PRAC ~ TIS Math ©

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MENU Grade 7

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Domain 1
Numbers and Operations

Math Preparation
Review

Domain 4
Measurement and Data

Domain 2
Proportionality

Domain 3
Expressions, Equations, Relationships

Domain 5
Personal Financial Literacy

Practice Units

	Item	Domain	CC Codes
1.	Division Practice Word Problems	1	7-NS.2C
2.	Finding Pentagons	1	7-NS.2
3.	Order of Operations	1	7-NS.1D; .2C
4.	Patterns Divide	1	7-NS.2C
5.	Patterns Multiply	1	7-NS.2C
6.	Rounding Division	1	7-NS.2C
7.	Add/Subtract (Pos. and Neg.)	1	7-NS.1D
8.	Add/Subtract (Pos. and Neg.) II	1	7-NS.1D
9.	Add/Subtract Mixed Numbers	1	7-NS.1D
10.	Division	1	7-NS.2C
11.	Division and Multiplication	1	7-NS.2C
12.	Division and Multiplication Horizontal	1	7-NS.2C
13.	Mixed Problems	1	7-NS-2C
14.	Multiply	1	7-NS.2C
15.	Numbers and Operations Exercises	1	7-NS.2, A, C; .3
16.	Products and Sales Math	1	7-NS.3
17.	Round/Estimate/Multiply	1	7-NS.2C
18.	Evaluate and Solve	1	7-EE.3
19.	Multiply Mixed Numbers/Fractions	1	7-NS.2
20.	Multiple Problems	1	7-NS.1D
21.	Stopping Distance	2	7-EE.3
22.	Calculating Rates of Change	2	7-RP.2, A, B, C
23.	Calculating Unit Rates	2	7-RP.2, .2C
24.	Constant of Proportionality	2	7-RP.2, .2C
25.	Constant Rates of Change	2	7-RP.3
26.	Proportional Measurements	2	7-EE.4
27.	Similar Figures	2	7-G.1
28.	Measuring Circles	2	7-G.4
29.	Scale Factors	2	7-G.1
30.	Calculating Probabilities	2	7-SP.7, .7A, .8B
31.	Probabilities	2	7-SP.7, .7A, .8B
32.	Predictions and Solutions	2	7-SP.6, .7, .8
33.	Calculating Probabilities II	2	7-SP.7, .7A, .8B

34.	Data Comparisons	2	7-RP.8C
35.	Dependent and Independent Relationships	3	7-EE.4, .4A
36.	Graphing in the First Quadrant	3	7-RP.2D
37.	Geometric Volume I	3	7-G.4, .6
38.	Geometric Volume II	3	7-G.4, .6
39.	Geometric Volume III	3	7-G.4, .6
40.	Area and Volume	3	7-G.6
41.	Circle Within a Square	3	7-G.4
42.	Dimensions of Circles	3	7-G.4
43.	Surface Area	3	7-G.4, .6
44.	Geometry	3	7-G.4, .6
45.	Perimeter and Area	3	7-EE.4A
46.	Commutative/Associative Properties	3	7-EE.1
47.	Commutative/Associative Properties II	3	7-EE.1
48.	Writing Equations	3	7-EE.3, .4, .4A
49.	Writing Equations II	3	7-EE.3, .4, .4A, .4B
50.	Solving and Writing Equations	3	7-EE.1, .2, .4
51.	Add/Subtract Unknowns	3	7-NS.1D
52.	Add/Subtract	3	7-NS.1D
53.	Add/Subtract/Solve	3	7-NS.1D
54.	Algebraic Expressions	3	7-EE.3
55.	Associative Properties	3	7-EE.1
56.	Evaluate and Simplify	3	7-EE.3
57.	Expressions/Powers/Equations	3	7-EE.3
58.	Finding Unknowns	3	7-EE.3
59.	Replacement Sets	3	7-NS.1D
60.	Solve Equations Division	3	7-EE.3
61.	Multiply and Add	3	7-EE.3
62.	Mixed Practice	3	7-EE.3
63.	Search and Solve	3	7-EE.3
64.	Solve Add/Subtract/Divide	3	7-EE.3
65.	Solve for Unknown	3	7-EE.3
66.	Word Problems Using Pos. and Neg.	3	7-EE.3, .4A
67.	Writing and Solving Equations	3	7-EE.4A
68.	Angles and Perimeter Measurements	3	7-G.5
69.	Angles and Perimeter Measurements II	3	7-G.5
70.	Sphere and Half Sphere	3	7-G.4, .6
71.	Box and Whisker Data Plotting	4	7-SP.3, .4
72.	Dot Plot Comparisons	4	7-SP.3, .4
73.	Proportional Reasoning	4	7-RP.3
74.	Earnings/Taxes/Discounts	5	7-RP.3
75.	Budgeting	5	7-NS.1, .2C; RP.3
76.	Assets, Liabilities and Net Worth	5	7-NS.1D, .2
77.	Interest Income	5	7-RP.2, .2C, .3
78.	Sales with Discounts/Rebates/Coupons	5	7-EE.2; RP.3

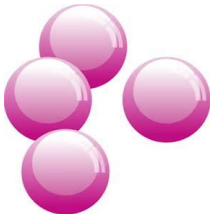
Grade 7 Sphere and Half Sphere

Practice Unit #70 from Menu

Name _____ **Date** _____

S/N 984

1. Jan has a bubble blowing machine. It can blow bubbles up to a diameter of 18 inches. However, Jan wants to blow a bubble that is 2 inches in diameter. (Round to the nearest tenth of an inch.)



What is the circumference of this bubble? _____

What is the surface area of the bubble? _____

What is the volume of air inside the bubble? _____

2. Jim collects different sized balls. He found a ball with a radius of 6 inches. (Round to the nearest tenth of an inch.)

What is the diameter of the ball he found? _____

What is the circumference of the ball he found? _____

What is the surface area of the ball he found? _____

What is the volume of air inside the ball? _____

3. Elizabeth bought a new mixing bowl in the shape of half a sphere with an inside rim diameter of 9 inches. (Round to the nearest tenth of an inch.)

What is the inside circumference of the bowl's rim? _____

What is the inside surface area of the bowl? _____

What is the inside volume of the bowl? _____

Grade 7 Sphere and Half Sphere

Practice Unit #70 from Menu

Teacher Key

S/N 984

Common Core 7-G.4
Domain 3

1.	**What is the circumference of this bubble?**	**6.3**	**inches**
	What is the surface area of the bubble?	**12.6**	**SQ inches**
	What is the volume of air inside the bubble?	**4.2**	**Cubic inches**

2.	**What is the diameter of the ball he found?**	**12.0**	**inches**
	What is the circumference of the ball he found?	**37.7**	**inches**
	What is the surface area of the ball he found?	**452.4**	**SQ inches**
	What is the volume of air inside the ball?	**904.8**	**Cubic inches**

3.	**What is the inside circumference of the bowl's rim?**	**28.3**	**inches**
	What is the inside surface area of the bowl?	**127.2**	**SQ inches**
	What is the inside volume of the bowl?	**190.9**	**Cubic inches**

Grade 7

Domain 3
Expressions, Equations and Relationships
Teacher Key

S/N 1656

Page Number	Unit Number	Answer	Domain	CC Codes
1.	1.	(D)	3	7-G.6
2.	2.	(A)	3	7-G.6
2.	3.	(B)	3	7-G6
3.	4.	(C)	3	7-G.4
4.	5.	(C)	3	7-G.6
5.	6.	(C)	3	7-G.5
6.	7.	(A)	3	7-G.6
7.	8.	(A)	3	7-G.4
8.	9.	(A)	3	7-EE.4
8.	10.	(C)	3	7-EE.4A
9.	11.	(A)	3	7-G.4
10.	12.	(B)	3	7-G.4,.6
11.	13.	(D)	3	7-G.4
12.	14.	(C)	3	7-G.6

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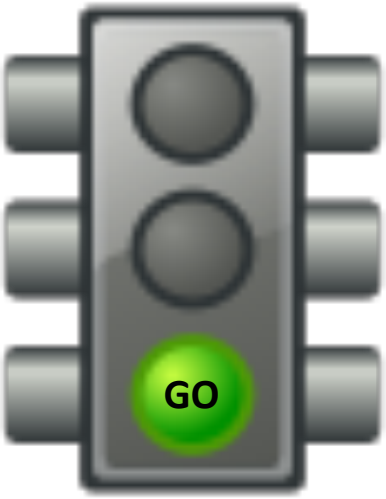

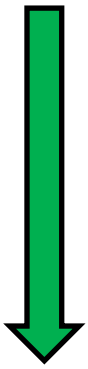

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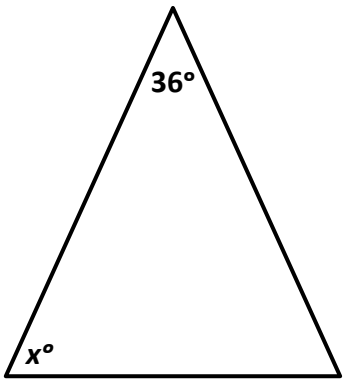
6. The diagram below shows two measures in an isoscelese triangle.



Which equation can be used to find the value of *x* ?

A. 2(36) + x = 180

B. 36 + 2x = 360

C. 36 + 2x = 180

D. 2(36) - x = 180

A B C D

Grade 7 Math Preparation Review

Teacher Key

S/N 8455

Page Number	Unit Number	Answer	Domain	CC Codes
21.	30.	(C)	4	7-SP.3
21.	31.	(D)	2	7-NS.1D; 7-NS.2C; 7-EE.4
22.	32.	(A)	3	7-G.4
23.	33.	(C)	3	7-G.6
23.	34.	(B)	2	7-NS.2C; 7-RP.3
24.	35.	(A)	3	7-G.4,.6
25.	36.	(B)	3	7-EE.4A
25.	37.	(B)	2	7-NS.1
26.	38.	(C)	3	7-G.4
27.	39.	(D)	1	7-RP.2C
27.	40.	(B)	3	7-G.6
28.	41.	(D)	5	IS.1D; 7-NS
28.	42.	(D)	1	7-RP.3
29.	43.	(C)	2	7-RP.3
29.	44.	(D)	1	7-NS.1D
30.	45.	(C)	1	7-NS.1
30.	46.	(B)	4	7-SP.3
31.	47.	(D)	4	7-NS.2C
32.	48.	(C)	5	7-RP.3
33.	49.	(C)	5	7-NS.1D
34.	50.	(C)	2	7-SP.8A,B

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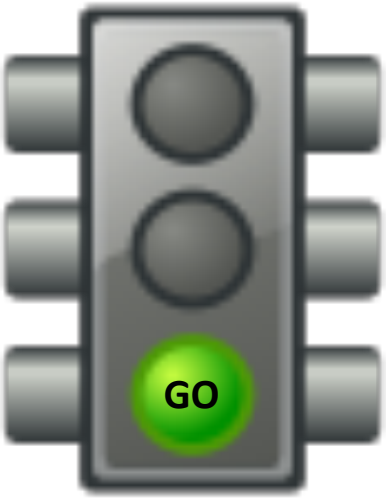
Date : _____

Student Name : _____



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S/N 8455

Continue

45. Oscar had 4 spools of wire. Each spool had 10 2/3 yards of wire. Oscar used 4 yards of wire from each spool. How many yards of wire were left on the spools?

A. 26 1/2

B. 26 6/7

C. 26 2/3

D. 27 1/6

A ○ B ○ C ○ D ○

46. Crop yields from a local farm are shown in the chart below.

Crop Yields in Bushels

Year	Corn	Beets	Squash	Peppers	Tomatos
2014	44	20	49	47	35
2015	29	48	43	28	24

What is the percentage of difference in corn crop yields between the two years?

A. 39.1%

B. 34.1%

C. 44.1%

D. 49.1%

A ○ B ○ C ○ D ○

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