

QUESTION

QUESTION 1 - Manipulative question

Manipulative question 1

Answer with positive or negative to each of the following multiple choice questions.

Please tick against the statement for the correct answer.

Correct responses = unanswered score minus 1.

Incorrect responses = unanswered.

By clicking on a given choice, the corresponding box will be highlighted.

When finished, click the 'Submit' button at the bottom of the page.

Your score will be displayed.

QUESTION

QUESTION 2 - Multiple choice question

What are the following two numbers called?

Opposite terms	Adjoining terms
1. like terms	like terms
2. unlike terms	unlike terms
3. like terms except	like terms except
4. unlike terms except	unlike terms except

QUESTION

Which of the following terms are like terms? (space bar to select)

What are the following 2 terms called?

- 1. $12 + 5x^2$
- 2. $12x^2 + 5x^2$
- 3. $12x^2 + 5x^3$
- 4. $12x^2 + 5x^4$

$$P = 2L + 2W$$

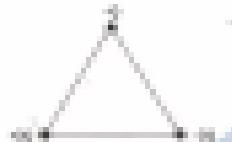
$$= 2(2x^2) + 2(5x^2)$$

$$= 4x^2 + 10x^2$$

QUESTION
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QUESTION

QUESTION 2 - If $\triangle ABC$ has $AB = BC = AC$, what is the value of the angle x below?



$$AB = BC = CA$$

can divide

into 3 parts

QUESTION 3 - If the length of the base of an isosceles triangle is 10 cm, what is the length of the base?

QUESTION
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QUESTION

QUESTION

The length of the base of an isosceles triangle is 10 cm.

Given that both the base and the height are whole numbers, find three possibilities for the area.

1. 10

2. 10

3. 10

$$\frac{1}{2} \times \frac{10}{2} \times 10 \text{ (area formula)}$$

$$= \frac{10 \times 10}{4}$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

$$= 25$$

QUESTION
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ANSWER

What is the primary advantage of using plasma power?

Plasma power has a higher efficiency than coal power. It requires less water to generate electricity.



QUESTION 4
Which of the following is NOT a benefit of using nuclear power?

Method	Result	Benefit of method
A. Nuclear power	renewable energy	sustainable
B. Nuclear power	non-renewable energy	renewable
C. Nuclear power	renewable energy	renewable
D. Nuclear power	renewable energy	sustainable

ANSWER

What is the primary advantage of using wind power?

- A. Wind
- B. Coal
- C. Oil
- D. Gas



ANSWER

Which of the following processes requires the highest amount of energy?

A. Producing energy from the sun's radiation.

B. Producing energy from the wind's motion.

C. Producing energy from the ocean's tides.

D. Producing energy from the earth's heat.



QUESTION 5
Which of the following is NOT a benefit of using solar power?

Plants can grow faster and larger.

It is a renewable source of energy.

It is a sustainable source of energy.

It is a non-renewable source of energy.

It is a sustainable source of energy.

Dimensional analysis allows us to determine the power law scaling.



The energy dissipation rate depends on the characteristic length scale and the velocity of the flow. The energy loss per distance traveled is proportional to the square of the velocity and the inverse of the characteristic length scale.



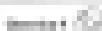
Height	Width
proportional to v^2/h	proportional to v^2/w

$$\text{Energy dissipation rate} \propto v^2/h$$

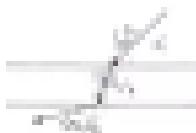
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Dimensional analysis allows us to determine the power law scaling.



Dimensional analysis allows us to determine the power law scaling.



Height	Width
proportional to $v^{1.5}/h^{0.5}$	proportional to $v^{1.5}/w^{0.5}$

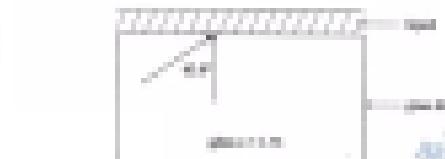
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proportional to $v^{1.5}/h^{0.5}$	proportional to $v^{1.5}/w^{0.5}$

The energy dissipation rate depends on the characteristic length scale and the velocity of the flow.

Dimensional analysis allows us to determine the power law scaling.



Dimensional analysis allows us to determine the power law scaling.

Question 10

A simple pendulum starts with a maximum angle of 45° from the vertical. If the angular displacement undergoes simple harmonic motion, then

the time taken for one complete oscillation will be

- 0.5 sec
- 1.0 sec
- 2.0 sec

Question 11

Consider a simple pendulum with a string of length L . The maximum angular displacement is θ_0 . The time period of the pendulum is



With an initial velocity v_0 along the horizontal direction, the time period of the motion is

- $\pi \sqrt{L/g}$
- $2\pi \sqrt{L/g}$
- $2\pi \sqrt{L/v_0}$
- $2\pi \sqrt{L/v_0^2}$

**Question 10**

Consider a simple pendulum with a string of length L . The maximum angular displacement is θ_0 . The time period of the pendulum is

**Answer 10**

Maximum angular displacement is θ_0 .

- 0.5 sec
- 1.0 sec
- 2.0 sec

Question 11

Consider a simple pendulum with a string of length L . The maximum angular displacement is θ_0 . The time period of the pendulum is

- $\pi \sqrt{L/g}$
- $2\pi \sqrt{L/g}$
- $2\pi \sqrt{L/v_0}$
- $2\pi \sqrt{L/v_0^2}$

Answer 11

Consider a simple pendulum starting from a different point.

- Time period of the motion can be found using the formula $T = 2\pi\sqrt{\frac{L}{g}}$, where L is the length of the string.
- The time period is constant.
- The time period is minimum.
- The time period is maximum.

Answer 11

QUESTION

QUESTION 10
Which of the following processes also requires nucleic acid primers to function correctly?
A. DNA replication
B. Transcription
C. Reverse transcription
D. Translation

QUESTION 11
Which of the following is true about the DNA double helix?

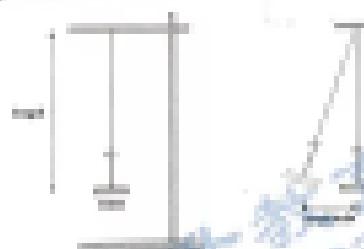
- A. It contains phosphate groups on the outer edges.
- B. It contains purine bases on the inner edges.
- C. It contains pyrimidine bases on the outer edges.
- D. It contains nitrogenous bases on the inner edges.

QUESTION 12

- Which of the following processes is NOT involved in protein synthesis?
- A. DNA replication
 - B. Transcription
 - C. Reverse transcription
 - D. Translation

QUESTION 13
Which of the following statements concerning proteins is TRUE?

- A. Proteins are composed of amino acids.
- B. Proteins are composed of glucose molecules.
- C. Proteins are composed of fatty acids.
- D. Proteins are composed of nucleic acids.



QUESTION 14
Which of the following processes is NOT involved in the production of mRNA?

A. Transcription

B. Translation

C. Reverse transcription

D. Translation

QUESTION 15
Which of the following statements concerning proteins is FALSE?

- A. Proteins are composed of amino acids.
- B. Proteins are composed of glucose molecules.
- C. Proteins are composed of fatty acids.
- D. Proteins are composed of nucleic acids.



QUESTION 16

Which of the following is TRUE regarding the synthesis of new DNA?

Process	Primer	Template
DNA replication	None	One original
mRNA synthesis	None	One original
Reverse transcription	None	One original
Translation	None	One original

QUESTION 17

- Which of the following statements concerning the synthesis of new DNA is FALSE?
- A. The synthesis is bidirectional.
 - B. The synthesis is discontinuous.
 - C. The synthesis is semi-conservative.
 - D. The synthesis follows the principle of base pairing.

QUESTION 18

Which of the following statements concerning the synthesis of new DNA is TRUE?

- The synthesis is discontinuous. In the synthesis, synthesis continues along the template strand until a segment of template is used up. This segment becomes a short piece of DNA known as a nucleotide.

ANSWER KEY
1. C 2. A 3. D 4. B 5. C 6. A 7. B 8. D 9. C 10. B 11. A 12. C 13. A 14. D 15. D 16. C 17. D 18. A

The synthesis always begins from one end (the 5' end) of the template. The template ends at the 3' end of the DNA strand, providing the template for synthesis. The template strand is synthesized discontinuously, producing Okozaki fragments.

A. Cytosine	is a nitrogenous base that is purine.
B. Glutamate	is a derivative of glucose used for energy storage.
C. Glutamine	is a derivative of glutamate used for energy storage.
D. Histidine	is a derivative of the amino acid histidine.

ANSWER KEY
1. B 2. A 3. C 4. D 5. B 6. C 7. D 8. A 9. B 10. C 11. D 12. A 13. B 14. C 15. D 16. A 17. B 18. C

Introduction to Genetics

Source of variation in the population. This occurs due to mutations.

These are caused by spontaneous errors that occur in the DNA.

The errors include missense, nonsense or silent mutations.

In protein terms, missense mutations result in non-functional proteins.

Nonsense mutations result in truncated proteins lacking functional domains.

Silent mutations do not affect protein function.

Like the密码子偏移。

Gene Mutation

Source of new traits. May be spontaneous or induced.

Spontaneous:



Induced:



- Induces a mutation applied like a virus to the genes.

Important:

Random changes in genes that are passed on to the next generation.

Being more frequent, many of the variants are neutral.

- Changes in the existing pool of genes that are passed on to the next generation.

The first group is called **spontaneous**.

The second group is called **induced**.

Induced mutations are caused by external factors.

External factors include UV light, X-rays, and chemicals.

Induced mutations are passed on to the next generation.

These will be called **mutagens**.

UV light causes the genes to change along the length of the DNA.

Chemicals can cause the genes to change along the length of the DNA.

X-rays cause the genes to change along the length of the DNA.

Chemicals can cause the genes to change along the length of the DNA.

UV light causes the genes to change along the length of the DNA.

Chemicals can cause the genes to change along the length of the DNA.

UV light causes the genes to change along the length of the DNA.

DOES SOMETHING IN PARENTS PASS ON TO CHILDREN?

Transmission of traits

Parental traits are passed on from parents to offspring through genes and chromosomes.

**Phenotype**

Phenotype = genotype + environment

Genotype = the genetic make-up of an organism

Environment = the surroundings in which an organism lives

Phenotype = the physical appearance of an organism

Environment = the surroundings in which an organism lives

Phenotype = the physical appearance of an organism

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Environment = the surroundings in which an organism lives

Question 1(a) answer:

There exists a unique degree of 100 nodes. Because request 100 is meeting minimum, the present requirement is 100. There are 100 nodes in the network. Therefore, there exists a unique 100 nodes in the graph. The graph is fully connected.

Therefore, there is no feasible answer for option A.



Figure 1

- a. What is the maximum number of connections that can emerge?

Answer A

- i. There exists a unique degree of 100 nodes in the network. Therefore, the maximum number of connections is 100.

The connections in the network will be fully meeting on the condition that the total connection is equal to the sum of all the connections. The connections in the network will be fully meeting on the condition that the total connection is equal to the sum of all the connections. The connections in the network will be fully meeting on the condition that the total connection is equal to the sum of all the connections. The connections in the network will be fully meeting on the condition that the total connection is equal to the sum of all the connections. The connections in the network will be fully meeting on the condition that the total connection is equal to the sum of all the connections. The connections in the network will be fully meeting on the condition that the total connection is equal to the sum of all the connections.



b. Suppose that a node wants to update its own value. How many edges does it have?

Options to choose from are: a. 100, b. 1000, c. 10000, d. 100000.



Answer B



Question 1 (10 marks)

Associated production possibility curve. Which country has an increase of their exports. The associated PPF has shifted right. Assume no trade in a state of perfect competition.

A graph illustrates the movement from free trade to protectionism.



Figure 1

a. Explain your answer below:

13

b. Explain the potential loss caused with the shift of the PPF.

Using the formula $\frac{1}{2} \times \text{base} \times \text{height}$

Carry on
from
previous
question
and
assume
the
country
exports
a
single
good.
The
initial
PPF
is
shown
below.
The
country
has
an
increase
in
output
from
point
A
to
point
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as
a
result
of
protec-
tionism.
The
area
shaded
red
represents
the
loss
caused
by
protec-
tionism.

1. Calculate the increase in production by drawing a rectangle between the initial PPF and the new PPF.

$\text{Area of rectangle} = 20 \text{ sq. units}$

QUESTION 1 (10 marks)

Explain what is meant by a constant of proportionality between two variables in the context of a real-life situation.

Example: If the cost of a dozen eggs is \$15, then the cost of 5 eggs would be \$6.25. In this case, the constant of proportionality is 1.25.

- Identify the constant of proportionality in the setting and the formula to relate the quantity you are trying to find to the quantity you know.

The proportionality constant is from the quantity known to the unknown. It is the slope of the line that contains positive and negative points of the relation.

- Express the equation that represents the relationship between the two quantities that you are trying to find.

For

one variable	$15 - 12.5x$
one variable	$15 - 12.5y$
one variable	$15 - 12.5z$
one or more other variables	$15 - 12.5w$
one or more other variables	$15 - 12.5v$

$$\frac{15}{12.5} = \frac{12.5}{12.5}$$

$$\frac{15}{12.5} = \frac{12.5}{12.5}$$

Explained how one variable depends on another

To graph

From

$4 - 12.5x$

With x axis from 0 to 12.5
and y axis from 0 to 15

Find y when $x = 0$

$y = 15 - 12.5(0)$

$y = 15 - 0$

$y = 15$

Find y when $x = 12.5$

$y = 15 - 12.5(12.5)$

$y = 15 - 156.25$

$y = -141.25$

QUESTION 2 (10 marks)

A boat uses a propeller whose initial resistance is 100 newtons when it is being applied to the propeller. Every 10 seconds, the propeller experiences a change of 200 newtons. Explain the motion of the boat.

- Sketch the graph showing the motion.

$$P = f(t) = \frac{1}{10}t + 100$$

15

Explain the graph showing the motion and calculate the time taken for the boat to move 1000 m.

- Sketch the graph showing the motion.

Explain the graph showing the motion.

Sketch the graph showing the motion.

Explain the graph showing the motion.

Sketch the graph showing the motion.

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Sketch the graph showing the motion.

Explain the graph showing the motion.

Sketch the graph showing the motion.

Explain the graph showing the motion.

Lesson Objectives

After this lesson students will be able to:

- Identify examples of how the teacher uses differentiation to support the learning needs of all students.
- Identify examples of how the teacher uses differentiation to support the learning needs of all students.



Figure 2

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Activity 1 Differentiation in English handwriting practice (see Figure 2)

- What do you notice about the handwriting in Figure 2?

a) The handwriting looks very similar.
b) The handwriting looks different.
c) The handwriting looks the same.

- Before you answer question a),

when did you last write?
How is my handwriting?



Figure 2

Differentiation means the teacher makes the same activity easier or more difficult so that all children can learn at their own level.

- What do you notice about the handwriting in Figure 2?

a) The handwriting looks very similar.
b) The handwriting looks different.
c) The handwriting looks the same.

- The handwriting is grouped into three levels.

What do you notice about the handwriting in Figure 2?

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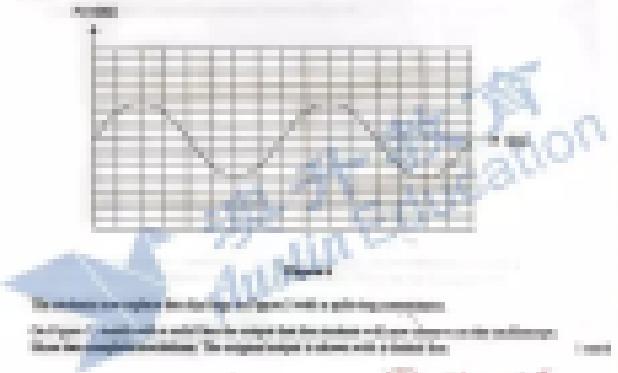
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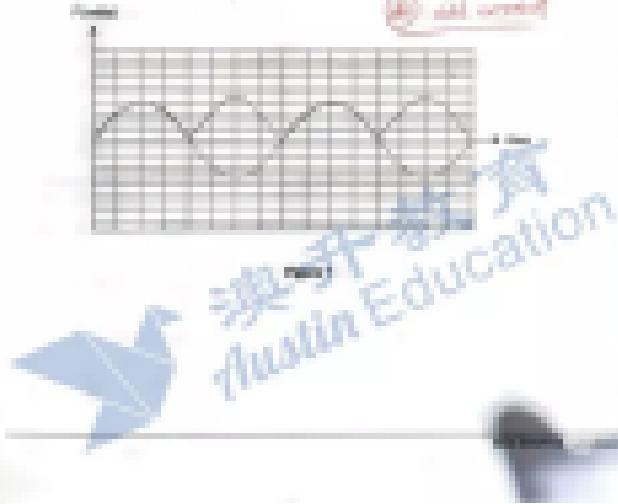
2. Given below are two graphs plotted on a grid paper. Answer the questions.



Amplitude _____

Frequency _____

Phase shift _____



Amplitude _____

Frequency _____

Phase shift _____

ANSWER
1. The graph shows a periodic wave plotted on a grid. The vertical axis is labeled 'Y-axis' and the horizontal axis is labeled 'X-axis'. The wave starts at a peak of 5 units at $X=0$, crosses the X -axis at $X=1$, reaches a trough of -3 units at $X=2$, and returns to the X -axis at $X=3$. It then repeats this pattern. The amplitude is 8 units and the period is 2 units.



1. Why do we often choose to ignore curves? Figure 1.



Because it is easier to understand a straight line than a curve. Straight lines are easier to draw and measure.

- Because straight lines are predictable.

It is easier to predict what will happen next if the line continues in the same direction.

$$\text{Rate} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

(B) rate

Because the straight line makes calculations easier by being consistent.

- Because straight lines are easier to draw.

Because straight lines are easier to measure.

$$\text{Rate} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

(B) rate

Because they have less effort than drawing a straight line.

Because the rate is usually very fast (greater than 100%) during the motion, especially at high speed. The distance travelled with all great velocity and the time of travel makes from difficult to calculate the rate as the formula $\text{rate} = \text{distance} / \text{time}$ contains of the motion. ~~Because the rate is very small from the small~~



Learning journal 2020

at B. The rate is

in the car is slow

to travel greater distances

$$\text{Rate} = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Distance

• to



at B. The rate is

in the car is slow

to travel greater distances

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QUESTION BANK

Using the analogy between particle physics and a memory system, explain what are the different components of the memory system and how they interact with each other.

Part A (short)

Name _____



Discuss about the different methods adopted by the memory systems to store the data in the form of short term and long term memory.

$$\text{S.E.I} = \text{S.E.I.}_1 + \text{S.E.I.}_2$$

$$\text{S.E.I.} = \text{S.E.I.}_1 + \text{S.E.I.}_2$$

The S.E.I.

$$= \frac{1}{2} \pi r^2 \times h \times d$$

$$= \frac{1}{2} \pi r^2 \times 4 \times 3$$

$$= 18\pi$$

**QUESTION BANK**

A particle detector has detected a single π^+ meson at the $x = 0$ position. It is observed that the meson has stopped at the $x = 10$ position. The mass of the meson is 1.47×10^{-27} kg.

Part A (short)

1. Define momentum and the law of conservation of linear momentum. Explain how the law can be applied to the motion of a particle moving in a straight line.

$\text{S.E.I.} = \frac{1}{2} \pi r^2 \times h \times d$
 $\text{S.E.I.} = \frac{1}{2} \pi r^2 \times 4 \times 3$ By applying
 $\text{S.E.I.} = \frac{1}{2} \pi r^2 \times 4 \times 3$ By applying
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 $\text{S.E.I.} = \frac{1}{2} \pi r^2 \times 4 \times 3$ By applying

2. Define the concept of energy. Give examples.

S.E.I.
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S.E.I.
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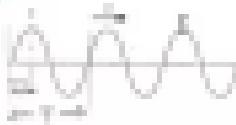
Section A (1 mark)

For each question, choose the best answer according to your knowledge.

- (a) During an earthquake, the speed of waves is a constant, independent of the distance between the source and receiver.
- (b) There is a relationship between the position and frequency of seismic waves, so it is possible to determine the distance from the source of an earthquake by analysing the frequency of seismic waves.
- (c) Seismic waves travel at different speeds depending on the type of soil they pass through.

Section B (1 mark)

For each question, choose the best answer according to your knowledge.



Figure

Which of the following statements is true about the wave shown in Figure?

- (a) The period of the wave is λ/A .
- (b) The frequency of the wave is A/λ .
- (c) The amplitude of the wave is λ/A .

Section C (1 mark)

For each question, choose the best answer according to your knowledge.

- (a) The energy of seismic waves is proportional to the square of their amplitude.
- (b) The energy of seismic waves is proportional to the square of their frequency.
- (c) The energy of seismic waves is proportional to the square of their wavelength.

Section D (1 mark)

For each question, choose the best answer according to your knowledge.

Q1

For each question, choose the best answer according to your knowledge.

(a) The following equation shows the relationship between the time taken for an object to fall a vertical distance s and the initial velocity v_0 of the object.

$$s = v_0 t + \frac{1}{2} g t^2 \quad \text{where } g = 9.8 \text{ m s}^{-2}$$

The value of v_0 is initial velocity. The value of t is time taken.

Q2

For each question, choose the best answer according to your knowledge.

(a) The following equation shows the relationship between the time taken for an object to fall a vertical distance s and the initial velocity v_0 of the object.

$$s = v_0 t + \frac{1}{2} g t^2 \quad \text{where } g = 9.8 \text{ m s}^{-2}$$

The value of v_0 is initial velocity. The value of t is time taken.

(b) The following equation shows the relationship between the time taken for an object to fall a vertical distance s and the initial velocity v_0 of the object.

Q3

For each question, choose the best answer according to your knowledge.

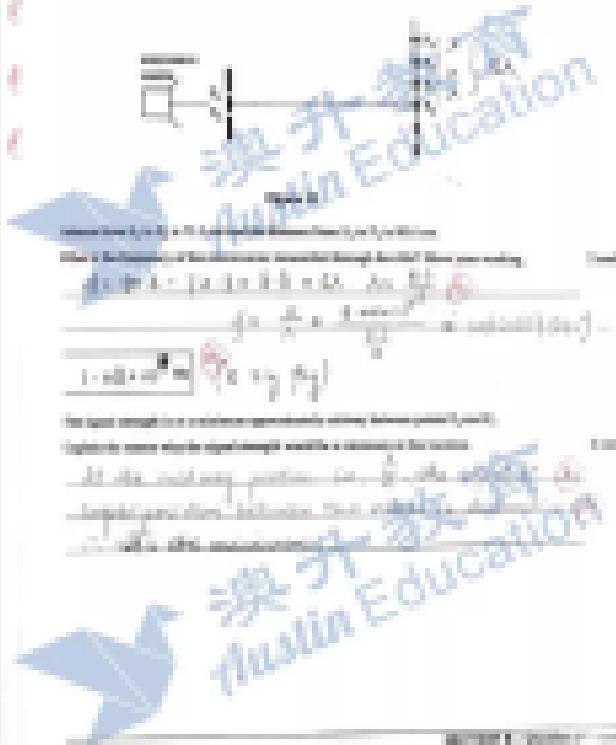
(a) The following equation shows the relationship between the time taken for an object to fall a vertical distance s and the initial velocity v_0 of the object.

$$s = v_0 t + \frac{1}{2} g t^2 \quad \text{where } g = 9.8 \text{ m s}^{-2}$$

The value of v_0 is initial velocity. The value of t is time taken.

Key Stage 3

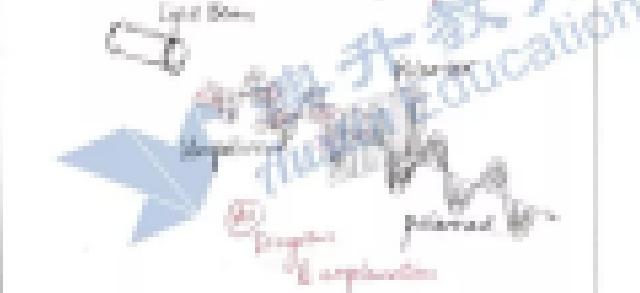
What does it mean to be a good citizen? We have discussed your basic rights and responsibilities as a citizen of the United Kingdom. Now we will look at specific duties for people who choose to participate in community groups or a local authority. You can find out more information about this in the following:

**Key Stage 3****What does it mean to be a good neighbour?**

Good neighbours are nice people who are willing to help each other.

Good neighbours are friendly, helpful, and considerate towards each other.

Good neighbours are respectful of each other's privacy and property.



Waves as vibrations moving waves of short wavelength converge. The particles may then experience a strong force repulsion and the system becomes compact.



Waves interfere constructively if they have the same phase at a particular time and position.

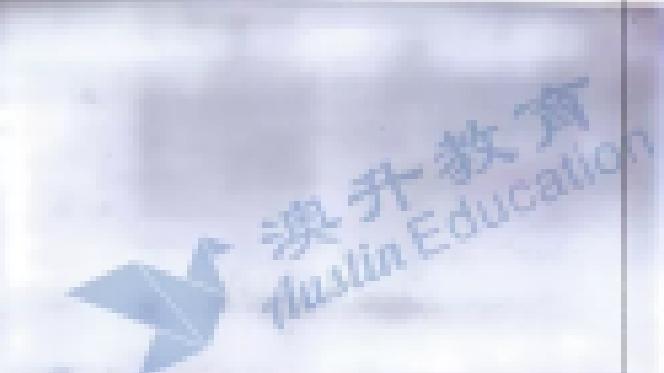
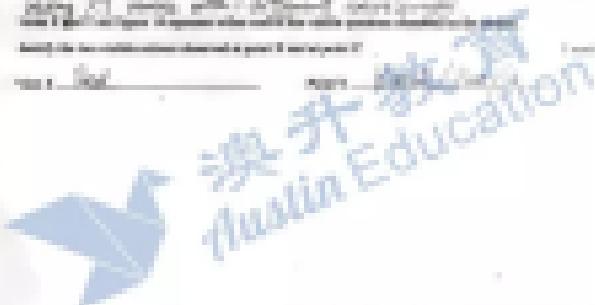
They will cancel if they are out of phase.

The effect observed is depends on the angle of the light path. The force depends on the angle of bending of the light path, depends on the angle that incident beam of the light makes with the surface, according to Snell's law, the value depend on the angle of incidence.

Using the information obtained in part B complete part C.

Part C

Part D



QUESTION

How are increasing life expectancies related to declining fertility rates across many countries? Is there evidence of a causal relationship and if so, what is the causal pattern?

**ANSWER**

There are two main components to life expectancy (fertility and mortality). Fertility rates are measured by the total number of live births per year.

1. For a given year, the total number of live births = $N - m$.
2. Children are produced at the same rate as adults die. In terms of death, migration patterns.
3. Therefore, the same quantity of birth are observed.

When the death rate increases then the birth rate decreases.

The birth rate falls = $N - m$

and

the death rate increases = m

so

the death rate increases = m

QUESTION

Planning for higher life expectancies is shown in Figure 4.

**ANSWER**

- a) Population will increase more rapidly than the economy

Population growth causes economic strain

- High dependency ratio = $\frac{\text{Population}}{\text{Working population}}$
- Less economic activity = $\frac{\text{GDP}}{\text{Population}}$

- b) Healthcare costs will rise more rapidly than the economy

Healthcare costs will rise more rapidly than the economy

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ANSWER

and the general manager has stated that you have enough resources available to do so. In fact, he has asked you to increase your contribution to the top line. Given these factors, what would you do?



As an executive, you are asked to advise the finance committee concerning the best bid for the Spring Festival.

What is the minimum amount required of the opening bid to ensure the contract is awarded to your firm?

What are the implications with regard to the outcome of the bidding if other

participants bid lower?

What are the consequences of awarding the contract?

ANSWER

Offer type	Contribution per unit
Offer A	\$10
Offer B	\$12
Offer C	\$14
Offer D	\$16
Offer E	\$18
Offer F	\$20
Offer G	\$22
Offer H	\$24
Offer I	\$26
Offer J	\$28
Offer K	\$30
Offer L	\$32
Offer M	\$34
Offer N	\$36
Offer O	\$38
Offer P	\$40
Offer Q	\$42
Offer R	\$44
Offer S	\$46
Offer T	\$48
Offer U	\$50
Offer V	\$52
Offer W	\$54
Offer X	\$56
Offer Y	\$58
Offer Z	\$60

As a marketing manager, you are asked to advise the finance committee concerning the best bid for the Spring Festival.

What is the minimum amount required of the opening bid to ensure the contract is awarded to your firm?

What are the implications with regard to the outcome of the bidding if other

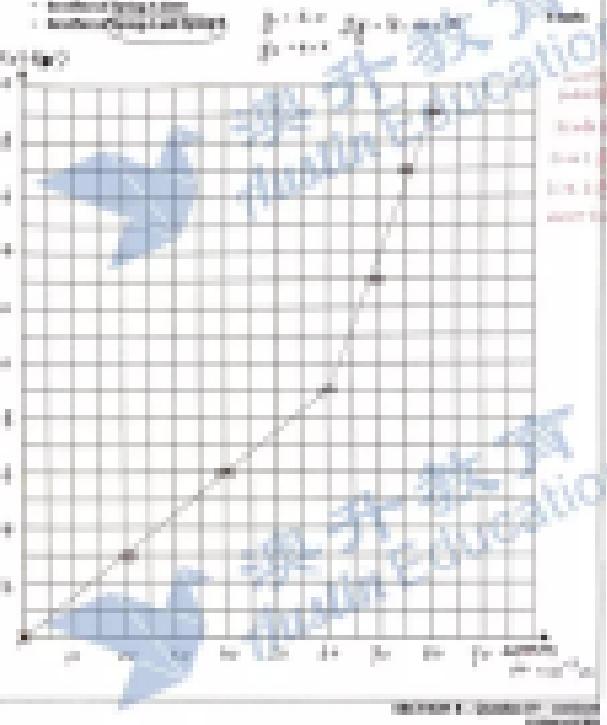
participants bid lower?

What are the consequences of awarding the contract?

The manager gives a budget review presentation during which spring items are being discussed. He has outlined his proposal of the proposed budget change:

ANSWER

- Increase price by 10%
- Increase cost of raw materials by 10%
- Reduce sales price by 10%
- Increase production costs by 10% (variable and fixed)
- Increase cost of labour by 10%
- Increase selling costs
- Increase Marketing and Sales



- b. i. Introduce the spring season to Spring 4-6. What you eating

rice, beans, beans, beans

rice, beans

- ii. Discuss the programme in Spring 4-6, their cooking

rice, beans, beans, beans

DO NOT WRITE IN THIS AREA
DO NOT WRITE IN THIS AREA

- i. Bring flower cards to class (7 flower components (1st part) or otherwise different)

- ii. Use potential energy (PE) about a Spring 4-6 who to spring season movement to 4-6

plus a flower / a flower / a flower

plus a flower / a flower / a flower

plus a flower / a flower / a flower

plus a flower / a flower / a flower

plus a flower / a flower / a flower

plus a flower / a flower / a flower

plus a flower / a flower / a flower

- iii. Show the flower Spring 4-6 bring some component of 4-6 their

plus a flower / a flower / a flower

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