plate |
| Q17_OD | Electric field between the plates. |
| Q18 | A metallic wire of cross-sectional area $3.0 \times 10^{-6} \mathrm{~m}^{2}$ carries a current of 6.0 <br> A. If the electron drift speed is $3.0 \times 10^{-4} \mathrm{~m} / \mathrm{s}$, the free electron density <br> (electrons/m ${ }^{3}$ ) in the wire is: |
| Q18_OA | $4.2 \times 10^{28}$ |
| Q18_OB | $8.5 \times 10^{28}$ |
| Q18_OC | $1.1 \times 10^{29}$ |
| Q1_OD | $1.6 \times 10^{29}$ |
| Q19 | Five resistors, each of value $20 ~$ <br> combination is connected to a 20 <br> resistors is: emf device. The current in any one of the |
| Q19_OA | 0.50 A |
| Q19_OB | 1.0 A |
| Q19_OC | 2.0 A |
| Q19_OD | 4.0 A |
| Q20 | Two identical batteries, each of emf 12 V have the same internal resistance, <br> $1 \Omega$. They are connected in parallel by connecting their positive terminals <br> together and their negative terminals together. This combination is then <br> connected to a $5.5 \Omega$ resistor. The current in the $5.5 \Omega$ resistor is: |
| Q20_OA | 0.5 A |
| Q20_OB | 1.0 A |
| Q20_OC | 1.5 A |
| Q20_OD | 2.0 A |
| Q21 | A battery of 6 V is used to pass a current of 0.3 A through a bulb for 5 <br> minutes. The energy dissipated by this bulb in 5 minutes is: |
| Q21_OA | 9 J |
| Q21_OB | 90 J |
| Q21_OC | 270 J |
| Q21_OD | 540 J |
| Q22 | The focal length of a diverging lens with one flat surface is -20 cm. The <br> radius of curvature for the curved surface is $10 \mathrm{~cm} . ~ T h e ~ r e f r a c t i v e ~ i n d e x ~ o f ~$ <br> the lens is: |
| Q22_OA | 1.2 |


| Q22_OB | 1.3 |
| :--- | :--- |
| Q22_OC | 1.5 |
| Q22_OD | 1.6 |
| Q23 | In a Young's double slit experiment; the separation between the slits is <br> doubled. To maintain the same fringe width, the distance between the slit <br> and screen, $D$ must be changed to: |
| Q23_OA | $2 D$ |
| Q23_OB | $4 D$ |
| Q23_OC | D/2 |
| Q23_OD | D/4 |
| Q24 | An object is placed in front of a convex lens at a distance less than f. The <br> image formed is: |
| Q24_OA | real and smaller than the object |
| Q24_OB | real and larger than the object |
| Q24_OC | virtual and smaller than the object |
| Q24_OD | virtual and larger than the object |
| Q25 | The refractive index for water and glass are respectively 1.50 and <br> total internal reflection at an interface between this glass and water: |
| Q25_OA | occurs whenever light goes from glass to water |
| Q25_OB | occurs whenever light goes from water to glass |
| Q25_OC | may occur whenever light goes from glass to water |
| Q25_OD | may occur whenever light goes from water to glass |
| Q26 | Identify the single celled eukaryote which is both autotrophic and <br> heterotrophic? |
| Q26_OA | Amoeba |
| Q26_OB | Entamoeba |
| Q26_OC | Euglena |
| Q26_OD | Bread mould |
| Q27 | Which of the following is not grouped as fish? <br> A) Whale <br> B) Prawn <br> C) Shark |
| Q27_OA | Only A |
| Q27_OB | Only B |
| Q27_OC | A and B |
| Q27_OD | A, B and C |
| Q28 | Ginger is underground: |
| Q28_OA | root |


| Q28_OB | stem |
| :---: | :---: |
| Q28_OC | bud |
| Q28_OD | scaly leaf |
| Q29 | The organs of excretion in earthworms are: |
| Q29_OA | Kidney |
| Q29_OB | Malpighian tubules |
| Q29_OC | Nephridia |
| Q29_OD | Green glands |
| Q30 | Gametophyte is the dominant phase in: |
| Q30_OA | Angiosperms |
| Q30_OB | Gymnosperms |
| Q30_OC | Pterydophytes |
| Q30_OD | Bryophytes |
| Q31 | Identify the organelles which contain DNA? |
| Q31_OA | Chloroplast and golgi |
| Q31_OB | Mitochondria and lysosomes |
| Q31_OC | Golgi and lysosomes |
| Q31_OD | Mitochondria and chloroplasts |
| Q32 | At metaphase centrioles are at poles of mitotic spindle in: |
| Q32_OA | Plant cells |
| Q32_OB | Animal cells |
| Q32_OC | Protozoan cells |
| Q32_OD | Both plant and animal cells |
| Q33 | $\mathrm{C}_{6} \mathrm{H}_{12} \mathrm{O}_{6} \rightarrow 2 \mathrm{C}_{2} \mathrm{H}_{5} \mathrm{OH}+2 \mathrm{CO}_{2}+2 \mathrm{ATP}$ <br> The given equation depicts which of the following? <br> A. Photosynthesis <br> B. Alcoholic fermentation <br> C. Anaerobic respiration in yeast |
| Q33_OA | A only |
| Q33_OB | B only |
| Q33_OC | C only |
| Q33_OD | Both B and C |
| Q34 | Where does the light dependent phase of photosynthesis occur in the chloroplast of a plant cell? |
| Q34_OA | Stroma |
| Q34_OB | Thylakoids of grana |


| Q34_OC | Lamellae |
| :--- | :--- |
| Q34_OD | Inner membrane of chloroplast |
| Q35 | The correct definition of Osmosis, is: |
| Q35_OA | It is the movement of water molecules from a region of their high <br> concentration to that of their low concentration. |
| Q35_OB | It is the movement of water molecules from a region of their low <br> concentration to that of their high concentration. |
| Q35_OC | It is the movement of water molecules from a region of their high <br> concentration through a membrane. |
| Q35_OD | It is the movement of water molecules from a region of their high <br> concentration through a semi permeable membrane. |
| Q36 | Out of the following, which part of the human digestive system does not <br> secrete any digestive enzymes? |
| Q36_OA | Small intestine |
| Q36_OB | Stomach |
| Q36_OC | Oesophagus |
| Q36_OD | Pancreas |
| Q37 | Which part of the ear is responsible for balancing the body while in motion? |
| Q37_OA | External ear |
| Q37_OB | Middle ear |
| Q37_OC | Cochlea |
| Q37_OD | Auditory nerve |
| Q38 | The part of the brain which informs us that we are hungry and should now <br> eat is: |
| Q38_OA | Cerebrum |
| Q38_OB | Cerebellum |
| Q38_OC | Medulla oblongata |
| Q38_OD | Hypothalamus |
| Q39 | In the female reproductive system of humans the site for zygote formation is: |
| Q39_OA | Ovary |
| Q39_OB | Fallopian tube |
| Q39_OC | Uterus |
| Q39_OD | Vagina |
| Q40 | Amoeba reproduces by: |
| Q40_OA | Binary fission only |
| Q40_OB | Multiple fission only |
| Conjugation only |  |
| Qendel's only law which is applicable in all sexually reproducing organisms |  |


|  | is: |
| :--- | :--- |
| Q41_OA | Law of independent assortment |
| Q41_OB | Law of segregation of factors or law of purity of gametes |
| Q41_OC | Law of dominance |
| Q41_OD | Law of reciprocal inheritance |
| Q42 | All biodiversity has evolved through the interaction of variation and |
| Q42_OA | natural selection |
| Q42_OB | isolation |
| Q42_OC | speciation |
| Q42_OD | differential reproduction |
| Q43 | Which out of the following is the correct representation of central dogma? |
| Q43_OA | DNA $\longrightarrow$ mRNA $\longrightarrow$ Protein |
| Q43_OB | mRNA $\longrightarrow$ DNA $\longrightarrow$ Protein |
| Q43_OC | Protein $\longrightarrow$ DNA |
| Q43_OD | DNA $\longrightarrow$ Protein $\longrightarrow$ mRNA |
| Q44 | Which fungus is used in fermentation of dough to make Bhatura, generate <br> alcohol while baking cakes? |
| Q44_OA | Bread mould |
| Q44_OB | Mushroom |
| Q44_OC | Yeast |
| Q44_OD | Mycorrhizae |
| Q45 | Farmers raise leguminous crops between crops of wheat and rice for: |
| Q45_OA | enriching soil by nitrogen fixing bacteria |
| Q45_OB | growing a variety of crops |
| Q45_OC | growing enough leguminous crops as it is out staple food |
| Q45_OD | saving soil from remaining fallow |
| Q46 | A transgenic organism which is raised through biotechnology to have <br> desired qualities is a: |
| Q46_OA | GMO |
| Q46_OB | Hybrid |
| Q46_OC | Vegetatively propagated organism |
| Q46_OD | An organism with many mutations |
| Q47 | Gene therapy is the application of Biotechnology in the field of |
| Q47_OA | agriculture |
| Q47_OB | engineering |


| Q48 | When a pesticide undergoes _______ in a food chain, the last trophic <br> level has the maximum concentration of the pesticide which is termed |
| :--- | :--- |
| Q48_OA | Bioaccumulation ; Eutrophicaiton |
| Q48_OB | Biological accumulation ; Biomagnification |
| Q48_OC | Bioaccumulation ; Biomagnification |
| Q48_OD | Biomagnification ; Biological accumulation |
| Q49 | Excessive accumulation of a particular gas in the atmosphere has caused <br> global warming. Which gas is it? |
| Q49_OA | Oxygen |
| Q49_OB | Carbon-di-oxide |
| Q49_OC | Nitrogen |
| Q49_OD | Chlorine |
| Q50 | Which out of the following is not a natural ecosystem? |
| Q50_OA | An agricultural field |
| Q50_OB | A dense forest |
| Q50_OC | A vast desert |
| Q50_OD | A deep ocean |
| Q51 | Out of the following, which national song did Bankim Chandra <br> Chattopadhyay compose? |
| Q51_OA | Sare Jahan Se Achha |
| Q51_OB | Vande Mataram |
| Q51_OC | Kadam Kadam Badhaye Jaa |
| Q51_OD | Jana gana mana adhinayaka jaya hey |
| Q52 | Why is 'Kalinga war' considered very significant? |
| Q52_OA | Because Emperor won the war |
| Q52_OB | Because Emperor lost the war |
| Q52_OC | Because Emperor became dharmashok and preached Buddhism |
| Q52_OD | Because Emperor declared truce with the enemy |
| Q53 | Who built the Ho Chi Minh trail during their war against the US? |
| Q53_OA | Vietnamese |
| Q53_OB | North Koreans |
| Q53_OC | Thai |
| Q53_OD | Cambodians |
| Q54 | The eastern and western ghats mark the edges of the Deccan Plateau. What is <br> true about the ghats? |
| Q54_OA | Western ghats are higher than Eastern ghats |


| Q54_OB | The elevation of both the ghats is equal |
| :--- | :--- |
| Q54_OC | Eastern ghats are higher than Western ghats |
| Q54_OD | Western ghats are discontinuous than Eastern ghats are in one stretch |
| Q55 | What kind of winds are called as 'Loo'? |
| Q55_OA | Strong, hot dry winds blowing during summer over North India |
| Q55_OB | Stormy winds carrying dust |
| Q55_OC | Violent winds preceding rains |
| Q55_OD | Chilly winds of North Indian winters |
| Q56 | In which state of India is the Gir Forest located? |
| Q56_OA | Maharashtra |
| Q56_OB | Gujarat |
| Q56_OC | Karnataka |
| Q56_OD | Kerala |
| Q57 | Identify the incorrect statement. <br> National Thermal Power Corporation (NTPC) preserves Natural resources <br> and environment by: |
| Q57_OA | Ecological monitoring |
| Q57_OB | Reducing environmental pollution |
| Q57_OC | Minimizing waste generation |
| Q57_OD | Using old techniques and equipment |
| Q58 | In 1992, the constitution was amended to make the number of tiers of Indian <br> democracy into: |
| Q58_OA | 2 |
| Q58_OB | 3 |
| Q58_OC | 4 |
| Q58_OD | 5 |
| Q59 | One feature of our constitution is that it: |
| Q59_OA | can be amended with an Act. |
| Q59_OB | can undergo no change at all. |
| Q59_OC | has to remain as it was framed by B.R. Ambedkar. |
| Q59_OD | can be amended but can take effect only from beginning of the year. |
| Q60 | The sessions of the Rajya Sabha are presided over by the _-_. |
| Q60_OA | Speaker |
| Q60_OB | President |
| Q60_OC | Prime Minister |
| Q60_OD | Vice President |


| Q61 | Simplify: <br> $\frac{115}{161}$ |
| :--- | :--- |
| Q61_OA | $\frac{115}{161}$ |
| Q61_OB | $\frac{5}{7}$ |
| Q61_OC | $\frac{5}{14}$ |
| Q61_OD | $\frac{10}{7}$ |
| Q62 | What is the HCF of 2500 and 3200? |
| Q62_OA | 5 |
| Q62_OB | 10 |
| Q62_OC | 25 |
| Q62_OD | 100 |
| Q63 | What is the least number which when divided by 8, 6, 7 and 9 leaves a <br> reminder of 5 in each case? |
| Q63_OA | 509 |
| Q63_OB | 504 |
| Q63_OC | 499 |
| Q63_OD | 512 |
| Q64 | Rs 250 is divided between A and B in the ratio 14 : 11. The amount of <br> money received by A and B respectively is: |
| Q64_OA | Rs 130 and Rs 120 |
| Q64_OB | Rs 135 and Rs 115 |
| Q64_OC | Rs 140 and Rs 110 |
| Q64_OD | Rs 125 and Rs 125 |
| Q65 | If 8 cans costs Rs 1.20, then what is the cost of 40 cans? |
| Q65_OA | Rs 5 |
| Q65_OB | Rs 6 |
| Q65_OC | Rs 7 |
| Q65_OD | Rs 8 |
| Q66 | The marked price of a toy is Rs 40. If a discount of 20\% is given, then what <br> is the selling price of the toy? |
| Q66_OA | Rs 32 |
| Q66_OB | Rs 34 |
| Q66_OC | Rs 30 |
| Q66_OD | Rs 36 |


| Q67 | Assuming an average inflation rate of 8\% compounded, what is the probable <br> cost of a commodity in 10 years if its present cost is Rs 340? |
| :--- | :--- |
| Q67_OA | Rs 753 |
| Q67_OB | Rs 272 |
| Q67_OC | Rs 730 |
| Q67_OD | Rs 734 |
| Q68 | What is the simple interest on Rs 1287 for 4.5 years at 6.3\% per annum? |
| Q68_OA | Rs 346.80 |
| Q68_OB | Rs 364.90 |
| Q68_OC | Rs 369.40 |
| Q68_OD | Rs 354.50 |
| Q69 | Saleem was standing in a long queue at the bus stop. He was 15 from either <br> end. How many people were there in the queue? |
| Q69_OA | 15 |
| Q69_OB | 20 |
| Q69_OC | 27 |
| Q69_OD | 29 |
| Q70 | A shopkeeper had 25 TV sets. All but six were sold out. How many TV sets <br> were left? |
| Q70_OA | 6 |
| Q70_OB | 8 |
| Q70_OC | 10 |
| Q70_OD | 12 |
| Q71 | If MART is coded as 2179 and SLIT is coded as 8539, how will TRAIL be <br> coded? |
| Q71_OA | 97135 |
| Q71_OB | 91735 |
| Q71_OC | 97153 |
| Q71_OD | 97351 |
| Q72 | If TRAM is coded as 9712 and MORE is coded as 2475, how will MATRO <br> be coded? |
| Q72_OA | 21794 |
| Q72_OB | 21479 |
| Q72_OC | 21974 |
| Q72_OD | 21947 |
| Q73 | In a language, if SURF is coded as UWTH and PROM is coded as RTQO, <br> how will FROND be coded in that language? |
| Q73_OA | HTPQF |
| Q73_OB | HTQPF |


| Q73_OC | THQPF |
| :--- | :--- |
| Q73_OD | HTPFQ |
| Q74 | If a language codes BEAN as FIER and TRAP as XVET, how will it code <br> PRINT? |
| Q74_OA | TVMRX |
| Q74_OB | TVRXM |
| Q74_OC | TVMXR |
| Q74_OD | VTRMX |
| Q75 | Stephen walked 15 metres to the east, turned north and walked for 12 metres. <br> Then he turned west and walked for 20 metres. From there he walked south <br> for 12 metres. How far was he from where he had started? |
| Q75_OA | 3 metres |
| Q75_OB | 5 metres |
| Q75_OC | 8 metres |
| Q75_OD | 12 metres |

