Multiple Choice

1.1/7 + 5/9 =

a. 6/16
b. 35/63
c. 44/63
d. 9/35

ANSWER: c POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 12:41 AM

 DATE MODIFIED:
 2/5/2019 2:30 AM

2. $5/8 \times 7/9 =$

a. 12/17
b. 45/56
c. 12/72
d. 35/72

ANSWER: d POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice HAS VARIABLES: False

DATE CREATED: 2/4/2019 12:45 AM DATE MODIFIED: 2/5/2019 2:31 AM

 $3.1/6^{\frac{1}{4}}4/5 =$

a. 1/5 b. 4/11 c. 5/24 d. 4/30

ANSWER: c POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 12:50 AM

 DATE MODIFIED:
 2/5/2019 2:31 AM

4.46.3 + 29.87 =

e:

Chapter 01 - Basic Mathematics

a.	245
1	2.450

ANSWER: c POINTS: 1

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 2:21 AM

 DATE MODIFIED:
 2/5/2019 2:32 AM

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 2:23 AM

 DATE MODIFIED:
 2/5/2019 2:33 AM

С

1

ANSWER:
POINTS:

DIFFICULTY: Easy

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/4/2019 9:48 PM *DATE MODIFIED:* 2/5/2019 1:15 AM

7. Convert 7/12 to a decimal.

d. 84.00

ANSWER: a POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/4/2019 9:58 PM *DATE MODIFIED:* 2/5/2019 1:16 AM

8. Convert 87.3% to a decimal.

a. 0.0873
b. 0.873
c. 8.73
d. 87.3

ANSWER: b
POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:00 PM

 DATE MODIFIED:
 2/5/2019 1:16 AM

9. Change 23.46 to a percent.

a. 0.2346%b. 23.46%c. 2.346%d. 2,346%

ANSWER: d POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:12 PM

 DATE MODIFIED:
 2/28/2019 4:01 PM

10. The number of significant digits in 3.75 \times 10⁴ is

a. two.b. three.c. four.d. five.

ANSWER: b
POINTS: 1

Medium

e:

Chapter 01 - Basic Mathematics

DIFFICULTY:

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:15 PM

 DATE MODIFIED:
 2/5/2019 1:18 AM

11. The inverse of 0.137 is approximately

a. 1.37.
b. 7.30.
c. 73.
d. 137.

ANSWER: b
POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:17 PM

 DATE MODIFIED:
 2/5/2019 1:18 AM

12. Convert 540.7 to scientific notation.

a.
$$5.407 \times 10^2$$

b.
$$5.407 \times 10^{-2}$$

c.
$$5.407 \times 10^3$$

d.
$$5.407 \times 10^{-3}$$

ANSWER: b
POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:24 PM

 DATE MODIFIED:
 2/5/2019 1:19 AM

13. 2.63 $\times 10^{-2} =$

a. 0.00263
b. 0.0263
c. 26.3
d. 263

ANSWER: b POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:27 PM

 DATE MODIFIED:
 2/5/2019 1:19 AM

14. If you purchase four (4) twelve-packs of soda as a fundraiser for \$10.00 and sell each can of soda for 50 cents, your profit is

a. \$9.74.b. \$14.00.c. \$24.00.

d. \$34.00.

ANSWER: b
POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:29 PM

 DATE MODIFIED:
 2/5/2019 1:19 AM

15. Mercury (Hg), a metal, is liquid at room temperature. Its density is 13.6 g/cm³. If you have 100 mL of Hg, how many grams do you have?

a. 0.136

b. 1.36×10^{-3}

c. 136

d. 1.36×10^3

ANSWER: d POINTS: 1

DIFFICULTY: Difficult

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/4/2019 10:31 PM *DATE MODIFIED:* 2/5/2019 1:20 AM

16. Convert 113°F to °C.

a. 20.3°C
b. 62.8°C
c. 81°C
d. 235°C

ANSWER: b
POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:33 PM

 DATE MODIFIED:
 2/5/2019 1:20 AM

- 17. The equation $x^2 + 2xy + y^2$ can be expressed as:
 - a. $(x+y)^2$
 - b. 2x + 2y
 - $c. x + 2xy + y^2$
 - $d. x^2 + y^2 + xy$

ANSWER: a POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 2/4/2019 10:35 PM *DATE MODIFIED:* 2/5/2019 1:21 AM

- 18. Consider the following proportional relationship: x = ay/bd. Assuming all other quantities remain constant, what happens to the value of x when b increases?
 - a. increases
 - b. decreases
 - c. remains the same
 - d. cannot be determined

ANSWER: b
POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

 DATE CREATED:
 2/4/2019 10:36 PM

 DATE MODIFIED:
 2/5/2019 1:21 AM

- 19. Consider the following proportional relationship: x = ay/bd. Assuming all other quantities remain constant, what happens to the value of x when d decreases?
 - a. increases
 - b. decreases
 - c. remains the same
 - d. cannot be determined

ANSWER: a POINTS: 1

DIFFICULTY: Medium

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

Name			Class	Dat e:
<u>Chapter 01 -</u>	- Basic M	athematics	·	o
DATE CREA	ATED:		2/4/2019 10:39 F	PM
DATE MOD	IFIED:		2/5/2019 1:21 A	M
		ving proportional relationship: f x when the product of bd incr		er quantities remain constant, what
	a.	increases		
	b.	decreases		
	c.	remains the same		
	d.	cannot be determined		
ANSWER:			b	
POINTS:			1	
DIFFICULT	Y:		Medium	
QUESTION	TYPE:		Multiple Choice	
HAS VARIA	BLES:		False	
DATE CREA	ATED:		2/4/2019 10:40 F	PM
DATE MOD	IFIED:		2/5/2019 1:22 AM	M
Completion				
	equal to _	volts.		
ANSWER:			74,000)
POINTS:			1	
DIFFICULT	Y:		Easy	
QUESTION	TYPE:		Comp	pletion
HAS VARIA	BLES:		False	
STUDENT E	ENTRY N	MODE:	Basic	
DATE CREA	ATED:		2/5/20	019 9:11 PM
DATE MOD	IFIED:		2/5/20	019 9:13 PM
22. 400 mA i	s equal to	amp	eres.	
ANSWER:			0.40	
POINTS:			1	
DIFFICULT	Y:		Easy	
QUESTION	TYPE:		Comp	pletion
HAS VARIA	BLES:		False	
STUDENT E	ENTRY N	MODE:	Basic	
DATE CREA	ATED:		2/5/20	019 9:13 PM
DATE MOD	IFIED:		2/5/20	019 9:14 PM
23. 120,000 V	V is equal	to k	Vp.	
ANSWER:	_		120	

1

Easy

POINTS:

DIFFICULTY:

QUESTION TYPE: Completion

HAS VARIABLES:FalseSTUDENT ENTRY MODE:Basic

 DATE CREATED:
 2/5/2019 9:14 PM

 DATE MODIFIED:
 2/5/2019 9:14 PM

24. 3.7 m are equal to cm.

ANSWER: 370
POINTS: 1
DIFFICULTY: Easy

QUESTION TYPE: Completion

HAS VARIABLES:FalseSTUDENT ENTRY MODE:Basic

 DATE CREATED:
 2/5/2019 9:15 PM

 DATE MODIFIED:
 2/5/2019 9:15 PM

Problem

25. $1/R = 1/R_1 + 1/R_2$; solve for R_2 .

ANSWER: $RR_1/R_1 - R$

POINTS: 1

DIFFICULTY: Difficult

QUESTION TYPE: Numeric Response

HAS VARIABLES: False

 DATE CREATED:
 2/5/2019 9:17 PM

 DATE MODIFIED:
 2/5/2019 9:18 PM

26. $F = Gm_1m_2/r^2$; solve for m_1 .

ANSWER: Fr^2/Gm_2

POINTS: 1

DIFFICULTY: Difficult

QUESTION TYPE: Numeric Response

HAS VARIABLES: False

 DATE CREATED:
 2/5/2019 9:18 PM

 DATE MODIFIED:
 2/5/2019 9:19 PM

27. PV = nRT; solve for T.

ANSWER: PV/nR POINTS: 1

DIFFICULTY: Difficult

QUESTION TYPE: Numeric Response

HAS VARIABLES: False

Name Class Dat : e:

Chapter 01 - Basic Mathematics

 DATE CREATED:
 2/5/2019 9:19 PM

 DATE MODIFIED:
 2/5/2019 9:19 PM

28. I = E/R + r; solve for r.

ANSWER: E - IR/I

POINTS: 1

DIFFICULTY: Difficult

QUESTION TYPE: Numeric Response

HAS VARIABLES: False

 DATE CREATED:
 2/5/2019 9:20 PM

 DATE MODIFIED:
 2/5/2019 9:20 PM

29. P = 2L + 2W; solve for L.

ANSWER: (P-2W)/2

POINTS:

DIFFICULTY: Difficult

QUESTION TYPE: Numeric Response

HAS VARIABLES: False

 DATE CREATED:
 2/5/2019 9:20 PM

 DATE MODIFIED:
 2/5/2019 9:21 PM

30. V = $1/3^{\pi}$ r²h; solve for $^{\pi}$.

ANSWER: $3V/r^2h$

POINTS: 1

DIFFICULTY: Difficult

QUESTION TYPE: Numeric Response

HAS VARIABLES: False

 DATE CREATED:
 2/5/2019 9:21 PM

 DATE MODIFIED:
 2/18/2019 10:20 PM

31. $P_1V_1/T_1 = P_2V_2/T_2$; solve for V_2 .

ANSWER: $P_2V_2T_1/P_1V_1$

POINTS: 1

DIFFICULTY: Difficult

QUESTION TYPE: Numeric Response

HAS VARIABLES: False

 DATE CREATED:
 2/5/2019 9:22 PM

 DATE MODIFIED:
 2/5/2019 9:22 PM