Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) For the equatior A) 4	n 6y - 20 = -2 , y equals B) - 3	C) -2	D) 3	E) 2	1)
Answer: D Diff: 0 Type: I	МС				
2) In the number 1 A) tens B) ones C) tenths D) hundredth E) thousandt Answer: D Diff: 0 Type: I	hs	place.			2)
TRUE/FALSE. Write 'T' if 3) Paracelsus was Answer: Tru Diff: 0 Type:	a Greek philosopher. e 🛛 🔮 False	and 'F' if the staten	nent is false.		3)
MULTIPLE CHOICE. Ch	oose the one alternativ	ve that best comple	tes the statement of	or answers the quest	tion.
A) go to profe	tle every day. /e learner.		d NOT		4)
SHORT ANSWER. Write	the word or phrase th	at best completes e	each statement or a	inswers the questior	۱.
5) A substance that	t always has the same o	composition and pr	operties is called a	(n) 5)	

Answer: chemical Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

6) Which of the following would NOT be part of a study plan to learn chemistry? 6) _____ A) skip your professor's office hours B) study a little every day C) form a study group D) read the chapter before class E) work the sample problems Answer: A Diff: 0 Type: MC 7) Written in scientific notation, 0.000 000 33 is 7) B) 3.3 × 10⁸. C) 3.3 × 10⁻⁸. D) 3.3 × 10⁻⁷. E) 3.3. A) 3.3 × 10⁷. Answer: D Diff: 0 Type: MC TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 8) Working with a group of students can help you learn chemistry. 8) ____ Answer: **O** True False Diff: 0 Type: TF SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 9) Express using scientific notation: 0.000 000 050 9) Answer: 5.0×10^{-8} Diff: 0 Type: SA MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 10) _____ 10) When a part of the body is injured, substances called ______ are released. A) chlorofluorocarbons B) pain relievers C) nitrogen oxides D) aspirins E) prostaglandins

Answer: E Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

 11) If -2x = 8, x is equal to 4.
 11)

 Answer: True
 ✓ False

 Diff: 0
 Type: TF

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

 12) The substances released when tissues are injured are _____.
 12) ______

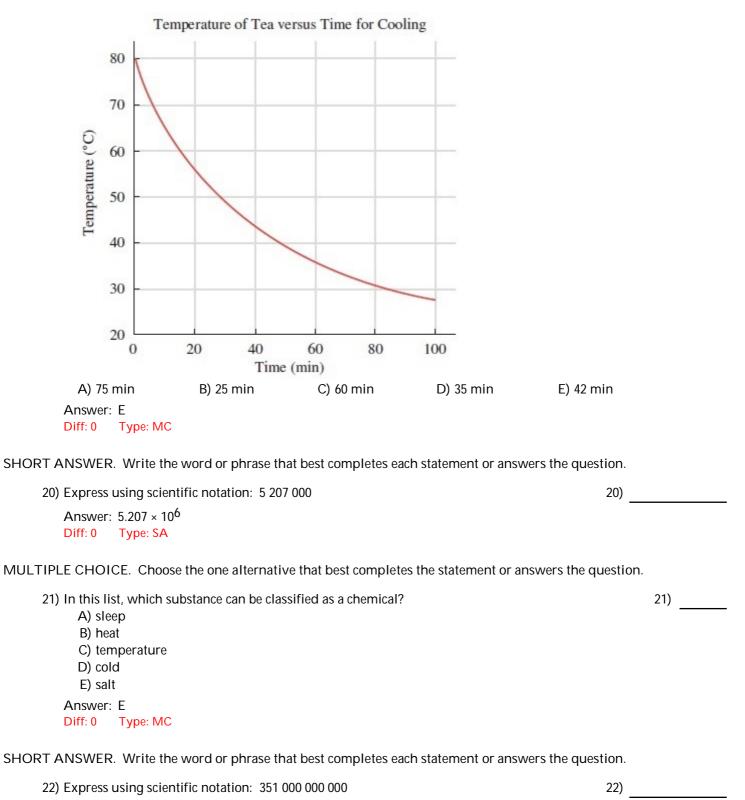
 Answer: prostaglandins
 12) _______

Diff: 0 Type: SA

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

13)	13) You notice that there is more traffic between 8:00 and 9:00 AM. This would be a(n)A) observation.B) hypothesis.C) conclusion/theory.D) experiment.				13)	
	Answer: A Diff: 0 Type: MC					
14)	Which of the followin A) heat	ig is a chemical? B) noise	C) light	D) sound	E) sugar	14)
	Answer: E Diff: 0 Type: MC					
15)	One example of a che A) carbon dioxide. B) sugar. C) calcium carbona D) chlorine. E) sulfur. Answer: C Diff: 0 Type: MC		aste is			15)
TRUE/FA	LSE. Write 'T' if the s	statement is true and	l 'F' if the sta	atement is false.		
16)	3.5×10^3 is equal to 35	500.				16)
	Answer: O True Diff: 0 Type: TF	False				
17)	If a negative number i	is divided by anothe	r negative n	umber, the answer will be a p	ositive number.	17)
	Answer: True Diff: 0 Type: TF	False				
MULTIPL	E CHOICE. Choose t	the one alternative t	hat best con	npletes the statement or answ	ers the question.	
18)	 Water, H₂O, is an exa A) chemical. B) element. C) type of energy. D) wave. E) electric charge. 	imple of a(n)				18)

Answer: A Diff: 0 Type: MC



Answer: 3.51×10^{11} Diff: 0 Type: SA

4

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

23)	12 is what percentage	of 36?				23)
	A) 3%	B) 330%	C) 30%	D) 12%	E) 33%	
	Answer: E Diff: 0 Type: MC					
24)	Which of the following	g is NOT a chemical?				24)
	A) light B) water C) carbon dioxide D) salt					
	E) sugar					
	Answer: A Diff: 0 Type: MC					
25)	The product of $(-4) \times A$	(-5) is B) -1	C) .1	D) -20	E) .20	25)
	Answer: E Diff: 0 Type: MC					
SHORT A	NSWER. Write the w	vord or phrase that be	est completes each st	atement or answers	the question.	
26)	Any material used in a Answer: chemical Diff: 0 Type: SA	or produced by a che	mical reaction is a(n)	·	26)	
	Diff. 0 Type. SA					
MULTIPL	E CHOICE. Choose t	he one alternative th	at best completes the	e statement or answe	ers the question.	
27)	In the number 12.345, A) tens B) ones C) tenths D) hundredths E) thousandths Answer: A Diff: 0 Type: MC	the 1 is in the	place.			27)
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.						
28)	You should always loo Answer: True Diff: 0 Type: TF	ok at the given answe False	er to a problem before	e you attempt to solve	e the problem.	28)
SHORT A	NSWER. Write the w	vord or phrase that be	est completes each st	atement or answers	the question.	
29)	The second step in the	e scientific method is t	to		29)	
	Answer: form a hypo Diff: 0 Type: SA	thesis				

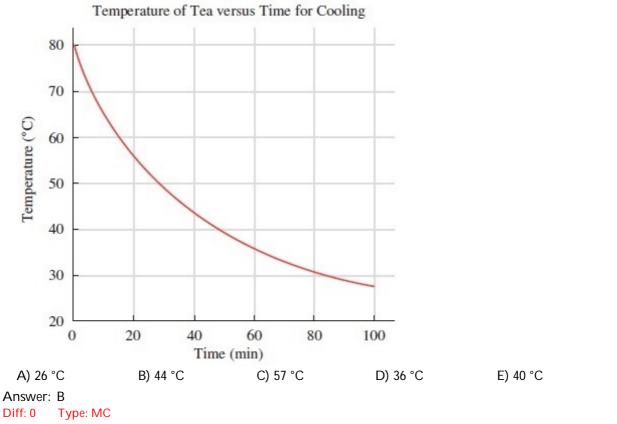
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

30) Titanium dioxide in toothpaste is used as a detergent.

False True Answer: Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

31) On the graph, what is the temperature after 40 minutes?



SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

32) Express using scientific notation: 0.000 860 32) Answer: 8.60 × 10⁻⁴ Diff: 0 Type: SA 33) 40 students complete the first semester chemistry course. If 32 students take the second 33) semester class, ____% are taking this class. Answer: 80 Diff: 0 Type: SA

30)

31)

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 34) Written in scientific notation, 540 000 is 34) A) 5.4 × 10⁻⁵. C) 54 × 10⁸. D) 0.54 × 10⁶. E) 5.4 × 10⁵. B) 5.4. Answer: E Diff: 0 Type: MC TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 35) When -7 is added to -5 the answer is 12. 35) False Answer: True Diff: 0 Type: TF SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 36) An abrasive used in toothpaste is _____. 36) Answer: calcium carbonate Diff: 0 Type: SA MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 37) Written in scientific notation, 8300 is 37) A) 8.3 × 10⁻³. B) 8.3 × 10³. C) 8.3 × 10⁻². D) 8.3 × 10⁴. E) 8.3 × 10². Answer: B Diff: 0 Type: MC TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 38) If one experiment is successful, your hypothesis becomes a scientific theory. 38) Answer: True False Diff: 0 Type: TF MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 39) _____ 39) Sodium fluorophosphate is a chemical used in toothpaste to A) remove plaque. B) keep the paste from spoiling. C) make the paste white. D) strengthen tooth enamel. E) disinfect the toothbrush. Answer: D Diff: 0 Type: MC 40) _____ 40) Titanium dioxide is a chemical used in toothpaste to A) keep the paste from spoiling. B) disinfect the toothbrush. C) strengthen tooth enamel. D) make the toothpaste white. E) remove plague. Answer: D Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

 41) Keeping a problem no Answer: True Diff: 0 Type: TF 	otebook will help y False	ou do well in you	r chemistry class.		41)	
MULTIPLE CHOICE. Choose t	he one alternative	that best complet	tes the statement or a	nswers the question.		
42) Written in scientific ne A) 4.03×10^{-6} . B) 0.403×10^{-5} . C) 4.03 . D) 4.03×10^{-7} . E) 4.03×10^{6} . Answer: A Diff: 0 Type: MC	otation, 0.000 004 0	3 is			42)	
SHORT ANSWER. Write the w	vord or phrase that	best completes e	ach statement or ansv	vers the question.		
43) In the number 45.678, Answer: tenths Diff: 0 Type: SA	the digit 6 is in the	e place.		43)		
44) The first step in the sc Answer: make observ Diff: 0 Type: SA		0		44)		
MULTIPLE CHOICE. Choose t	he one alternative	that best complet	tes the statement or ar	nswers the question.		
		•		·	45)	
45) 16 is what percentage A) 5% Answer: C Diff: 0 Type: MC	B) 2%	C) 20%	D) 200%	E) 50%	45)	
46) For the equation : -10 A) 4 Answer: E Diff: 0 Type: MC) - (-4) = B) -14	C) 14	D) 6	E) -6	46)	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.						
47) The chemical used to Answer: aluminum Diff: 0 Type: SA	make cans and foil	is		47)		
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.						
48) It is a good idea to wa Answer: True Diff: 0 Type: TF	it until the night be False	efore an exam to s	tart to study.		48)	

49) In the number 123.45, the digit 3 is in the ones place. 49) Answer: **2** True False Diff: 0 Type: TF MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 50) In the number 12.345, the 3 is in the _____ place. 50) A) tens B) ones C) tenths D) hundredths E) thousandths Answer: C Diff: 0 Type: MC TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 51) 51) Doing experiments to test your hypothesis is part of the scientific method. Answer: **O** True False Diff: 0 Type: TF MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 52) 52) For the equation 4x + 2 = 10, x equals A) 2 B) -2 C) 8 D) 3 E) 12 Answer: A Diff: 0 Type: MC TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false. 53) The first step in the scientific method is to draw a conclusion. 53) Answer: True Ealse Diff: 0 Type: TF 54) If 12 students in a class of 36 students got an "A" grade on the exam, 33% of the students earned an 54) "A". Answer: **2** True False Diff: 0 Type: TF MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 55) There is more traffic between 8:00 and 9:00 AM because most people start work at 9:00 AM. This 55) would be a(n) A) hypothesis. B) observation. C) experiment. D) conclusion/theory. Answer: A

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

56) Calcium carbonate is used to sweeten toothpaste.			
Answer: True Sealse Diff: 0 Type: TF			
57) 2.25×10^{-4} is equal to 22500.	57)		
Answer: True Sealse Diff: 0 Type: TF			
58) In the number 123.45, the digit 5 is in the hundreds place.	58)		
Answer: True Sealse Diff: 0 Type: TF			

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1) D
    Diff: 0
              Page Ref: 1.1
    Topic:
 2) D
    Diff: 0
              Page Ref: 1.1
    Topic:
3) FALSE
    Diff: 0
              Page Ref: 1.2
    Topic:
 4) B
    Diff: 0
              Page Ref: 1.1
    Topic:
5) chemical
    Diff: 0
              Page Ref: 1.1
    Topic:
6) A
    Diff: 0
              Page Ref: 1.1
    Topic:
 7) D
    Diff: 0
              Page Ref: 1.1
    Topic:
8) TRUE
    Diff: 0
              Page Ref: 1.3
    Topic:
9) 5.0 × 10<sup>-8</sup>
    Diff: 0
              Page Ref: 1.4
    Topic:
10) E
    Diff: 0
              Page Ref: 1.1
    Topic:
11) FALSE
    Diff: 0
              Page Ref: 1.4
    Topic:
12) prostaglandins
    Diff: 0
              Page Ref: 1.1
    Topic:
13) A
    Diff: 0
              Page Ref: 1.1
   Topic:
14) E
    Diff: 0
              Page Ref: 1.1
    Topic:
15) C
    Diff: 0
              Page Ref: 1.1
    Topic:
16) TRUE
    Diff: 0
              Page Ref: 1.4
    Topic:
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17) TRUE
               Page Ref: 1.4
    Diff: 0
    Topic:
18) A
    Diff: 0
               Page Ref: 1.1
    Topic:
19) E
               Page Ref: 1.1
    Diff: 0
    Topic:
20) 5.207 × 10<sup>6</sup>
               Page Ref: 1.4
    Diff: 0
    Topic:
21) E
    Diff: 0
               Page Ref: 1.1
    Topic:
22) 3.51 × 10<sup>11</sup>
               Page Ref: 1.4
    Diff: 0
    Topic:
23) E
    Diff: 0
               Page Ref: 1.1
    Topic:
24) A
    Diff: 0
               Page Ref: 1.1
    Topic:
25) E
    Diff: 0
               Page Ref: 1.1
    Topic:
26) chemical
               Page Ref: 1.1
    Diff: 0
    Topic:
27) A
    Diff: 0
               Page Ref: 1.1
    Topic:
28) FALSE
    Diff: 0
               Page Ref: 1.3
    Topic:
29) form a hypothesis
               Page Ref: 1.2
    Diff: 0
    Topic:
30) FALSE
    Diff: 0
               Page Ref: 1.1
    Topic:
31) B
    Diff: 0
               Page Ref: 1.1
    Topic:
32) 8.60 × 10<sup>-4</sup>
    Diff: 0
               Page Ref: 1.4
    Topic:
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33) 80 Diff: 0 Page Ref: 1.2 Topic: 34) E Diff: 0 Page Ref: 1.1 Topic: 35) FALSE Diff: 0 Page Ref: 1.4 Topic: 36) calcium carbonate Diff: 0 Page Ref: 1.1 Topic: 37) B Diff: 0 Page Ref: 1.1 Topic: 38) FALSE Diff: 0 Page Ref: 1.2 Topic: 39) D Diff: 0 Page Ref: 1.1 Topic: 40) D Diff: 0 Page Ref: 1.1 Topic: 41) TRUE Diff: 0 Page Ref: 1.3 Topic: 42) A Diff: 0 Page Ref: 1.1 Topic: 43) tenths Diff: 0 Page Ref: 1.2 Topic: 44) make observations Diff: 0 Page Ref: 1.2 Topic: 45) C Diff: 0 Page Ref: 1.1 Topic: 46) E Diff: 0 Page Ref: 1.1 Topic: 47) aluminum Page Ref: 1.1 Diff: 0 Topic: 48) FALSE Diff: 0 Page Ref: 1.3 Topic:

49) TRUE Diff: 0 Page Ref: 1.4 Topic: 50) C Diff: 0 Page Ref: 1.1 Topic: 51) TRUE Diff: 0 Page Ref: 1.2 Topic: 52) A Diff: 0 Page Ref: 1.1 Topic: 53) FALSE Diff: 0 Page Ref: 1.2 Topic: 54) TRUE Page Ref: 1.4 Diff: 0 Topic: 55) A Diff: 0 Page Ref: 1.1 Topic: 56) FALSE Diff: 0 Page Ref: 1.1 Topic: 57) FALSE Diff: 0 Page Ref: 1.4 Topic: 58) FALSE Diff: 0 Page Ref: 1.4 Topic: