PRAC ~ TIS Math ©

MENU GRADE 5

Math Preparation Review

Domain 1 Numbers and Operations	Domain 2 Algebraic Reasoning

Domain 3 Geometry and Measurement	Domain 4 Data Analysis	Domain 5 Personal Finance

Practice Units
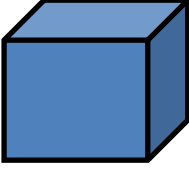
	Item	Domain	TEKS
1.	Writing and Solving Equations	1	5.1a, b
2.	Finding Pentagons	1	5.1b
3.	Whole Numbers/Fractions/Decimals	1	5.1b; 5.3j
4.	Associative Property	1	5.1c
5.	Expanded Notation	1	5.2a
6.	Comparing Decimal Numbers	1	5.2b
7.	Order of Operations	1	5.2c; 5.4e, f
8.	Estimation Word Problems	1	5.3a
9.	Rounding/Estimating	1	5.3a
10.	Division /Multiplication Practice (Horizontal)	1	5.3a, b, c
11.	Patterns (Multiply)	1	5.3b
12.	Customary Measurement Word Problems	1	5.3b, c
13.	Products and Sales Math	1	5.3b, c
14.	Division Practice	1	5.3c
15.	Multiple Problems	1	5.3c
16.	Division Practice Word Problems	1	5.3c
17.	Multiply Decimal Numbers	1	5.3d
18.	Multiplying Whole Numbers By Decimals	1	5.3e
19.	Division of Decimals	1	5.3f; 5.7a
20.	Add or Subtract Fractions	1	5.3h
21.	Compare Fractions	1	5.3h
22.	Dividing by Unit Fractios	1	5.3l
23.	Finding Unknowns	1	5.3k
24.	Mixed Practice 2	1	5.3k; 5.2c; 5.1b
25.	Prime and Composite Numbers	2	5.4a
26.	Solve for Unknown (Add/Subtract)	2	5.4b
27.	Search and Solve	2	5.4b; 5.1a, b
28.	Evaluate and Simplify	2	5.4b
29.	Solve (Add, Subtract, Divide)	2	5.4b
30.	Commutative/Associative Properties	2	5.4b, f
31.	Ordered Pairs and Rules	2	5.4c, d
32.	Commutative /Associative Properties II	2	5.4e, f

Volume of Cubes
Practice Unit #39 from Menu

Name: **Date:**

Legend

H   Volume(V) = Length(L) x Width(W) x Height(H)

Volume(V) = Area of Base(B) x Height(H)

W   Volume(V) = Side(S) x Side(S) x Side(S): V = S³

L

1   There are 4 cubes in a row. This is called the length. You place another
3 rows of 4 cubes behind the first row.
How many rows do you have now?   _____

You place 3 rows of 4 cubes on top of the cubes you presently have.
This is called the height.
How many rows do you have?   _____

How many total cubes do you have?   _____

2.   How many cubes are there when the length is 9 cubes, the width
is 9 cubes, and the height is 7 cubes?

_____

3.   The base of a rectangular prism has 21 cubes and has a height of 5 rows.
How many cubes are there?

_____

4.   A cube has 2 rows of 2 blocks and is 2 rows high. How many blocks
are in the cube?

_____

5.   A storage container has a length of 18 feet, a width of 10 feet, and a
height of 8 feet.
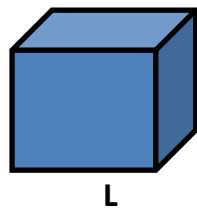 What is the volume of the container?   _____

The container is filled with boxes having sides that measure 3 feet each.
What is the volume of one box?

_____

How many whole boxes will the container hold?

_____

Volume of Cubes

Teacher Key

TEKS 5.6a, b; 5.4g
Domain 3

Legend

H   Volume(V) = Length(L) x Width(W) x Height(H)

Volume(V) = Area of Base(B) x Height(H)

W   Volume(V) = Side(S) x Side(S) x Side(S): V = S³

L

---

1   There are 4 cubes in a row. This is called the length. You place another 3 rows of 4 cubes behind the first row.
How many rows do you have now?   **4**

This is called the width.

You place 3 rows of 4 cubes on top of the cubes you presently have. This is called the height.
How many rows do you have?   **16**

How many total cubes do you have?   **64**

2.   How many cubes are there when the length is 9 cubes, the width is 9 cubes, and the height is 7 cubes?

567

3.   The base of a rectangular prism has 21 cubes and has a height of 5 rows. How many cubes are there?

105

4.   A cube has 2 rows of 2 blocks and is 2 rows high. How many blocks are in the cube?

8

5.   A storage container has a length of 18 feet, a width of 10 feet, and a height of 8 feet.
 What is the volume of the container?   **1,440 cubic feet**

The container is filled with boxes having sides that measure 3 feet each. What is the volume of one box?

27 cubic feet

How many whole boxes will the container hold?

53

Page No.	Item No.	Answer	Domain	TX Codes
1.	1.	(D)	3	5.7a
2.	2.	(B)	3	5.8a,b,c
3.	3.	(B)	3	5.8a
4.	4.	(C)	3	5.8a
5.	5.	(D)	3	5.7a
5.	6.	(B)	3	5.7a
5.	7.	(C)	3	5.7a
6.	8.	(B)	3	5.7a
6.	9.	(D)	3	5.7a
6.	10	(C)	3	5.7a

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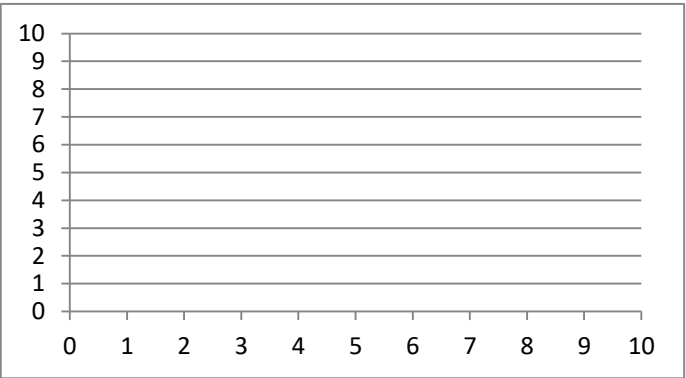
Date: _____

Student Name: _____

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Continue

3. Which answer has the set of points that are parallel to the *x* axis in the graph shown below?

A	(2,2) (8,3)
B	(3,3) (7,3)
C	(2,5) (2,9)
D	(5,9) (9,5)

A   B   C   D
◯   ◯   ◯   ◯

ContInue

8.   The distance from Cincinnati OH to Orlando FL is 900 miles. At an average
      speed of 60 miles per hour, how many hours and minutes will it take to drive
      to Orlando from Cincinnati?

              A   14 hours

              B   15 hours

              C   14 hours and 50 minutes

              D   15 hours and 50 minutes

              A   B   C   D
              O   O   O   O

9.   If you walked 5.7 miles in a day, how many feet did you walk?

              A   30,086 feet
              B   30,106 feet
              C   30,156 feet
              D   30,096 feet

              A   B   C   D
              O   O   O   O

10.   The length of a swimming pool is 50 meters. How many laps of the pool must you
      swim in order to complete 3.5 kilometers?

              A   80 laps
              B   90 laps
              C   70 laps
              D   65 laps

              A   B   C   D
              O   O   O   O

Continue

S/N 9529   **Teacher Answer Key**

(Part I)

Page No.	Item No.	Answer	Domain	TX Codes
1.	1.	(B)	4	5.9b
2.	2.	(C)	1	5.3d
2.	3.	(D)	1	5.3e
3.	4.	(B)	1	5.3h
3.	5.	(C)	2	5.4h
4.	6.	(C)	2	5.5a,k
5.	7.	(A)	1	5.3g
5.	8.	(A)	1	5.3k
6.	9.	(A)	1	5.3j,l
6.	10.	(A)	2	5.4b
7.	11.	(B)	5	5.10a
7.	12.	(D)	5	5.10a
8.	13.	(C)	4	5.9c
9.	14.	(A)	2	5.4h
9.	15.	(A)	2	5.4h
10.	16.	(A)	1	5.2a
10.	17.	(A)	1	5.2b
11.	18.	(C)	2	5.4d,e
11.	19.	(B)	2	5.4a
12.	20.	(D)	1	5.3i
12.	21.	(B)	5	5.10a
13.	22.	(C)	5	5.10f
13.	23.	(D)	2	5.4h
14.	24.	(B)	4	5.9c
15.	25.	(A)	1	5.3a
16.	26.	(D)	2	5.4h
17.	27.	(A)	4	5.9a

Print today's date and your name below.

Date: _____

Student Name: _____

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S/N 9529

C o n t i n u e

20.   Weather delayed 1/6 of the flights departing from an airport. All the
       departing flights are listed in the chart.

Departing Flights

Flight #05	Flight #221	Flight #98	Flight #83
Flight #121	Flight #122	Flight #576	Flight #64
Flight #21	Flight #654	Flight #65	Flight #161
Flight #71	Flight #27	Flight #413	Flight #611
Flight #32	Flight #68	Flight #765	Flight #767
Flight #56	Flight #932	Flight #881	Flight #944

How many departing flights were delayed by weather?

A 14 Flights
B 10 Flights
C 12 Flights
D 4 Flights

A   B   C   D
O   O   O   O

21.   Your annual salary is $28,000. Income taxes are deducted from your salary at the
       rate of $20 for each $100 you earn. How much is deducted for income tax annually?

A $5,820
B $5,600
C $5,622
D $5,578

A   B   C   D
O   O   O   O

Continue

22.   Your monthly budget is shown in this chart. You have two part time jobs and
       get two pay checks each month.

Income		Expenses	
Paycheck one…………	$1,300	House payment ……	$850
Paycheck two…………	$1,200	Car Payment ………..	$345
		Utilities ………………….	$295
		Groceries ……………..	$300
		Gasoline ………………	$225
		Insurance ……………..	$175
		Savings …………………	????

For a balanced budget which of the amounts below would be shown for savings in the chart?

A $410
B $285
C $310
D $260

A   B   C   D
◯   ◯   ◯   ◯

23.   An office building has 14 rooms that each have a floor space of 770 square feet
       and 5 rooms that each have a floor space of 900 square feet. What is the total
       floor space of these rooms?

A   10,780 square feet
B   4,500 square feet
C   1,670 square feet
D   15,280 square feet

A   B   C   D
◯   ◯   ◯   ◯