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Next

UNIT 3: MATH **LESSON 8: GEOMETRY**

Match each polygon with the correct number of sides.

POLYGON	NUMBER OF SIDES
Triangle	3
Quadrilateral	4
Pentagon	5
Hexagon	6

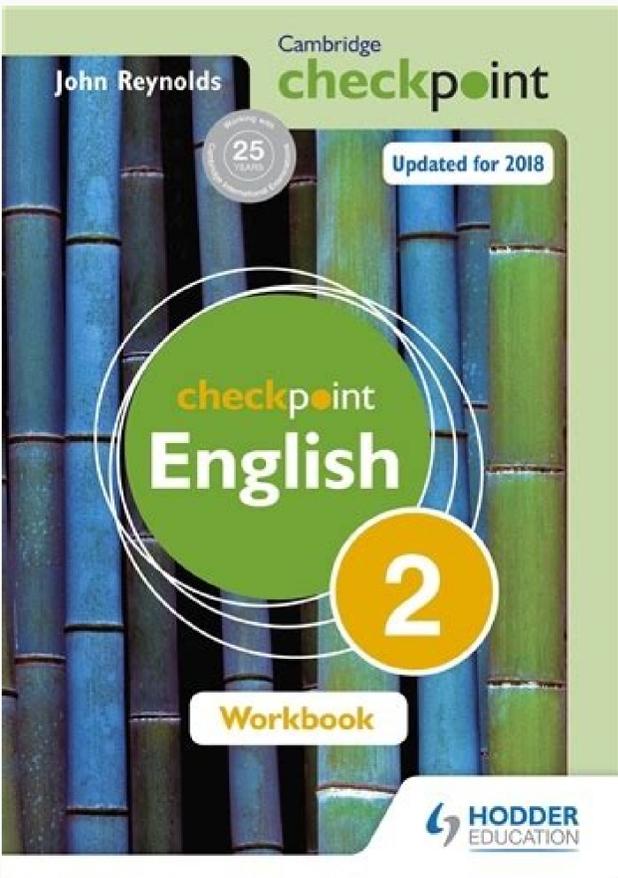
Match each figure with its name.

	a. Line Segment
	b. Obtuse Angle
	c. Square
	d. Right Angle
	e. Rectangle
	f. Right Angle
	g. Triangle
	h. Acute Angle

A triangle that has two equal angles is _____.

A triangle that has a 90° angle is _____.

An angle measuring less than 90° is _____.



BYJU'S The Learning App **NCERT Exemplar for Class 10 Science Chapter 2 Acids, Bases and Salts**

30. Identify the correct representation of reaction occurring during chloralkali process

(a) $2\text{NaCl(l)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(l)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$
 (b) $2\text{NaCl(aq)} + 2\text{H}_2\text{O(aq)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$
 (c) $2\text{NaCl(aq)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{aq}) + \text{H}_2(\text{aq})$
 (d) $2\text{NaCl(aq)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$

Soln:

Answer is (d) $2\text{NaCl(aq)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{Cl}_2(\text{g}) + \text{H}_2(\text{g})$

Short Answer Questions

31. Match the acids given in Column (A) with their correct source given in Column (B)

Column (A)	Column (B)
(a) Lactic acid	(i) Tomato
(b) Acetic acid	(ii) Lemon
(c) Citric acid	(iii) Vinegar
(d) Oxalic acid	(iv) Curd

Soln:

Column (A)	Column (B)
(a) Lactic acid	(iv) Curd
(b) Acetic acid	(iii) Vinegar
(c) Citric acid	(ii) Lemon
(d) Oxalic acid	(i) Tomato

Column (A)	Column (B)
(a) Lactic acid	(iv) Curd
(b) Acetic acid	(iii) Vinegar
(c) Citric acid	(ii) Lemon
(d) Oxalic acid	(i) Tomato

32. Match the important chemicals given in Column (A) with the chemical formulae given in Column (B)

Column (A)	Column (B)
(a) Plaster of Paris	(i) Ca(OH)_2
(b) Gypsum	(ii) $\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
(c) Bleaching Powder	(iii) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
(d) Slaked Lime	(iv) CaOCl_2

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The same person can be creative as well as intelligent but it is not necessary that intelligent once must be creative. •Example: SRPM, CIE Non-verbal group test of Intelligence. (ii)Can be administered to literates only. (iii)It gives equal attention to cognitive and non-cognitive processes, as well as their integration. Ans. 1. •Adoption Studies after the Age of 6-7 Years According to these studies as children grew older tends to more closer to that of their adoptive parents. An individual with high scientific aptitude having strong interest in mechanical activities is more likely to be successful mechanical engineer. •Vyotsky believes that while elementary mental operations are common, higher mental activities like problem-solving and thinking are culturally produced. Following are the eight types of intelligence: 1.Linguistic: This is related to reading, writing, listening, talking, understanding etc. People with IQ scores in the range of 90-110 have normal intelligence. These are executive processes. They vary in their intellectual ability. It is more possessed by hunters, farmers, tourists, students of biological sciences etc. All persons do not have the same intellectual capacity. In a creative way. Successive Processing refers to recalling information serially so that one recall leads to another recall. (iii)Interest is a facilitator. They control monitor and evaluate cognitive processing. Or All persons do not have the same intellectual capacity. (iv)It is relatively economical and less time consuming. (ii)Social competence (respect for elders, concern for others, respecting opinions of others). For e.g. Standard progressive Matrices and Bhatia's Battery Performance Test. •It is a good predictor of potential. Discuss how interplay of Nature and Nurture influences intelligence. Non-verbal Test: • Has pictures or illustrations as test items. Or How can you differentiate between verbal and performance tests of intelligence? 9. (iii)The concept of IQ was given by William. According to him there are three types of intelligences: (i)Componential intelligence (Analytical): This dimension specifies the cognitive processes that underlie an intelligent behaviour. The mean IQ score in a population is 100. 6. (a)Experiential intelligence refers to an individual's ability to make use of one's past experiences to deal with novel situations creatively and effectively. 3. (iv)There is general consensus among psychologists that intelligence is a product of complex interaction of heredity (Nature) and environment (Nurture). It is exhibited in scientific work. 5. •Technological Intelligence (i)Promotes an individualistic pattern of action. What is IQ? (ii)It is specific mental ability or teach ability of an individual to learn a particular skill. (iv)Aptitude is a determiner to learn a particular skill. 3.Spatial: This type of intelligence is involved in perceiving third dimension formation of images. 2. (ii)Different types of intelligences work together to provide a solution of problem. (iv)It does not require training for the growth. These units are responsible for: •the arousal and attention. Planning: 1.After the information is attended to and processed, planning is activated. •It deals with the ways people handle effectively their environmental demands and adapt to different contexts with available resources. •the planning. (Middle class white subjects perform well on these tests). (ii)Intelligence is a general mental ability. The items do not consider favourably to Asians and Africans. (iii) People falling between 90-109 IQ range are considered as average. (b)It may be called street smartness or 'business sense'. Intelligence tests measure potential. (iii)Environmental deprivation lowers intelligence. (iii)Allows people to answer orally or in written form or manipulate the objects as per the tester's instructions. (i) The frequency distribution for the IQ scores tends to approximate a bell-shaped curve, called the normal curve. 1. According to PASS model, theory based on information processing approach, intellectual activity involves the interdependent functioning of the three neurological systems called the functional units of the brain. 12.How is creativity related to intelligence?(Delhi Board 2010) Or How creativity and creativity tests are related but different from each other? (v)Example: Group Test of Intelligence by Prayag Mehta, Group Test on Intelligence by S. Ans.(i)IQ is an index of brightness. To overcome the limitation of Culture biased tests, Culture fair tests were developed, e.g. non-verbal and performance tests are called so because people of any culture could take them. (c) For example if a person is trapped in a room, he finds out a way of coming out of the room using rope or ladder etc. •Example: Kohs's Block designs test. (ii)Individuals in technologically educated western societies possess this kind of intelligence. -It is very useful in preparing students to face the challenges of life outside the classroom. He had some knowledge of getting out from this situation by watching out a movie few years back. The particular situation or the context decides the prominence of one type of intelligence over the others. 2.Logical-Mathematical: This type of intelligence deals with abstract reasoning and manipulation of symbols involved in numerical problems. Explain with reference to PASS model. . (iii)They are well versed in skills of attention, observation, analysis, speed, moves abstraction, generalisation, creativity, Minimum moves etc. Creativity and intelligence are positively correlated because high ability is component of creativity. A highly intelligent person may not be creative

but all the creatures are definitely high in intelligence. Environmental Studies explore the influence of environment (Nurture) on the basis of Twin studies. -In fact, the academic performance. Some possess high IQ range while others have average or below average. How does the Triarchic theory help us to understand intelligence? 3.Naturalistic: It is related to recognizing the flora and fauna, i.e., natural world and making a distinction in the natural world. This dimension serves three different functions: (a)Knowledge acquisition components: These are the processes used in learning, encoding, combining and comparing information. (iii) Terman found that persons with high IQ were not necessarily creative. For example, learning of digits and letters and multiplication tables. Planning allows us to think of possible courses of action and implementing them. -Researchers had proved that—EQ helps in dealing with students who are stressed and face challenges of the outside world. Generally people saw intelligence as mental alertness, ready art, quickness in learning and ability to understand relationships. (v)Heredity provides the potentials and sets a range of growth whereas environment facilitates the development of intelligence. Any intellectual activity involves the independent functioning of three 'neurological systems'. Example: Arousal helps the individual to focus ones attention on reading, learning and revising the contents of the material to be learnt. Yes, culture, which is a set of beliefs, customs, attitudes and achievements in art of literature, affects the process of intellectual development. Aptitude: (i)Aptitude refers to combination of characteristics indicative of an individual's potential to acquire some specific skills with training. (iv)Researchers have found that both high and low level of creativity can be found in highly intelligent children and also children of average intelligence. (i)Creativity is the ability to produce ideas, objects, or problem solutions that are novel, appropriate and useful. •According to Sternberg, intelligence is a product of culture. (c)People high in this ability are successful in life. -They are less anti-social and more co-operative. Individual Test: (i)Administered to one individual at a time. 4. •This can be shown in the form of following table. This type of distribution is symmetrical around the central value, called the mean. •Tests developed-in-America and Europe represent an urban and middle class cultural ethos. It includes: (i)Cognitive competence (discrimination, problem-solving). How do psychologists characterize and define intelligence? •Example: Draw a Man Test by Pramila Pathak, Kohs Block designs test. Sternberg proposes a theory of intelligence based on information processing approach in 1985 known as the Triarchic theory of intelligence. Types of Intelligence Tests: Individual or group tests based on contact. •Creative tests are different from intelligence tests: (i)Creative tests measure creative thinking ability whereas intelligence tests measure general mental ability. Robert J. (ii) Creative tests measure convergent and divergent thinking whereas intelligence test measure convergent thinking only. 6.Inter-personal: It requires understanding of motives, feelings and behaviours of other people.sales people, politicians, teachers, clinicians and religious readers have high degree of inter-personal intelligence. Factors such as nutrition, good family background and quality schooling increase growth rate of intelligence. (i) The intelligence score of twins reared apart as they grew older, tends to more closer to that of their adoptive parents. (ii)It is the ratio of mental age to chronological age. (ii) Intelligence is subset of creativity. • Example: Stanford Binet intelligence scale, WAIS, WISSC, Alexander Pass along test. •Example: Ravens progressive matrices. Sailors, engineers, surgeons, pilots, care drivers, sculptors and painters have highly developed spatial intelligence. (i) Whether intelligence is evolved or it is developed due to the environment, is a question of debate. (CBSE 2008) Ans. Culture Biased or Culture Fair Tests based on Nature of Items used: •Psychological tests that show a bias toward the culture in which they are developed are Culture Biased Tests. (i) Intelligence is a global and aggregate capacity of an individual to think rationally, act purposefully and to deal effectively with her/his environment. (iv)In creative tests questions are open-ended that have no specified answers whereas intelligence tests mostly use close-ended questions. Explain. 4.For example, to take a test scheduled by your teacher, you'd have to set goals, plan a time schedule of studies, get clarifications in case of problems or think of other ways to meet your goals. These studies provide evidence that intelligence is determined because of nature. (iii)Seek answers in a Multiple-choice format. •Can be administered to persons from different cultures and reduce culture biases. How do psychologists classify people on the bases of their IQ scores? Group Test: (i)Administered to several individuals at a time simultaneously. Some are exceptionally bright and some are below average. Accordingly Alfred Binet also used these attributes and defined intelligence as ability to judge well, understand well and reason well.Later Wechsler gave a comprehensive definition in terms of its functionality, i.e., its value for adaptation to environment. (CBSE 2014) Ans. (CBSE 2012-13) Ans. Arousal and Attention (i)State of arousal helps in attending to the stimuli. (iv)Entrepreneurial competence (commitment, persistence, patience). Oxford dictionary explained intelligence as the power of perceiving, learning understanding and knowing. Interest: (i)Interest refers to preference for a particular activity or what one enjoys doing. •Culture Fair Tests: One does not discriminate against as individuals belong to different cultures. (iv)'Buddhi' is the knowledge of one's own self based on conscience, will and desire. 7. 10.Which of the two IQ or EQ, do you think would be more related to success in life and Why? • the simultaneous and successive processing. 11. Are there cultural differences in the conceptualisation of intelligence? (ii)Lot of studies have been done to determine the role of nature and nurture. (ii)Do not allow an opportunity to be familiar with the subjects' feelings. (iii)Example: CIE, Verbal Group Test, Stanford Binet Intelligence Scale. Verbal, Non-verbal and Performance Tests based on Mode of Administration: Verbal Tests: (i)Requires subject to give verbal responses either orally or in written form. He defined intelligence as "the global and aggregate capacity of an individual to think rationally, act purposefully and to deal effectively with his/her environment." Present day psychologists such as Gardner and Sternberg emphasized that "Intelligent individual not only adapts to the environment, but actively modifies or shapes it." Sternberg views intelligence as " the ability to adapt, to shape and select environment to accomplish ones goals and those of ones society and culture." 2.What extent is our intelligence the result of heredity (nature) and environment (nurture)? Explain briefly the multiple intelligences identified by Gardner. 2.Planning involves reaching to the target and evaluating their effectiveness. (ii)The intelligences are independent from each other. How do individuals vary in their intellectual ability? (i) IQ is a good predictor of potential. (iv) Those with IQ below 70 are suspected to have 'mental retardation'. According to Sternberg, intelligence is an ability to adapt, to shape and select environment to accomplish ones goals and those of ones society and culture. (iii)Here we will discuss the controversy with the help of various twin studies, adoption studies and environmental studies. •Integral Intelligence (i)Intelligence in the Indian tradition is integral intelligence. Jalota. Psychological notion of intelligence is quite different from the common sensed notion of intelligence. (iv)Too much or too little arousal interferes with attention and performance. It is clear that only 2.2 percent people who possess above 130 IQ range are very intelligent or very superior, their IQ score is more than 130. 5.Bodily Kinesthetic: It requires the skills and dexterity for fine coordinated motor movements, such as those required for dancing, athletics, surgery, craft making etc. Intra-personal: It is related to understanding one's self and developing a sense of identity, e.g., philosophers and spiritual leaders. (c)Performance components: These components execute strategies prepared by metacomponents to perform a task.For example, While studying students plan the lesson chapterwise, they make schedules, categories the learning material and do integrate the information to comprehend well. (iii)Creative tests measure imagination and spontaneous expression to produce new ideas, to see new relationship, to guess causes and consequences and ability to put things in a new context. Stern w7ho gave the formula to calculate IQ i.e., •IQ is relatively stable. Poets exhibit this ability better than others. •IQ scores are distributed in a population in such a way that most people tend to fall in the middle range of the distribution. (b)Metacomponents: 'Meta' means higher. (a)It is individual's ability to make use of his/her potential to deal with day-to-day life. All the scores gradually and symmetrically decline towards both the sides but never touch the X-axis. Simultaneous and Successive Processing: Simultaneous Processing refers to perceiving relations amongst various concepts and integrate them into meaningful patterns for comprehension! For e.g., in Raven's standard progressive matrices (RSPM Test) choosing appropriate pattern by comprehending relationship. (ii)It views intelligence from a holistic perspective. 8.Discuss various types of intelligence tests. How is 'Aptitude' different from 'interest' and intelligence? (ii)Contextual intelligence (Practical): This dimension specifies the ability to deal with environmental demands on daily basis. •Non-verbal and Performance Tests reduce cultural influences. (v)It has effective, motivational as well as cognitive components. Mental retardation refers to sub-average intellectual functioning. (CBSE 2008, 2014) Ans. (iii)It is product of heredity and environment. (ii)Experiential intelligence (Creative): This dimension specifies how experiences effect intelligence and how intelligence effects a person's experiences. (ii)Arousal and attention enable a person to process information. This theory attempts to understand the cognitive processes involved in problem solving. Here the subject is asked to arrange the blocks in a specified period to produce a given design, Bhatia's Battery performance test. (ii)On the basis of differences in environment, children from disadvantaged homes adopted into families with higher, socio-economic status exhibit an increase in their intelligence scores. NCERT SolutionsHistoryPolitical ScienceSociologyPsychologyHumanities (ii) EQ is a good predictor of success. (iii)Optimal level of arousal focuses our attention on relevant aspects of a problem. In this test the subject examines an incomplete pattern and chooses a figure from the alternatives that will complete the pattern. 3.If a plan does not work, it is modified to suit the requirements of the task or the situation. The same time, creative ideas could come from persons who did not even one of those identified as gifted, followed up through out their adult life, had become well known for creativity in some field. (ii)Requires the administrator to establish a rapport with the subject and be sensitive to his/her feelings, mood and expressions during the testing sessions which provides understanding of other aspects of subjects personality. (iii)Emotional competence (self regulation, self monitoring). The extreme right also lie to 2.2 percent population which are known as gifted i.e., they enjoy exceptional intelligence, exceptional talent and exceptional creativity. The behaviour is maladaptive and manifest in four forms i.e., mild, moderate, severe and profound mental retardation. It is used while navigating in space, forming, transforming and using mental images. •Written language is not necessary for answering the items. (iii)It is the potentiality to perform a particular activity. (d)This intelligence is mostly high among scientists and creative people. (ii) On the basis of IQ, people are classified in different groups. Gardner's theory based on information processing approaches functions on three basic principles: (i)Intelligence is not a single entity, there exist multiple intelligences. (ii)Interest are acquired/learnt. Discuss. Performance Test: •Requires the subject to manipulate objects to perform the test. On the basis of twin studies co-relation results are as follows: (i)Identical twins reared together correlate 0.90 (ii)Identical twins reported early in childhood and reared in different environments correlate 0.72 (iii)Fraternal twins reared together correlate 0.60 (iv)Siblings reared together correlate 0.50 (v) Siblings reared apart correlate 0.25 •Adoption Studies before the Age of 6-7 Years These studies of adopted children show that children's intelligence is more similar to their biological parents. •Reduces culture biases. 4.Musical: Persons with musical intelligence show sensitivity to pitch and tone required for singing, playing and instrument, composing and appreciating music etc. Gardner has so far proposed eight intelligences, however all individuals do not possess them in equal proportion.

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