PSIA

Private Schools Interscholastic Association

Maps, Graphs, & Charts

DISTRICT Contest

Grades 6-8
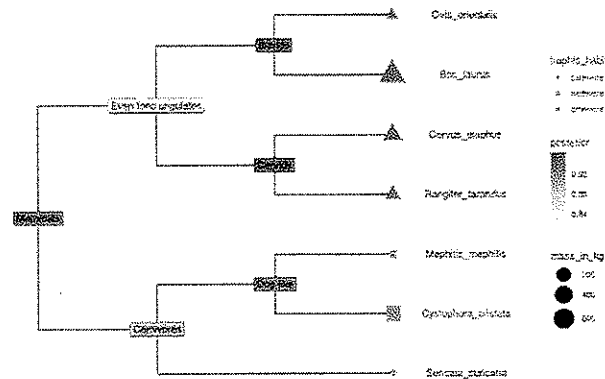
2020

FINAL SCORE: _____

(Please do not open test until the signal is given to begin.)

Atlas Questions – United States – The following questions are about the United States.

1. Which of the following Florida city is the most north?
    A. Orlando
    B. Miami
    C. Daytona Beach
    D. West Palm Beach

2. What large lake in Arkansas is located northeast of Fayetteville?
    A. Lake Dardanelle
    B. Lake Ouachita
    C. Lake O' the Cherokees
    D. Beaver Lake

3. What major Pennsylvania city is north of IH-90?
    A. Harrisburg
    B. Pittsburgh
    C. Erie
    D. Scranton

4. Which of the following cities' airports has the most airline passengers per year?
    A. Denver
    B. Houston
    C. Miami
    D. Chicago

5. Sheridan, Wyoming is closest to the border with what other state?
    A. Montana
    B. Idaho
    C. South Dakota
    D. Utah

6. What percent of consumed energy in the United States comes from coal?
    A. 17.7%
    B. 28.2%
    C. 21.4%
    D. 9.6%

7. Which of the following areas of Alaska are classified as tundra?
    A. Alaska Peninsula
    B. Aleutian Islands
    C. Alexander Archipelago
    D. Seward Peninsula

8. What two agricultural commodities is Idaho known for producing?
    A. hogs and lettuce
    B. dairy and potatoes
    C. cotton and corn
    D. wheat and beef

9. Which of the following states is not correctly matched with its capital city?
    A. Richmond, Virginia
    B. Detroit, Michigan
    C. Springfield, Illinois
    D. Montpelier, Vermont

Chart and Map – Use the following chart and map to answer questions about NASA's (manned) Mercury program.

Mission	Call-sign	Pilot	Launch time (local)	Duration	Orbits	Apogee (mi)	Perigee (mi)
MR-3	Freedom 7	Shepard	9:34am – May 5, 1961	15 m 22 s	0	117	None
MR-4	Liberty Bell 7	Grissom	7:20am – Jul 21, 1961	15 m 37 s	0	118	None
MA-6	Friendship 7	Glenn	9:47am – Feb 20, 1962	4 h 55 m 23 s	3	162	100
MA-7	Aurora 7	Carpenter	7:45am – May 24, 1962	4 h 56 m 5 s	3	167	100
MA-8	Sigma 7	Schirra	7:15am – Oct 3, 1962	9 h 13 m 15 s	6	176	100
MA-9	Faith 7	Cooper	8:04am – May 15, 1963	1 d 10 h 19 m 49 s	22	166	100

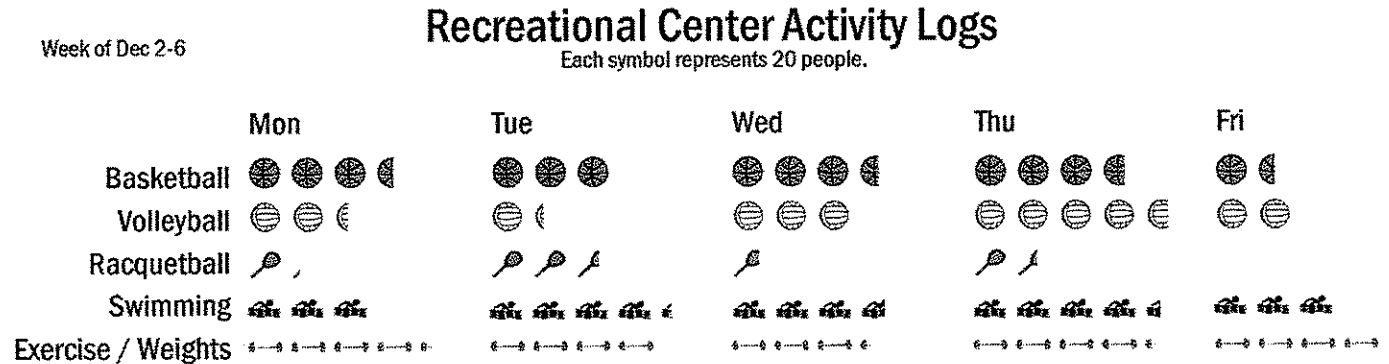MR = Mercury-Redstone   MA = Mercury-Atlas
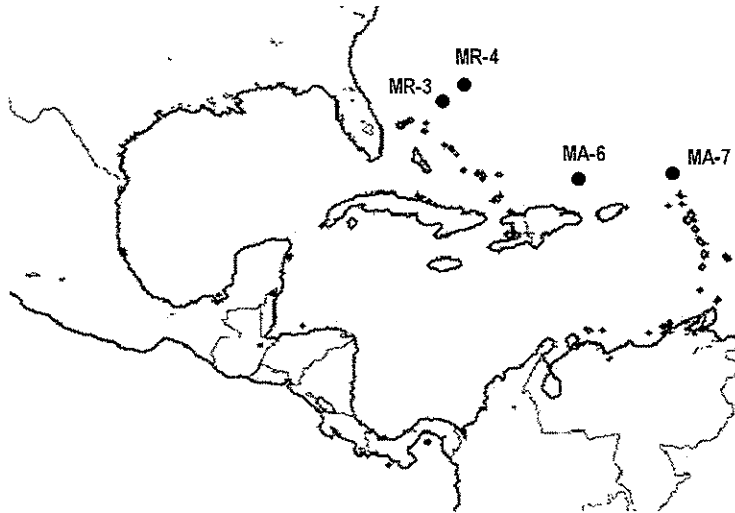
10.   What was the call-sign for the Mercury-Atlas 8 mission?
  A.   Aurora 7   **B.**   Liberty Bell 7
  C.   Faith 7   **D.**   Sigma 7

11.   Which mission had the lowest apogee?
  A.   Mercury-Redstone 3   **B.**   Mercury-Redstone 4
  C.   Mercury-Atlas 6   **D.**   Mercury-Atlas 9

12.   Who piloted Freedom 7?
  A.   Alan Shepard   **B.**   John Glenn
  C.   Wally Schirra   **D.**   Gus Grissom

13.   What time of day (local time from the launch point) did Aurora 7 splashdown?
  A.   12:51pm   **B.**   12:22pm
  C.   12:36pm   **D.**   12:41pm

14.   Which pilot landed in the Atlantic Ocean, just north of the Dominican Republic?
  A.   Scott Carpenter   **B.**   Alan Shepard
  C.   Wally Schirra   **D.**   John Glenn

15.   Which of the following statements about the manned flights of the Mercury program is not true?
   A.   The Mercury-Redstone program preceded the Mercury-Atlas program.
   B.   All manned Mercury-Redstone flights were "suborbital," meaning the spacecraft did not
        orbit the Earth before descending and landing.
   C.   Each Mercury mission was piloted by a different astronaut.
   D.   All manned Mercury missions were launched in the morning and landed in the morning.

Pictogram – Use the information in the pictogram from the Rec Center visitor's log to answer the
following questions.

Recreational Center Activity Logs

Week of Dec 2-6

Each symbol represents 20 people.

	Mon	Tue	Wed	Thu	Fri
Basketball	⚫⚫⚫◖	⚫⚫⚫	⚫⚫⚫◖	⚫⚫⚫◖	⚫◖
Volleyball	◯◯◖	◯◖	◯◯◯	◯◯◯◯◖	◯◯
Racquetball	🏸	🏸🏸🏸	🏸	🏸🏸	
Swimming	🏊🏊🏊	🏊🏊🏊🏊◖	🏊🏊🏊🏊	🏊🏊🏊🏊◖	🏊🏊🏊
Exercise / Weights	🏋🏋🏋🏋🏋	🏋🏋🏋🏋	🏋🏋🏋	🏋🏋🏋🏋	🏋🏋🏋

16.   How many people came to the Rec Center to play basketball on Tuesday of this week?
   A.   3   B.   30
   C.   6   D.   60

17.   What day of this week did more people come to the Rec Center to play volleyball than
      participate in any other activity?
   A.   Friday   B.   Thursday
   C.   Wednesday   D.   Monday

18.   Which activity did 84 people participate in on Tuesday of this week?
   A.   exercise / weights   B.   swimming
   C.   volleyball   D.   racquetball

19.   How many fewer people played basketball on Friday than lifted weights (or exercised)?
   A.   50   B.   40
   C.   60   D.   30

20.   Which day had half the number of people playing volleyball than who played it on Thursday?
   A.   Monday   B.   Tuesday
   C.   Wednesday   D.   Friday

21.   What day were the racquetball courts closed for cleaning and recoating?
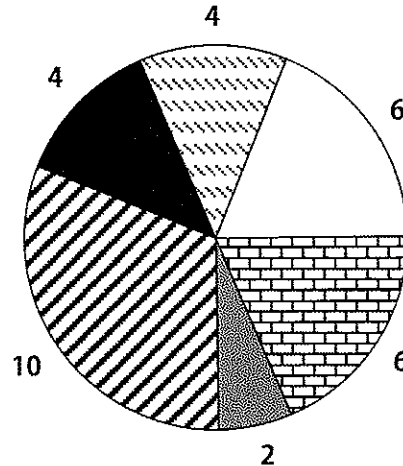   A.   December 6th   B.   December 4th
   C.   December 2nd   D.   December 3rd

22.   Which activity averages approximately 80 people per weekday?
    A.   basketball   **B.**   volleyball
    C.   racquetball   **D.**   exercise / weights

Pie Charts – Use the following pie charts to answer the questions about the Girls' Basketball Games.

Game 1 Points Scored
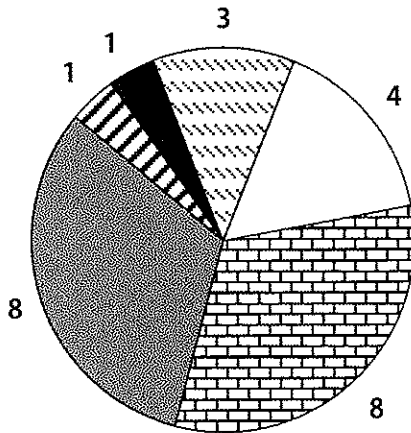
Game 2 Points Scored

□ **Emily**   ⊞ **Heather**   ▨ **Rebecca**

▧ **Alex**   ■ **Lisa**   ⦚ **Maria**

23.   Which player had 4 points in Game 1?
    A.   Maria   **B.**   Emily
    C.   Heather   **D.**   Lisa

24.   How many points did Rebecca have in total over both games?
    A.   6 points   **B.**   18 points
    C.   14 points   **D.**   10 points

25.   Which two players scored the same number of points in Game 2?
    A.   Maria and Lisa   **B.**   Alex and Lisa
    C.   Heather and Rebecca   **D.**   Rebecca and Emily

26.   How many players scored more points in Game 2 than in Game 1?
    A.   2   **B.**   3
    C.   4   **D.**   5

27.   Which player scored 25% less in Game 2 than in Game 1?
    A.   Alex   **B.**   Heather
    C.   Rebecca   **D.**   Emily

28. What percent of the team's points did Rebecca score in Game 1?
    A. 8%   B. 32%
    C. 16%   D. 40%

Bar Graph – Use the bar graph to answer the following questions.

College Algebra Exam Score Distribution
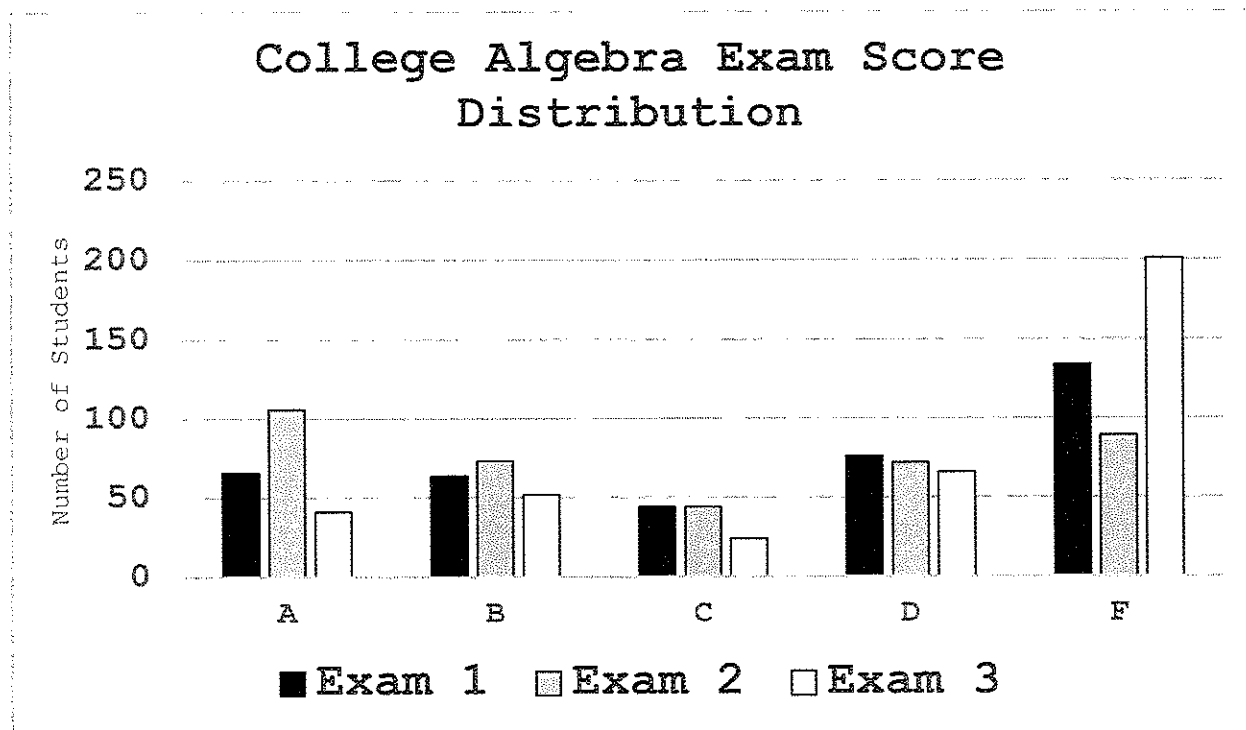
29. How many B's were scored on the second exam?
    A. 113   B. 93
    C. 73   D. 53

30. Which grade was earned by more students than any other on the second exam?
    A. A   B. B
    C. D   D. F

31. How many fewer B's were earned on the third exam than the first exam?
    A. About 70   B. About 50
    C. About 30   D. About 10

32. Approximately how many students are in this class?
    A. 380   B. 415
    C. 440   D. 475

33. What class/course does the chart show scores for?
    A. political science   B. American literature
    C. biology   D. college algebra

34.   Which of the following statements is correct?
       A.   Throughout the course, the number of students receiving B's increased.
       B.   More students earned A's than any other grade overall.
       C.   Throughout the course, fewer and fewer students received D's on their exams.
       D.   The same number of students scored C's for all three exams.

Atlas Questions – North and South America – Use the atlas to answer the following questions about North and South America.

35.   Which of the following ethnicities makes up about 3.1% of the population of Canada?
       A.   Scottish   B.   Ukrainian
       C.   East Indian   D.   French

36.   The Caratasca Lagoon is located off the coast of which country?
       A.   Panama   B.   Costa Rica
       C.   Honduras   D.   Venezuela

37.   What Mexican state is Hermosillo the capital of?
       A.   Coahuila   B.   Zacatecas
       C.   Chihuahua   D.   Sonora

38.   Which country is Chile's most important trade partner?
       A.   China   B.   United States
       C.   Japan   D.   European Union

39.   Which of the following cities averages 45 inches of rainfall per year?
       A.   Paramaribo, Suriname   B.   Regina, Saskatchewan, Canada
       C.   Colon, Panama   D.   Winston-Salem, North Carolina, USA

40.   In the Andes Mountains, what happens to the climate as the altitude increases?
       A.   It gets wetter and warmer.   B.   It gets wetter and colder.
       C.   It gets drier and warmer.   D.   It gets drier and colder.


Atlas Questions – The World – Use the atlas to answer the following questions about the world.

41.   Which of the following lakes is north of the Arctic Circle?
       A.   Lake Ladoga   B.   Lake Inari
       C.   Lake Vattern   D.   Lake Peipus

42.   What island is the current capital of Indonesia located on?
       A.   Sumatra   B.   Java
       C.   Sulawesi (Celebes)   D.   Borneo

43.   What is the most densely populated country in Europe?
       A.   Russia   B.   Monaco
       C.   Turkey   D.   Austria

44.   Which tectonic plate resides between the South American Plate and the Pacific Plate?
    A.   Australian Plate   **B.**   Philippine Plate
    C.   African (Nubian) Plate   **D.**   Nazca Plate

45.   What is the approximate population of all Africans, aged 30 to 34?
    A.   80 million   **B.**   100 million
    C.   20 million   **D.**   50 million

46.   What is the predominant religion of Mongolia?
    A.   Traditional or Folk   **B.**   Hinduism
    C.   Islam   **D.**   Buddhism

47.   Tahitians and Maori are classified under what major group of indigenous people in the South Pacific?
    A.   Micronesians   **B.**   Polynesians
    C.   Melanesians   **D.**   Aborigines

48.   Bislama, the official language of Vanuatuan people, is based on what language family?
    A.   Nilo-Saharan   **B.**   English creole
    C.   Sino-Tibetan   **D.**   Khoisan

49.   What metal is southeast Brazil known for producing?
    A.   silver   **B.**   copper
    C.   magnesium   **D.**   iron

50.   Due to the Syrian Civil War (2011-present), how many Syrians left their homeland and immigrated to Lebanon?
    A.   Approximately three million   **B.**   Approximately two million
    C.   Approximately one million   **D.**   Approximately one-half million

Geography Questions

51. What city is known as the "Gateway to the West" because of its
location and its famous arch?
   A.   Topeka, Kansas
   B.   Tulsa, Oklahoma
   C.   Des Moines, Iowa
   D.   St. Louis, Missouri

52. A *monotheism* is a religion that believes what?
   A.   There is only one God.
   B.   There is no God.
   C.   There is a spiritual connection between humans and nature.
   D.   There are multiple Gods.

53. In December 2019, a volcano erupted on White Island killing over a dozen people in what
nation?
   A.   Australia   B.   New Zealand
   C.   Japan   D.   Indonesia

54. Which of the Great Lakes is highest in elevation?
   A.   Lake Superior   B.   Lake Huron
   C.   Lake Erie   D.   Lake Ontario

55. Which of the following is a disadvantage of tourism in Latin America?
   A.   Tourists enjoy experiences that they might not otherwise have.
   B.   Tourism helps reduce the income gap between the wealthy and poor.
   C.   Resorts are built on previous pristine areas of land.
   D.   New businesses, including hotels and restaurants, are created in areas of high tourism.

56. Which of the following ancient civilizations were supported by the rivers in the Fertile
Crescent?
   A.   Incas   B.   Sumerians
   C.   Romans   D.   Vikings

57. What is the largest freshwater estuary in the United States?
   A.   Mission-Aransas Estuary   B.   Chesapeake Bay
   C.   San Francisco Bay   D.   Lake Pontchartrain

58. What is Greece's largest export product?
   A.   refined petroleum   B.   pure olive oil
   C.   cheese   D.   fish

59. What is the collective name for all parts of the Earth that contain water, including the oceans,
lakes, and water in the atmosphere?
   A.   biosphere   B.   lithosphere
   C.   hydrosphere   D.   asthenosphere
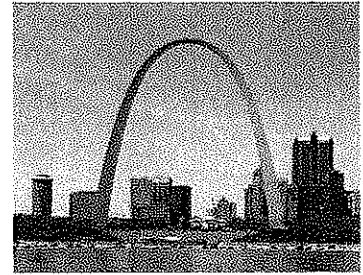
60.   Who founded the first French settlement at Québec City and served as the administrator for the
       city?
       A.   Jacques Cartier   **B.**   Samuel de Champlain
       C.   Louis Hennepin   **D.**   Robert de La Salle

61.   What name is given to September 22 or 23, when the sun's ray are directly over the equator?
       A.   vernal equinox   **B.**   autumnal equinox
       C.   summer solstice   **D.**   winter solstice

62.   From 1948 to 1994, South Africa implemented a system where people of different races were
       physically separated and had different legal statuses, among other differences. What was the
       name of this system?
       A.   apartheid   **B.**   ethnic cleansing
       C.   feudalism   **D.**   caste system

63.   Brabantian, spoken in Belgium and other places, is a dialect of what language?
       A.   French   **B.**   Flemish
       C.   German   **D.**   Dutch

64.   During the Chinese *Qingming Festival*, celebrants mark the occasion by performing what
       activity?
       A.   sacrificially killing a bear
       B.   picking flowers and giving them to loved ones
       C.   pruning trees in local parks
       D.   cleaning tombs of deceased relatives

65.   The southern part of the North European Plain in the Russian area south and west of the Ural
       Mountains is known for its rich, black soil used for growing grains. What is the name of this
       soil?
       A.   silt   **B.**   taiga
       C.   chernozem   **D.**   pavlova

66.   What group of Europeans was captured and forced into mandatory labor by central European
       groups, thus giving the root of the word that describes this practice?
       A.   Mongols   **B.**   Hungarians
       C.   Slavs   **D.**   Moors

67.   What type of government does Bahrain have?
       A.   communist party-led state   **B.**   presidential republic
       C.   constitutional monarchy   **D.**   parliamentary republic

68.   Which of the following is the least important use of the waterways in Southeast Asia?
       A.   food   **B.**   minerals
       C.   transportation   **D.**   communication

69.   What national currency would you use to buy a souvenir while visiting Bangalore?
       A.   rupee   **B.**   krona
       C.   euro   **D.**   dinar

70.   The Iroquois League represents one of the earliest forms of what in America?
      A.   socialized healthcare   B.   legal system
      C.   labor union   D.   democratic assembly

71.   What is the state fish of Texas?
      A.   blue catfish   B.   Guadalupe bass
      C.   bluegill   D.   Texas shiner

72.   Oxisol, mollisol, and vertisol are all types of what?
      A.   soils   B.   icebergs
      C.   seabeds   D.   thunderstorms

73.   On June 12, 1987, President Ronald Reagan gave a historic speech, challenging the leader of
      the Soviet Union to "tear down this wall." Which wall was President Reagan referring to?
      A.   The Great Wall of China   B.   The Berlin Wall
      C.   Hadrian's Wall   D.   The Antonine Wall

74.   Established in 1960, the Organization of Petroleum Exporting Countries (OPEC) originally
      consisted of four Persian Gulf countries and what oil-rich South American country?
      A.   Ecuador   B.   Brazil
      C.   Venezuela   D.   Colombia

75.   A situation created by the rotation of the Earth to the east where forces, winds, and other items
      in the Northern Hemisphere tend to steer to the right in known as what?
      A.   Coriolis effect   B.   El Niño
      C.   Lemon technique   D.   Zonda wind

CONTESTANT ID#:_____   GRADE LEVEL:_____

PSIA Maps, Graphs & Charts Contest – Grades 6, 7 & 8
ANSWER SHEET – DISTRICT 2020

INSTRUCTIONS: Place the CAPITAL letter of each answer choice (A, B, C, or D) in the blank corresponding to the test item number. **SCORING**: +5 for each correct answer; -2 for each incorrect answer; no deductions for skipped or unanswered items. Any mark on a space counts as an attempt.

1. _____	20. _____	39. _____	58. _____
2. _____	21. _____	40. _____	59. _____
3. _____	22. _____	41. _____	60. _____
4. _____	23. _____	42. _____	61. _____
5. _____	24. _____	43. _____	62. _____
6. _____	25. _____	44. _____	63. _____
7. _____	26. _____	45. _____	64. _____
8. _____	27. _____	46. _____	65. _____
9. _____	28. _____	47. _____	66. _____
10. _____	29. _____	48. _____	67. _____
11. _____	30. _____	49. _____	68. _____
12. _____	31. _____	50. _____	69. _____
13. _____	32. _____	51. _____	70. _____
14. _____	33. _____	52. _____	71. _____
15. _____	34. _____	53. _____	72. _____
16. _____	35. _____	54. _____	73. _____
17. _____	36. _____	55. _____	74. _____
18. _____	37. _____	56. _____	75. _____
19. _____	38. _____	57. _____	

Score: Initials

Grader 1: _____   _____

Grader 2: _____   _____

Grader 3: _____   _____

OFFICIAL SCORE:_____

Contest Director ONLY: AFTER being scored by at least 2 graders, place this answer sheet with the contestant's identified test paper, on which the Contestant ID label has been affixed.

PSIA Maps, Graphs & Charts Contest
Grades 6-8 – DISTRICT – 2020
ANSWER KEY

Page number references in parentheses are found only in the **2018** or **NEWER** editions of the *Nystrom Desk Atlas*. **Scoring:** +5 for each correct answer; -2 for each incorrect answer. No points are deducted for skipped or unanswered items. Deduct 2 points for erasures/mark-outs not resulting in a correct answer.

1.	C (93)	20.	A	39.	D (80)	58.	A
2.	D (95)	21.	A	40.	D (123)	59.	C
3.	C (88)	22.	D	41.	B (157)	60.	B
4.	D (86)	23.	B	42.	B (181)	61.	B
5.	A (101)	24.	D	43.	B (145)	62.	A
6.	A (84)	25.	A	44.	D (20)	63.	D
7.	D (76)	26.	C	45.	A (36)	64.	D
8.	B (83)	27.	B	46.	D (177)	65.	C
9.	B (75)	28.	B	47.	B (194)	66.	C
10.	D	29.	C	48.	B (205)	67.	C
11.	A	30.	A	49.	D (31)	68.	B
12.	A	31.	D	50.	C (48)	69.	A
13.	D	32.	A	51.	D	70.	D
14.	D (107)	33.	D	52.	A	71.	B
15.	D	34.	C	53.	B	72.	A
16.	D	35.	A (67)	54.	A	73.	B
17.	B	36.	C (107)	55.	C	74.	C
18.	B	37.	D (114)	56.	B	75.	A
19.	A	38.	A (124)	57.	B		