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Answers

Apply 1.1

- a 3, -2 b 3, -2, 4.5, -1½
c 3, √5, -2, 4.5, -1½ d √5
- a -4, -3, 0, 2, 5 b 1.19, 1.2, 1.71, 2, 2.01
c -3.1, -2.45, -2.4, 1.8, 2.5
- a Natural, integer, real b Irrational, real
c Natural, integer, real d Natural, integer, real
e Integer, real f Real
- a True b False c True d True e True
- 5 + 3 < 9, or 5 < 3 + 9, or 3 < 5 + 9
- a ④ + ② is a natural number.
b ② - ④ is an integer but not a natural number.
c ② ÷ ④ is a rational number but not an integer.
- 1, 0, 1, 2, 3, 4, 5

Apply 1.2

- a 17 or 19 b 16 c 20 d 18
- Because it has factors of 3 and 5 in addition to 1 and 15.
- a True b False c False d True
e False f True g False
- a 6 b 36
- 11, 13, 17, 19
- a 3 + 61, 5 + 59, 11 + 53, 17 + 47, 23 + 41
b 5 + 31, 7 + 29, 13 + 23, 17 + 19

7	7	Start	15	37	17	11
	19	21	8	16	21	49
	9	1	23	81	33	64
	12	99	85	20	45	100
	5	25	13	2	4	41
	29	65	77	87	39	50
	3	19	36	31	Finish	6

Apply 2.1

- a 9a b 6b c 4x d 2y
e 3p f q g 2m h 6c
- a 4a + 6b b 8c + 9d c 7p + 4q
d m + n e 2p + 3q f 6x
g p - 7q h 2m + 5
- Many possible answers, e.g. 4a + 2b + 3b + 4a.
- Many possible answers, e.g. x - 2y + 2x - 3y.
- Correct answer 4p - 4q; 5p - p = 4p (Tania has forgotten that p means 1p).
- 5m - 8p; Joe thought 4n had to be subtracted but it is +4n, and that two minuses made a plus when he combined -3p and -5p.

Apply 2.2

- a abc b 4m² c 5a² d 8y²z²
- No, because 3ba is the same as 3ab.
- a 8pq b 4cd c 3z
d 2p² e 6q² f 6e²
g a² + 5a² + 4a h 6gh
- Many possible answers, e.g. 2xy + 4x² + 3xy - 3x².
- Many possible answers, e.g. 2pq + yz - pq - 8yz.
- Elena has added the 2's but the answer is 3a².
- 5c - 2d, -5c + 2d, -5c + 2d so the first expression is the odd one out.
- 2c - 2 + 4c², 2c - 4c² - 2, 4c² - 2 + 2c: so the second expression is the odd one out.
- ½x + ½y + ⅓z
- +4ab and +ba, -2a² and +a², -5a and -2a

Apply 2.3

- a 13 b 29 c 2
d 42 e 147 f 23
- a 0 b 26 c 125
d -40 e 19 f -2
- a -9 b -12 c 13
d 20 e 17 f 3
- a (2 × 5 × 9) - (4 × 9) = 90 - 36 = 54
b Many possible answers, e.g. ab + b.
- a (3 × 8) + (2 × -3) = 24 - 6 = 18
b c² = 64, d² = 9, 64 + 9 = 73 but 64 - 9 = 55, so Katya thinks d² = -9.
- Cara, y³ = -5 × -5 × -5 = -125, so 2y³ = 2 × -125 = -250
- a ⅓ b ⅓ c ½ d 3½
- a (2 × 6) + 1 = 13, which is prime.
b e.g. (2 × 10) + 1 = 21 which is not prime because 21 = 3 × 7.
- For example: p = 1 and q = 4. The rule is that q = 4p.

Apply 2.4

- 4 × 1.85 = 7.4 Answer 7.4 km
- (24 × 2.5) + 6 = 66 Answer \$66
- (26 × 2) + 30 = 82 Answer 82°F
- 42 + (11 × 10) = 152 Answer \$152
- 96000 ÷ 300 = 320 Answer 320 people per km²
- C = (12 × 5) + 18 = 78 Answer 78
- F = (16 × 4) + (10 × 9) = 154 Answer 154
- V = 22 × 11 = 242 Answer 242
- E = ¼ × 5 × 8 × 8 = 160 Answer 160

UNIT 1: FORCES AND MOTION

distance travelled (s) = average speed (m/s) × time (s)
 $s = vt$

acceleration (m/s²) = change in velocity (m/s) ÷ time taken (s)
 $a = \frac{\Delta v}{t}$

force (N) = mass (kg) × acceleration (m/s²)
 $F = ma$

weight (N) = mass (kg) × gravitational field strength (N/kg)
 $W = mg$

momentum (kg m/s) = mass (kg) × velocity (m/s)
 $p = mv$

moment (Nm) = force (N) × distance (m)
 $M = Fd$

Units and apply:
State whether 'initial velocity' = 0 + acceleration × distance (m/s)
 $v^2 = u^2 + 2as$
Force (N) = change in momentum (kg m/s) ÷ time (s)
 $F = \frac{\Delta p}{t}$

UNIT 2: ELECTRICITY

potential difference (V) = current (A) × resistance (Ω)
 $V = IR$

charge (C) = current (A) × time (s)
 $Q = It$

energy transferred (charge moved) (C) × potential difference (V)
 $E = QV$

Units and apply:
Energy transferred (J) = current (A) × potential difference (V) × time (s)
 $E = I V t$

UNIT 3: ENERGY RESOURCES AND ENERGY TRANSFER

efficiency = useful energy output ÷ total energy input × 100
 $\text{Efficiency} = \frac{\text{useful energy output}}{\text{total energy input}} \times 100$

work done (J) = force (N) × distance (m)
 $W = Fd$

gravitational potential energy (J)
force (kg) × gravitational field strength (N/kg) × height (m)
 $E_p = mgh$

kinetic energy (J) = ½ × mass (kg) × velocity² (m/s)²
 $E_k = \frac{1}{2}mv^2$

Energy transferred = work done

Units and apply:
The equations in bold are 'copy only' - repeat 100% of the equations from 'learn and apply'.
The equations from 'learn and apply' will be given.
EVERY UNIT needs to be balanced - these are in brackets and will NOT be given to you.

UNIT 4: SOLIDS, LIQUIDS AND GASES

density (kg/m³) = mass (kg) ÷ volume (m³)
 $\rho = \frac{m}{V}$

pressure (N/m²) = force (N) ÷ area (m²)
 $p = \frac{F}{A}$

pressure difference (Pa) = density (kg/m³) × gravitational field strength (N/kg) × height (m)
 $\Delta p = \rho gh$

change in thermal energy (J) = mass (kg) × specific heat capacity (J/kg °C) × change in temperature (°C)
 $\Delta E = mc\Delta\theta$

To calculate pressure and hence temperature of a fixed mass of gas at a constant temperature (Pressure in Pa, Temp in °C)
 $\frac{p_1 V_1}{T_1} = \frac{p_2 V_2}{T_2}$

To calculate pressure or volume for gases of fixed mass at constant temperature
 $p_1 V_1 = p_2 V_2$ (Pressure in Pa, Volume in m³)

Units and apply:
Voltage across primary coil (V) = number of turns in primary coil ÷ number of turns in secondary coil
 $\frac{V_p}{V_s} = \frac{N_p}{N_s}$
I_p is current in primary coil & I_s is current in secondary coil.
Equal only where there is 100% efficiency.
 $N_p I_p = N_s I_s$ (I_p & I_s current in A)

Units and apply:
UNIT 4: ASTROPHYSICS
orbital speed (m/s) or (m/s) = 2 × π × orbital radius (m) or (m) ÷ time (s)
 $v = \frac{2\pi r}{t}$

change in wavelength (km) or (m) = velocity of galaxy (m/s) × time (s)
 $\Delta\lambda = v \times t$
orbital wavelength (km) or (m) = velocity of galaxy (m/s) × time (s)
 $\lambda = v \times t$

1. velocity = distance / time
 $v = \frac{s}{t}$

2. Acceleration = change in velocity / time
 $a = \frac{\Delta v}{t}$

3. Equations for motion:
a) $v = u + at$
b) $s = ut + \frac{1}{2}at^2$
c) $v^2 = u^2 + 2as$

4. Masses in kg

5. Force = mass × acceleration
 $F = ma$

6. Momentum = mass × velocity
 $p = mv$

7. Force = change in momentum / time
 $F = \frac{\Delta p}{t}$

8. Moment = force × distance
 $M = Fd$

9. Work done = force × distance
 $W = Fd$

10. Gravitational potential energy = mass × gravitational field strength × height
 $E_p = mgh$

11. Kinetic energy = ½ × mass × velocity²
 $E_k = \frac{1}{2}mv^2$

12. Efficiency = useful energy output / total energy input × 100

13. Charge = current × time
 $Q = It$

14. Energy transferred = charge moved × potential difference
 $E = QV$

15. Potential difference = current × resistance
 $V = IR$

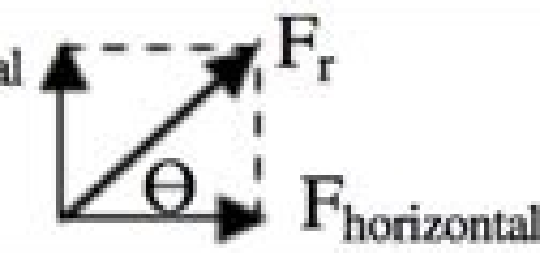
16. Voltage across primary coil = number of turns in primary coil / number of turns in secondary coil × secondary voltage
 $\frac{V_p}{V_s} = \frac{N_p}{N_s}$

17. Orbital speed = 2 × π × orbital radius / time
 $v = \frac{2\pi r}{t}$

18. Change in wavelength = velocity of galaxy × time
 $\Delta\lambda = v \times t$

19. Orbital wavelength = velocity of galaxy × time
 $\lambda = v \times t$

Dynamics

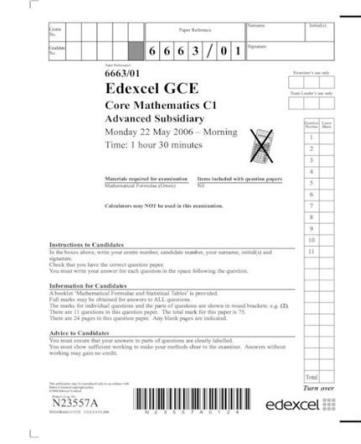
Newton's First Law $\Sigma \vec{F} = 0$ at equilibrium	A body continues to stay in its state of rest or uniform motion in a straight line as long as there is no net force/moment acting on the body.
Newton's Second Law $F = ma$	The acceleration of an object is directly proportional to the net force acting on it and inversely proportional to its mass.
Newton's Third Law	For every force object A acts on object B, object B will exert an equal and opposite force on object A giving rise to Reaction/Normal Forces
Resolving forces $F_{\text{horizontal}} = F_r \cos \theta$ $F_{\text{vertical}} = F_r \sin \theta$	

Mass, Weight, Density

Weight $w = mg$	$w =$ Weight $m =$ mass $g =$ gravitational field strength
Density $\rho = \frac{m}{V}$	$\rho =$ density $m =$ mass $V =$ volume

Turning effect of Force

Moment of Force $M = F d$	$M =$ Moment $F =$ force $d = \perp$ distance from force to pivot
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Newton's third law describes that: Force is proportional to mass and acceleration Speed of an object is given by the distance divided by time Weight is equal to mass times the force of gravity Every action has a n equal but opposite reaction Speed is a : (tick two boxes) Momentum = mass x _____ Torque= force x perpendicular distance Principle of moments says describes that: the sum of the _____ a _____ moments about any point is equal to the sum of _____ b _____ moments about that point. The formula sheet is highly neglected by students when it should be something as important as revising for the subject. You are given the formula sheet - study it - make notes on it - constantly refer to it to familiarise yourself with the formula sheet. 3 - Understand instead of simply "memorising" If you study physics hard enough, you would have probably realised by now that, "memorising" Physics is not a thing at all. 2 - Study the given formula sheet in the exam Most Physics examinations will provide you with a formula sheet with all the Physics formulas for you to refer to. Describe the cooling effect of evaporation Why is it harder to stay cool and comfortable on a humid day? It is simply not possible to "memorise" anything about physics. 1: longitudinal waves 2: transverse waves 3: can travel through a vacuum 4: cannot go through solids or liquids. Edexcel + C.I.E. These short quizzes can be used with all exam boards (including CIE 2023): Triple Sciences Topics All of these micro tests are quick and easy to complete - great for revision in small topic sections! If you want to make sure you have covered all the syllabus sections, do the end of topic quizzes specific to your syllabus. What is the equation for work done: so WORK DONE= (use "" for power of) Complete the kinematic equation : v^2= Which of the following is a feature of sound waves? Most of the time, it is either you get it or you don't. But, don't panic. Calculate the weight of the person on the moon. (g(moon)= 1.6N/kg). State the Faraday's law of Electromagnetic induction. Having a good base of theoretical knowledge on physics is inadequate as you must also familiarise yourself with the numerical concepts as well. Force = _____ x _____ Mass of an object on Earth is 120kg. Here are some of our favourite Physics channels! 1 - CrashCourse CrashCourse on Youtube is known for their easy to understand, bite-sized videos. Contact us to arrange for a free 1-1 online and live Physics lesson with us today! 82 Questions | Total Attempts: 2023 Describe how a thermistor thermometer works. To get an A* or A1 in the IGCSE or GCE O Level Physics exam it is important that you understand the concepts well. This can have a significant impact upon measurements when the measurements involved are very short (less than a second) Suppose you have to measure the thickness of a sheet of paper. Physics is a subject that is highly related to our everyday life, hence it is important to be able to relate to the question. Struggling with Physics? Be sure to check them out! Visit CrashCourse on Youtube here. 2 - Domain of Science The Domain of Science is another highly recommended YouTube channel that offers students interesting Physics topics to explore. Visit Domain of Science on Youtube here. Which law from the Newton's laws of motion correctly describes this. Marks are often available for giving the correct unit, even if your answer is incorrect. Start to build up your foundation for Physics as it builds on previous knowledge and it is vital for further advancement in the study. Try your best to understand the concepts and give yourself time to practice these concepts. We at Tutopiya want you to achieve the highest grade for your upcoming exam - therefore, we have combined a formula sheet for your easy reference in order to prepare better. When an object becomes positively charged, it can be earthed. You must, however, give an answer (even if it's just a guess): giving a unit without an answer will not gain you any marks. Page 3 Rulers can be used to measure small distances of a few cm. The question are generated by models, so they don't repeat. They are able to measure to the nearest mm A ruler can measure small distances to the nearest mm When measuring larger distances (of a few metres) a tape measure is more appropriate or, when measuring even larger distances, a trundle wheel/Trundle wheels can be used to measure large distances Measuring cylinders can be used to measure the volume of liquids or, by measuring the change in volume, the volume of an irregular shape Measuring cylinders can be used to determine the volume of a liquid or an irregular shaped solid When measuring very small distances (less than a centimetre) a micrometer is the most appropriate instrument Micrometers can be used to measure very small distances Micrometers can measure distances to the nearest 1/100th of a mm Stop-clocks and stopwatches can be used to measure time intervals An important factor when measuring time intervals is human reaction time. What does that do to the object? This article will bring you the following: - Cheatsheet on the topics that are tested for O Levels (downloadable version available too!) - Summary notes - Tips and additional resources for students to prepare for the O Levels IGCSE Physics Cheatsheet Download our PDF version here! It includes - the cheatsheet and summary notes! Download Here! General Physics Thermal Physics Waves, light and sound Electricity and Magnetism Atomic Physics Tips for Acing the GCE or IGCSE Physics subject 1 - Watch Physics Videos The Physics subject can be a difficult subject to ace as it requires students to be able to relate real-life situations to solve some problems. Hence, instead of learning Physics with just textbooks and notes and a bunch of formulas, look at pictures and watch videos! It can be extremely helpful to watch videos and relate those abstract concepts to solve problems. Then you can take a test. The thing that you are trying to measure is so small that it would be very difficult to get an accurate answer If, however, you measure the thickness of 100 sheets of paper you can do so much more accurately.

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