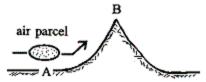
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Indicate the answer choice that best completes the statement or answers the question.

- 1. Two objects have the same temperature. Object A feels colder to the touch than object B. Which of the following properties may explain this difference between the two objects?
 - a. latent heat
 - b. thermal conductivity
 - c. specific heat
 - d. density
- 2. Which of the following regions of the spectrum represent the Earth's atmospheric window?
 - a. infrared region
 - b. polar regions
 - c. visible region
 - d. ultraviolet region
- 3. Which of the following terms refers to the change of state of ice into water vapour?
 - a. sublimation
 - b. condensation
 - c. crystallization
 - d. melting
- 4. Which of the following statements describes what would happen if the amount of energy lost each year by the Earth to space were not approximately equal to that received?
 - a. The sun's output would change.
 - b. The length of the year would change.
 - c. The atmosphere's average temperature would change.
 - d. The mass of the atmosphere would change.
- 5. Which of the following percentages represents the approximate combined albedo of the Earth and the atmosphere?
 - a. 50%
 - b. 30%
 - c. 10%
 - d. 4%
- 6. Which of the following terms refers to the amount of heat energy required to bring about a small change in temperature?
 - a. radiative equilibrium
 - b. dead heat
 - c. latent heat
 - d. specific heat
- 7. Which of the following defines the term *latent*?
 - a. hidden
 - b. dense

- c. light
- d. hot
- 8. As air in the figure below moves from A to B, what will happen to its volume?



- a. It will increase.
- b. It will decrease.
- c. It will decrease at first, and then increase.
- d. It will remain the same.
- 9. Which of the following terms refers to the luminous surface of the sun?
 - a. corona
 - b. photosphere
 - c. chromosphere
 - d. thermosphere
- 10. At which of the following temperatures does the Earth radiate energy at the greatest rate or intensity?
 - a. –40°C
 - b. 32°C
 - c. 60°C
 - d. 105°C
- 11. The albedo of the Earth's surface is about 4 percent, yet the combined albedo of the Earth and the atmosphere is about 30 percent. Which of the following conditions **BEST** explains why this is the case?
 - a. low albedo of clouds, low albedo of water
 - b. high albedo of clouds, low albedo of water
 - c. low albedo of clouds, high albedo of water
 - d. high albedo of clouds, high albedo of water
- 12. Which of the following terms refers to the change of state of water from a liquid to a vapour?
 - a. condensation
 - b. evaporation
 - c. freezing
 - d. sublimation
- 13. As you walk across a sandy beach on a summer day, the bottoms of your feet become extremely hot. This is an example of which type of heat transfer?
 - a. radiation
 - b. ultrasonic
 - c. conduction

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- d. convection
- 14. Of the following measurements, which is the longest?
 - a. 3000 micrometres
 - b. 25 mm
 - c. 2 cm
 - d. 10^{-3} m
- 15. In which of the following forms is most of the radiation emitted by the human body?
 - a. visible radiation, but too weak to be visible
 - b. invisible ultraviolet radiation
 - c. invisible gamma radiation
 - d. invisible infrared radiation
- 16. Why does an air parcel become cooler as it rises and expands?
 - a. The air pressure around the parcel increases as it rises.
 - b. As molecules push outward to expand the parcel the parcel loses energy.
 - c. Water vapour in the parcel evaporates as it rises.
 - d. The density of the air parcel decreases as it rises.
- 17. Which of the following processes occurs when rising air cools?
 - a. compression
 - b. condensation
 - c. evaporation
 - d. expansion
- 18. Which of the following is the poorest conductor of heat?
 - a. soil
 - b. water
 - c. snow
 - d. still air
- 19. City A is located on the shoreline of a large body of water. City B is located 100 km inland from the same body of water. In this scenario, which of the following statements is the most likely?
 - a. City A will have warmer temperatures in summer.
 - b. City B will have colder temperatures in winter.
 - c. The two cities will have similar temperatures only in summer.
 - d. The two cities will have similar temperatures in both summer and winter.
- 20. Which of the following statements explains why low clouds slow surface cooling at night better than clear skies do?
 - a. Clouds start convection currents among them.
 - b. Water droplets in the clouds reflect infrared energy back to the Earth.
 - c. Clouds absorb and radiate infrared energy back to the Earth.

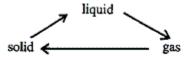
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- d. Clouds conduct heat better than clear night air does.
- 21. Suppose you are outside wearing a winter coat in very cold temperature, and the coat keeps you quite warm. Which of the following describes the reason that you keep warm?
 - a. The coat generates a temperature gradient between your body and the surrounding air.
 - b. The coat is the source of the heat that keeps you warm.
 - c. The coat absorbs heat from the sun.
 - d. The coat has insulating properties that keeps you warm.
- 22. Which of the following defines Earth's radiative equilibrium temperature?
 - a. the average temperature Earth must maintain to prevent the oceans from freezing solid
 - b. the temperature at which solar radiation and infrared radiation are absorbed at equal rates
 - c. the temperature at which the Earth radiates energy at maximum intensity
 - d. the temperature at which rates of evaporation and condensation on the Earth are in balance
- 23. As air in the figure above moves from A to B, what will happen to its temperature?
 - a. It will decrease.
 - b. It will decrease at first, and then increase.
 - c. It will increase.
 - d. It will remain the same.
- 24. Which of the following processes can occur when heat is transferred outward from the surface of the moon?
 - a. latent heat
 - b. convection
 - c. conduction
 - d. radiation
- 25. When you touch a wooden chair and a glass table top in the same room, the glass feels cooler. Why?
 - a. The chair is warmer.
 - b. Glass has a higher specific heat than wood.
 - c. Latent heat is being transferred from the glass to your skin.
 - d. Glass is a better conductor of heat than wood.
- 26. According to the Stefan-Boltzmann law, which of the following statements expresses the radiative energy emitted by one square metre of an object?
 - a. It is equal to a constant multiplied by its temperature, raised to the negative third power.
 - b. It is equal to a constant multiplied by its temperature, raised to the second power.
 - c. It is equal to a constant multiplied by its temperature, raised to the fourth power.
 - d. It is equal to a constant multiplied by its temperature, raised to the tenth power.
- 27. Which of the following is primarily known as a selective absorber of ultraviolet radiation?
 - a. water vapour
 - b. carbon dioxide
 - c. clouds

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d. ozone

- 28. Which of the following statements describes the difference between red and blue light?
 - a. Red and blue light have different directions of polarization.
 - b. The wavelength of red light is longer.
 - c. Blue light has a higher speed of propagation.
 - d. Red light has a higher intensity.
- 29. Referring to the figure below, how many of the phase changes release energy to the surroundings?



- a.
- b.
- all one
- c. d.
- none two
- 30. Which of the following is the range of wavelengths corresponding to the maximum amount of radiation emitted by the Earth?
 - a. 0.5 micrometre 10 micrometers
 - b. 1 micrometre 1 micrometer
 - c. 10 micrometres 30 micrometers
 - d. 30 micrometres 0.5 micrometers
- 31. Suppose the absolute temperature of an object doubles. By which of the following factors will the maximum energy emitted increase?

4

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- a. 16
- b.
- c. 2
- d.
- 32. How much radiant energy will an object emit if its temperature is at absolute zero?
 - a. none
 - b. the same as at any other temperature
 - c. It depends on the object's chemical composition
 - d. the maximum theoretical amount
- 33. Suppose last night was clear and calm and tonight there will be low clouds. Which of the following can be predicted about tonight's minimum temperature?
 - a. It will be higher than last night's minimum temperature.
 - b. It will be above freezing.
 - c. It will be the same as last night's minimum temperature.
 - d. It will be lower than last night's minimum temperature.

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34. Which of the	following proc	esses makes perspir	ation cool the body?	
a	• •	ve heat transfer	•	
b	. latent h	eat transfer		
c	. radiativ	e heat transfer		
đ	. conduct	ive heat transfer		
	•		mer chooses to sprinkle his sesses explains why this stra	fruit with water in order to warm the fruit ategy warms the fruit?
a.	-	t of evaporation	1 3	2.5
b.	latent hea	t of condensation		
c.	latent hea	t of evaporation		
d.	latent hea	t of deposition		
36. Which of the	following is th	e term often used to	describe the form of radiat	ion emitted by the sun?
	a.	microwave		
	b.	shortwave		
	c.	gamma		
	d.	longwave		
	~	rs to the main proces	ss that warms the lower atm surface	osphere?
b. re	lease of latent h	neat during condensa	ution	
c. ab	sorption of infr	ared radiation		
d. di	rect absorption	of sunlight by the at	mosphere	
38. Which of the	_		describe the form of radiat	ion emitted by the Earth?
	a.	shortwave		
	b.	longwave		
	c.	gamma		
	d.	microwave		
39. Which of the	following gase	es are mainly respons	sible for the atmospheric gr	reenhouse effect in the Earth's atmosphere?
a.	water vapour	r and carbon dioxide	;	-
b.	ozone and ox	xygen		
c.	nitrogen and	carbon dioxide		

a. Snow is a poor conductor of heat.

oxygen and nitrogen

- b. Snow is a poor reflector of heat.
- c. Snow is a poor radiator of heat.
- d. Snow has a low albedo.

d.

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41. Which of t	he following	g statements desc	cribes the radiative behaviour of clo	ouds?
a.		bsorb visible rad		
b.	They a	bsorb infrared ra	diation.	
c.	They a	bsorb gamma rad	diation.	
d.	They re	eflect ultraviolet	radiation.	
		zing. Which of th	e following processes cools the top	he tops of parked cars, even when the air s of the cars and causes this condition?
	a.		luction	
	b.	. conv	rection	
	c.	laten	t heat	
	d.	. radia	ntion	
a. Wb. Wc. W	rap it in alui rap it in blac rap it in alui	minum foil with ck paper. minum foil with	I keep an object cool even when it is the shiny side facing inward.	s exposed to direct sunlight?
d. Pu	t it in a brov	wn paper bag.		
44. Which of t	he following	g properties deter	rmines the kind (wavelength) and a	mount of radiation that an object emits?
	a.	temperature		
	b.	latent heat		
	c.	density		
	d.	thermal conduct	tivity	
45. Which of t	he following	g terms refers to	the heat transfer process in the atm	osphere that depends upon the movement of
	a.	cond	luction	
	b.	. abso	rption	
	c.	conv	rection	

radiation

- a. ultraviolet, visible, and infrared
- b. gamma rays

d.

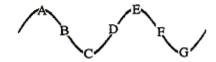
- c. X-rays
- d. microwave
- 47. One micrometre is equal to which of the following units of length?
 - a. one millionth of a metre
 - b. one thousandth of a metre
 - c. one hundredth of a metre
 - d. one tenth of a millimetre

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48. Which of the following gives the name for electromagnetic radiation that has wavelengths between 0.4 and 0.7 micrometres?

- a. visible light
- b. infrared light
- c. microwaves
- d. ultraviolet light

49. Which of the following expresses how far points A and C are apart?



- a. 1 wavelength apart
- b. 1/4 wavelength apart
- c. 1/3 wavelength apart
- d. 1/2 wavelength apart

50. Which of the following would happen to the Earth's radiative equilibrium temperature if the sun suddenly began emitting more energy?

- a. It would decrease.
- b. It would remain the same.
- c. It would increase.
- d. It would begin to oscillate.

51. Rain falling from clouds refers to which of the following forms of energy?

- a. kinetic
- b. potential
- c. latent heat
- d. radiant

52. Which of the following terms refers to the energy of motion?

- a. kinetic energy
- b. dynamic energy
- c. static energy
- d. sensible heat energy

53. On a warm summer day, what is the best colour of T-shirt to wear in order to best keep you cool?

- a. red
- b. blue
- c. black
- d. white

54. A good absorber of a given wavelength of radiation is also a good emitter of that wavelength. Which of the following

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principles does this statement refer to?

- a. first law of thermodynamics
- b. Wien's law
- c. Kirchhoff's law
- d. Stefan-Boltzmann's law
- 55. Which of the following changes in radiative equilibrium temperature accompanies an increase in albedo?
 - a. no change
 - b. unstable oscillations
 - c. an increase
 - d. a decrease
- 56. In which of the following regions of the spectrum does the sun emit its greatest intensity of radiation?
 - a. infrared region
 - b. visible region
 - c. ultraviolet region
 - d. X-ray region
- 57. If the Earth's average surface temperature were to increase, how would this affect the wavelength of peak emission?
 - a. It would shift toward shorter wavelengths.
 - b. It would shift toward longer wavelengths.
 - c. It would shift toward longer wavelengths at first, and then toward shorter wavelengths.
 - d. It would not change.
- 58. Which of the following statements describes the relation between low clouds at night and the atmospheric greenhouse effect?
 - a. They weaken the atmospheric greenhouse effect.
 - b. They are caused by the atmospheric greenhouse effect.
 - c. They enhance the atmospheric greenhouse effect.
 - d. They have no effect on the atmospheric greenhouse effect.
- 59. Two objects, A and B, have the same mass but the specific heat of A is larger than B. Which of the following scenarios is more likely if both objects absorb equal amounts of energy?
 - a. A will become warmer than B.
 - b. A will get warmer, but B will get colder.
 - c. Both A and B will warm at the same rate.
 - d. B will become warmer than A.
- 60. At which time does sunlight pass through a thicker portion of the atmosphere?
 - a. sunrise and sunset
 - b. sunset and night
 - c. noon and night
 - d. sunrise and noon

- 61. Referring to the figure above, which transfer of heat is being represented?
 - a. radiation
 - b. conduction
 - c. convection
 - d. scattering
- 62. Which of the following is the term for the heat transport that occurs when a hot air balloon is able to rise from a heat source below?
 - a. conduction
 - b. radiation
 - c. latent heat
 - d. convection
- 63. Which of the following statements is true about a black object?
 - a. It has a high albedo and is a poor absorber of visible radiation.
 - b. It has a high albedo and is a good absorber of visible radiation.
 - c. It has a low albedo and is a poor absorber of radiation.
 - d. It has a low albedo and is a good absorber of radiation.
- 64. Suppose the present concentration of CO₂ doubled in 100 years, and climate models predicted a 5°C increase in Earth's average temperature. Which of the following gases must also increase in concentration?
 - a. oxygen
 - b. nitrogen
 - c. methane
 - d. water vapour
- 65. Which of the following gives the main reason that the sky looks blue?
 - a. the scattering of sunlight by air molecules
 - b. the emission of blue light by the atmosphere
 - c. the absorption of blue light by the air
 - d. the presence of water vapour
- 66. Referring to the figure below, in which direction is energy being transported?



- a. upward at first, and then downward
- b. downward
- c. upward
- d. downward at first, and then upward
- 67. At which of the following wavelengths does the Earth emit radiation of greatest intensity? Copyright Cengage Learning. Powered by Cognero.

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- a. visible wavelengths
- b. ultraviolet wavelengths
- c. radio wavelengths
- d. infrared wavelengths
- 68. If the Earth's average surface temperature were to increase, what would happen to the amount of radiation emitted from the Earth's surface?
 - a. It would decrease.
 - b. It would remain stable.
 - c. It would increase.
 - d. It would decrease for a time, and then increase.
- 69. Which of the following statements explains why the albedo of the moon is 7 percent?
 - a. 7 percent of the sunlight striking the moon is absorbed.
 - b. 7 percent of the sunlight striking the moon is reflected.
 - c. Only 7 percent of the sun's energy absorbed by the moon is emitted back to space.
 - d. 93 percent of the sunlight striking the moon is reflected.
- 70. Which of the following has a wavelength shorter than that of violet light?
 - a. red light
 - b. green light
 - c. blue light
 - d. ultraviolet radiation
- 71. On a sunny day in winter when there is a large snowpack on the ground you notice it appears brighter outside than on a sunny day when there is no snow on the ground. What best explains this scenario?
 - a. Snow has a higher albedo than bare ground and reflects more solar radiation.
 - b. The sun emits more solar radiation in the winter months.
 - c. Snow emits more infrared radiation than bare ground.
 - d. The sun emits more ultraviolet radiation in the winter months.
- 72. Which of the following statements describes the radiative behaviour of a red shirt?
 - a. It selectively absorbs infrared wavelengths and scatters the rest.
 - b. It selectively scatters red wavelengths of visible light and absorbs the rest.
 - c. It selectively absorbs red wavelengths and scatters infrared wavelengths.
 - d. It selectively absorbs red wavelengths of visible light and scatters the rest.
- 73. Which of the following options gives the proper order for the types of radiation, from shortest to longest wavelength?
 - a. infrared, visible, ultraviolet
 - b. visible, infrared, ultraviolet
 - c. visible, ultraviolet, infrared
 - d. ultraviolet, visible, infrared
- 74. Which of the following is the range of wavelengths corresponding to the maximum amount of radiation emitted by the *Copyright Cengage Learning. Powered by Cognero.*Page 11

sun?

- a. 0.5 micrometre
- b. 1 micrometre
- c. 10 micrometres
- d. 30 micrometres
- 75. Which of the following processes explains why our skin feels colder immediately after stepping out of a hot tub?
 - a. latent heat of condensation
 - b. latent heat of fusion
 - c. latent heat of evaporation
 - d. latent heat of sublimation
- 76. Which of the following process is occurring when water droplets form on the outer surface of a glass of water?
 - a. latent heat of fusion
 - b. latent heat of evaporation
 - c. latent heat of fission
 - d. latent heat of condensation
- 77. Which of the following statements describes the roof of a home where snow melts readily?
 - a. It is a poor conductor of heat.
 - b. It is a good radiator of heat.
 - c. It is a poor radiator of heat.
 - d. It is a good conductor of heat.
- 78. Which of the following statements best describes why holes develop in snow around tree trunks?
 - a. Snow is a poor absorber of visible light.
 - b. Snow is a poor reflector of visible light.
 - c. Snow is a good absorber of infrared energy.
 - d. Snow is a good emitter of infrared energy.
- 79. Referring to the figure below, which of the following two energy transport processes are illustrated by the warm air rising?



- a. advection and latent heat energy transport
- b. convection and electromagnetic radiation
- c. convection and latent heat energy transport
- d. advection and electromagnetic radiation
- 80. Which of the following describes what always happens when air rises?

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	a.	It contr	acts and cools.			
	b.	It contr	racts and warms.			
	c.	It expa	nds and warms.			
	d.		nds and cools.			
81. Which	of the fol	lowing gase	es is NOT considere	d one that is responsible	for enhancing th	e Earth's greenhouse effect?
	a.	chlo	rofluorocarbons			
	b.	carbo	on dioxide			
	c.	mole	cular oxygen			
	d.	nitro	us oxide			
	hem from circulati release o conducti	becoming pon of heat before the latent head of heat to the latent head to heat the latent head head the latent head head head head head head head head	rogressively colder by the atmosphere ar	each year? nd oceans when polar ice melts of the Earth	erre of modulation	n in the course of a year, wha
83. Which		_	_	f hot food cools when it	is left on the table	e for a while?
	a.	by advecti				
	b.	by specific				
	c. d.	by radiation	neat energy release			
	a. It wb. It wc. It w	ill increase. ill decrease.	at first, and then inc	what will happen to its de	ensity?	
85. Which	of the fol	lowing proc	cesses occurs when s	sinking air warms?		
		a.	expansion			
		b.	compression			
		c.	friction			
		d.	condensation			

86. Which of the following is released as sensible heat during the formation of clouds?

a. shortwave radiation

b. longwave radiation

c. latent heat

d. potential energy

87. Which of the following descriptions applies to sunspots?

a. They are warmer regions on the sun's surface.

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- b. They are located in regions of strong magnetic fields.
- c. They reach a maximum size approximately every 15 years.
- d. They appear lighter than the rest of the sun's surface.
- 88. Which of the following describes the temperature of a rising air parcel?
 - a. It warms due to compression
 - b. It cools due to compression
 - c. It warms due to expansion
 - d. It cools due to expansion
- 89. Which of the following describes what the average Earth surface temperature would be without the atmospheric greenhouse effect?
 - a. higher than it is now
 - b. the same as it is now
 - c. much more variable than it is now
 - d. lower than at it is now
- 90. In defining heat, which of the following describes the direction of energy transfer?
 - a. from high pressure areas to low pressure areas
 - b. from cold objects to hot objects
 - c. from low pressure areas to high pressure areas
 - d. from hot objects to cold objects
- 91. According to Wien's displacement law, which of the following expressions describes the wavelength at which maximum radiation occurs?
 - a. The wavelength is inversely proportional to the temperature.
 - b. The wavelength is proportional to the pressure.
 - c. The wavelength is proportional to the temperature.
 - d. The wavelength is inversely proportional to the pressure.
- 92. Which of the following terms refers to the horizontal transport of any atmospheric property by the wind?
 - a. radiation
 - b. advection
 - c. redistribution
 - d. conduction
- 93. Which of the following describes how the atmospheric greenhouse effect is mainly produced?
 - a. Gases in the atmosphere absorb and re-emit ultraviolet radiation.
 - b. Clouds absorb and re-emit visible light.
 - c. Gases in the atmosphere absorb and re-emit infrared radiation.
 - d. Gases in the atmosphere absorb and re-emit visible light.

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- 94. Imagine that the temperature of the sun changed. Describe or discuss some of the effects that this might have on the Earth's energy budget and the Earth's climate.
- 95. If frost was predicted in a region of citrus crops why would it be advisable to sprinkle the crops with water before the expected frost?
- 96. Does a rising parcel of air always expand? Why? Does this expansion cause the air temperature to increase or decrease? Why?
- 97. Considering the Earth's annual energy balance, the Earth absorbs approximately 51 units of solar energy but emits 117 units of infrared energy. What prevents the Earth from getting colder and colder?
- 98. On a hot summer day what is the best type and colour of clothing to wear in order to keep cool? Justify your answer.
- 99. Describe and give examples of different ways that heat can be transported in the atmosphere.
- 100. In what ways is the atmospheric greenhouse different from an agricultural greenhouse?
- 101. On a sunny day in winter, why does it appear to be much brighter outside on a day when there is a snowpack on the ground as opposed to a sunny winter day with no snowpack?
- 102. Explain how energy in the form of sunlight absorbed at ground level can be transferred upward in the atmosphere in the form of latent heat. How or when is the latent heat energy released in the air above the ground?
- 103. Describe the atmospheric greenhouse effect. Is there any difference between the way the atmospheric greenhouse effect works on a clear night and on a cloudy night?
- 104. Several planets in our solar system are farther from the sun and cooler than the Earth. Do they emit electromagnetic radiation? Why are planets visible in the sky at night?
- 105. How does increased cloud cover cause an increase in the Earth's average surface temperature? How does increased cloudiness cause a decrease in average surface temperatures?
- 106. Explain how the specific heat of water can cause the climate of a coastal location to be much different than an inland location.
- 107. Many automobile engines are cooled by water that flows in a closed circuit through the engine block and the car's radiator. How many different heat transport processes do you find in operation here?
- 108. What are the other factors, besides increasing CO₂ concentrations, which affect global warming?
- 109. Many people will blow on a bowl of hot soup to try to cool it. In your view, what are the two most important processes of heat transport being used to cool the soup?
- 110. When you remove a cold beverage from a refrigerator in a humid room, water vapour condenses on the sides of the container. Does this condensation act to warm or cool the beverage, or does it have no effect on the beverage's temperature?

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Answer Key

- 1. b
- 2. a
- 3. a
- 4. c
- 5. b
- 6. d
- 7. a
- 8. a
- 9. b
- 10. d
- 11. b
- 12. b
- 13. c
- 14. a
- 15. d
- 16. b
- 17. d
- 18. d
- 19. b
- 20. c
- 21. a
- 22. b
- 23. a
- 24. d

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- 25. d
- 26. c
- 27. d
- 28. b
- 29. b
- 30. c
- 31. a
- 32. a
- 33. a
- 34. b
- 35. b
- 36. b
- 37. c
- 38. b
- 39. a
- 40. a
- 41. b
- $42.\;\mathsf{d}$
- 43. c
- 44. a
- 45. c
- 46. a
- 47. a
- 48. a
- 49. d

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- 50. c
- 51. a
- 52. a
- 53. d
- 54. c
- 55. d
- 56. b
- 57. a
- 58. c
- 59. d
- 60. a
- $61.\,c$
- $62.\,d$
- 63. d
- 64. d
- 65. a
- 66. c
- 67. d
- 68. c
- 69. b
- $70.\,\mathrm{d}$
- 71. a
- 72. b
- 73. d
- 74. a

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75. c			
76. d			
77. d			
78. c			
79. c			
80. d			
81. c			
82. a			
83. d			
84. b			
85. b			
86. c			
87. b			
88. d			
89. d			
90. d			
91. a			
92. b			
93. c			
94. Answers may vary.			
95. Answers may vary.			
96. Answers may vary.			
97. Answers may vary.			

98. Answers may vary.

99. Answers may vary.

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- 100. Answers may vary.
- 101. Answers may vary.
- 102. Answers may vary.
- 103. Answers may vary.
- 104. Answers may vary.
- 105. Answers may vary.
- 106. Answers may vary.
- 107. Answers may vary.
- 108. Answers may vary.
- 109. Answers may vary.
- 110. Answers may vary.