PRAC ~ TIS Math ©

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Domain 1 Numbers and Operations	Math Preparation Review	Domain 2 Proportionality
Domain 3 Expressions, Equations and Relationships	Domain 4 Shapes, Measurement and Data	Domain 5 Personal Finance

Practice Units

	Item	Domain	TEKS
1.	Perimeter and Area	1	8.1c
2.	Identifying Number Relationships	1	8.2a
3.	Irrational Numbers	1	8.2b
4.	Scientific/Standard Notations	1	8.2c
5.	Sorting Data	1	8.2d
6.	Calculating Proportions	2	8.3a
7.	Calculating Proportions II	2	8.3a
8.	Slope and Right Triangles	2	8.4a
9.	Proportional Relationships	2	8.4b
10.	Slope, 'y Intercept and Equations	2	8.4c
11.	Constants of Proportionality	2	8.5e
12.	Constants of Proportionality II	2	8.5a
13.	Linear and Non Linear Proportions	2	8.5b
14.	Linear/Non Linear Data	2	8.5c
15.	Plotting Trend Lines	2	8.5d
16.	Identifying Function/Non Function	2	8.5g
17.	Proportional /Non Proportional functions	2	8.5f, h
18.	Graphing Linear Relationships I	2	8.5i
19.	Graphing Linear Relationships II	2	8.5i
20.	Graphing Linear Relationships III	2	8.5i
21.	Graphing Linear Relationships IV	2	8.5i
22.	Graphing Linear Relationships V	2	8.5i
23.	Graphing Linear Relationships VI	2	8.5i
24.	Graphing Linear Relationships VII	2	8.5i
25.	Applying the Pythagorean Theorem	3	8.6c; 8.7c
26.	Applying the Pythagorean Theorem II	3	8.7c
27.	Sphere and Half Sphere	3	8.7a
28.	Geometric Volume I	3	8.7a; 8.6a
29.	Geometric Volume II	3	8.7a; 8.6b
30.	Geometric Volume III	3	8.7a, b; 8.6a
31.	Surface Area	3	8.7a
32.	Calculating Distance on a Coordinate Plane	3	8.7d
33.	Add, Subtract, Solve	3	8.8; 8.1c

34.	**Add, Subtract Unknowns**	**3**	**8.8; 8.1c**
35.	**Associative Property**	**3**	**8.8; 8.1c**
36.	**Evaluate and Simplify**	**3**	**8.8; 8.1c**
37.	**Evaluate and Solve**	**3**	**8.8; 8.1c**
38.	**Finding Unknowns**	**3**	**8.8; 8.1c**
39.	**Mixed Practice**	**3**	**8.8; 8.1c**
40.	**Multiply and Add**	**3**	**8.8; 8.1c**
41.	**Simplify and Evaluate**	**3**	**8.8; 8.1c**
42.	**Solve Add, Subtract, Divide**	**3**	**8.8; 8.1c**
43.	**Solve Equations Division**	**3**	**8.8; 8.1c**
44.	**Solve for Unknown**	**3**	**8.8; 8.1c**
45.	**Solve Equations With One Variable**	**3**	**8.8a**
46.	**One Variable Equations**	**3**	**8.8a, b, c**
47.	**Stopping Distance**	**3**	**8.8b; 8.1a, h**
48.	**Angle Sums**	**3**	**8.8d**
49.	**Angle Sums II**	**3**	**8.8d**
50.	**Intersecting Lines**	**3**	**8.9a**
51.	**Graphing Dilations**	**4**	**8.10a**
52.	**Graphing Reflections**	**4**	**8.10a, b, c**
53.	**Graphing Rotations**	**4**	**8.10a, b, c**
54.	**Graphing Translations**	**4**	**8.10a, b, c**
55.	**Dilation of Shapes**	**4**	**8.10d**
56.	**Dilation of Shapes II**	**4**	**8.10d; 8.3b, c**
57.	**Trends and Correlations**	**4**	**8.11a**
58.	**Trends and Correlations II**	**4**	**8.11a**
59.	**Interpreting Data**	**4**	**8.11b**
60.	**Random Sampling**	**4**	**8.11c**
61.	**Loans and Interest**	**5**	**8.12a**
62.	**Credit Card Interest**	**5**	**8.12b**
63.	**Investing/Saving**	**5**	**8.12c**
64.	**Simple/Compound Interest**	**5**	**8.12d**
65.	**Payment Options**	**5**	**8.12e**
66.	**Interpreting Cost Comparisons**	**5**	**8.12f**
67.	**Estimating College Costs**	**5**	**8.12g**

Grade 8

Domain 4
Shapes, Measurement and Data
Teacher Key

S/N 473

Page Number	Unit Number	Answer	Domain	TX Codes
1.	1.	(A)	4	8.11b
1.	2.	(B)	4	8.10b
2.	3.	(D)	4	8.10c

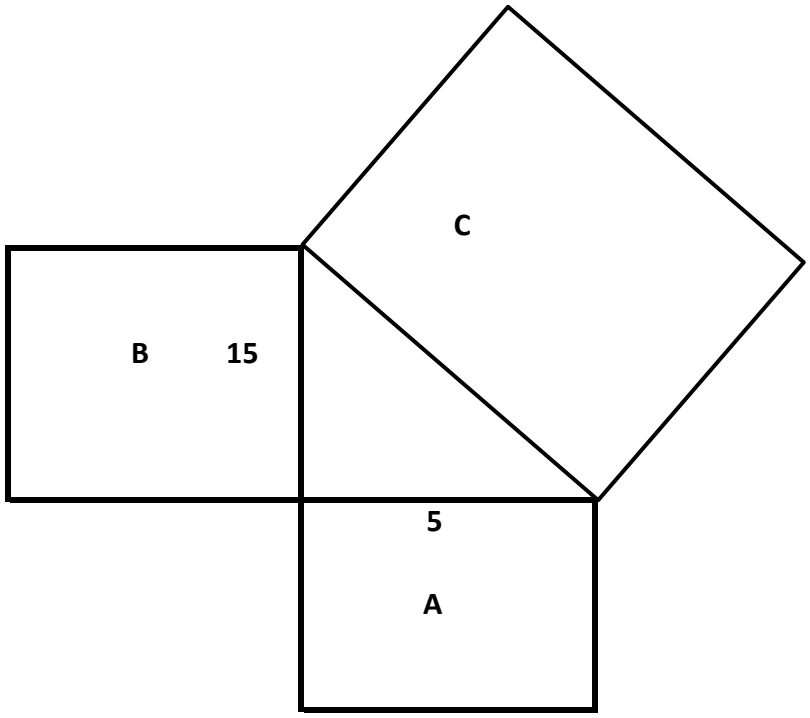
Grade 8 **Applying the Pythagorean Theorem**

Practice Unit #25 from Menu

Name: **Date:**

S/N 578

Pythagorean Theorem: (right triangle only)
side A^2 + side B^2 = side C^2



1. What is the area of 'B' in units? _____

2. What is the area of 'A' in units? _____

3. What is the area of 'C' in units? _____

4. What is the area of 'A' + 'B' in units? _____

5. $5^2 + 15^2 =$ _____

6. $C^2 =$ _____ $C =$ _____

(round answers for questions below to nearest tenth)

7. A = 23 units, B = 17 units, C = _____

8. A = 24 units, C = 32.6 units, B = _____

9. B = 17 units, C = 18.8 units, A = _____

Grade 8

Applying the Pythagorean Theorem

Practice Unit #25 from Menu - Teacher Key

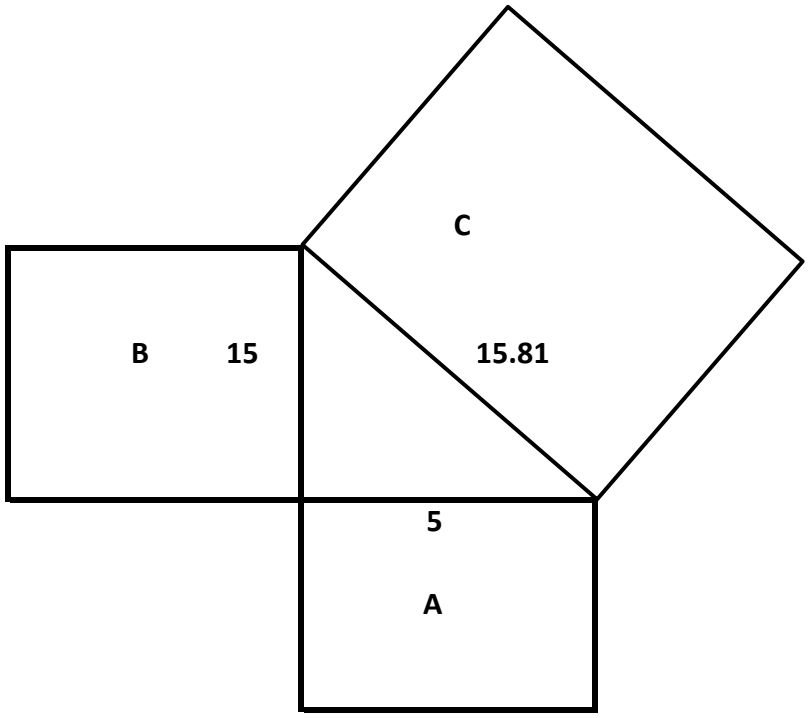
Teacher Key

S/N 578

TEKS 8.6c: 8.7c

Domain 3

Pythagorean Theorem: (right triangle only)
side A^2 + side B^2 = side C^2



1. What is the area of 'B' in units? **225 units²**

2. What is the area of 'A' in units? **25 units²**

3. What is the area of 'C' in units? **250 units²**

4. What is the area of 'A' + 'B' in units? **250 units²**

5. $5^2 + 15^2 =$ **15.81^2**

6. $C^2 =$ **250** C = **15.81**

(round answers for questions below to nearest tenth)

7. A = 23 units, B = 17 units, C = **28.6 units**

8. A = 24 units, C = 32.6 units, B = **22 units**

9. B = 17 units, C = 18.8 units, A = **8 units**

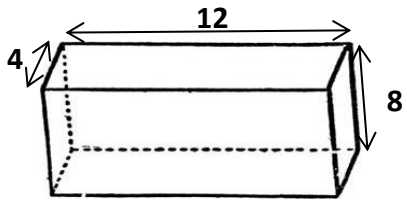
Grade 8 Surface Area

Practice Unit #31 from Menu

Name _____ **Date** _____

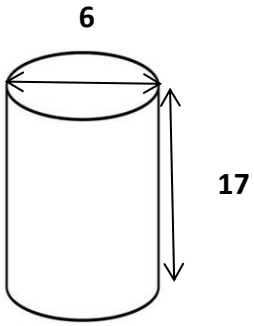
S/N 599

1. Find the surface area of the prism below:



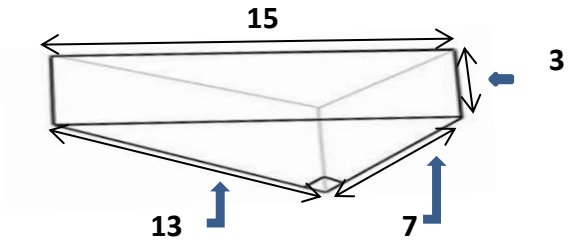
What is the surface area in square meters? _____

2. Find the surface area of the cylinder below:
(Round your answer to one decimal place.)



What is the surface area in square inches? _____

3. Find the surface area of the prism below:



What is the surface area in square centimeters? _____

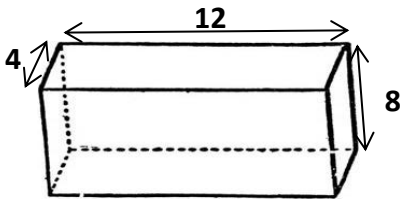
Grade 8 Surface Area

Practice Unit #31 from Menu - Teacher Key

Teacher Key

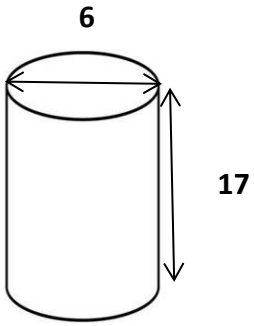
S/N 599 | **TEKS 8.7a**

1. Find the surface area of the prism below:



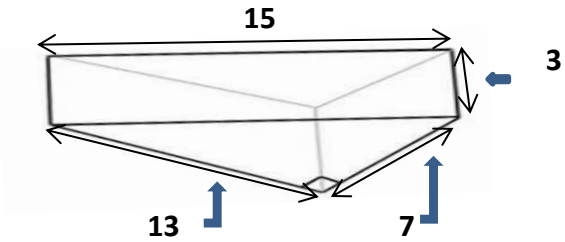
What is the surface area in square meters? **352 Square meters**

2. Find the surface area of the cylinder below:
(Round your answer to one decimal place.)



What is the surface area in square inches? **377.0 Square inches**

3. Find the surface area of the prism below:

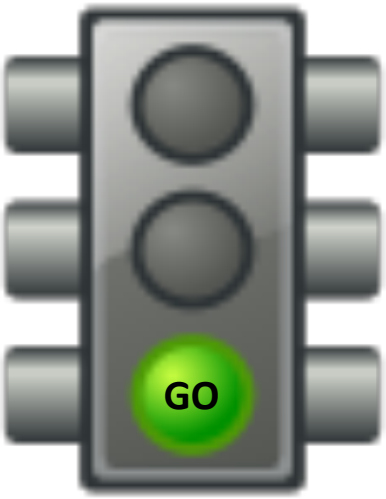


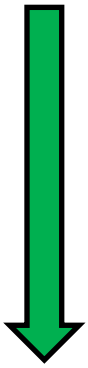
What is the surface area in square centimeters? **196.0 Square centimeters**

Print Today's Date and Your Name Below:

Date : _____

Student Name : _____





Go To The Next Page When Told 

B e g I n

1. The number of songs that five students downloaded this week is shown below.

58 , 59 , 26 , 37 , 47

What is the mean absolute deviation of the numbers shown above?

A. 11.12
B. 12.12
C. 14.12
D. 15.12

A ○ B ○ C ○ D ○

2. Which representation of a transformation on a coordinate grid does NOT preserve congruence?

A. (x, y) → (x + 2, y + 2)

B. (x, y) → (1/2 x, 1/2 y)

C. (x, y) → (y, - x)

D. (x, y) → (2/1 x, 1/2 y)

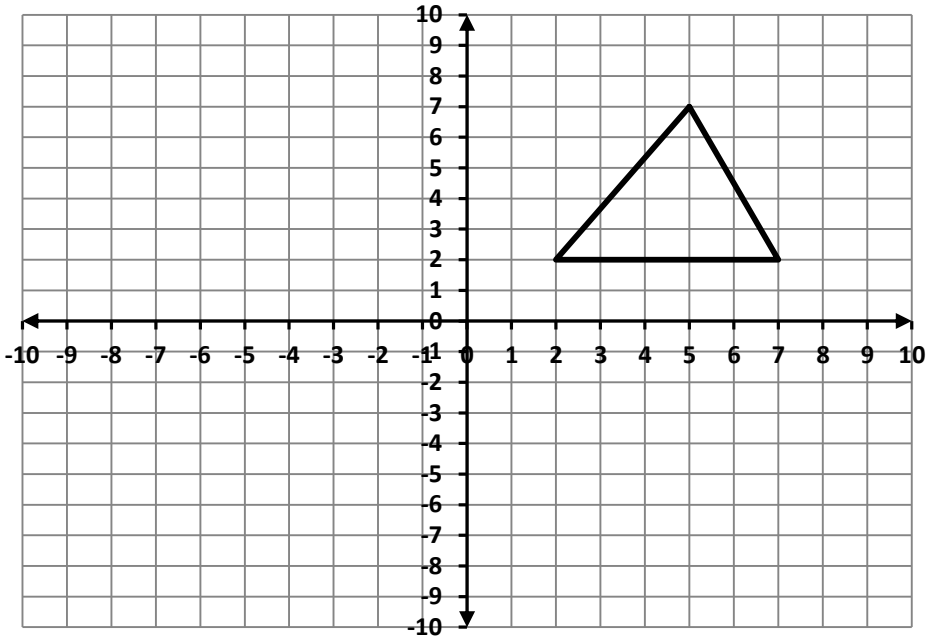
A ○ B ○ C ○ D ○

Continue to Page 2

TX Codes	Q 1. 8.11b	Q 2. 8.10b	S/N 473

Continue

3.



In the coordinate grid above,which set of number pairs would represent the reflection of the figure across the y axis?

A. (7, -2), (5, -5), (2, -2)

B. (2, 7), (7, 5), (2, 2)

C. (2, -7), (5, -7), (,2, -2)

D. (-5, 7), (-7, 2), (-2, 2)

A ○ B ○ C ○ D ○

Teacher Key

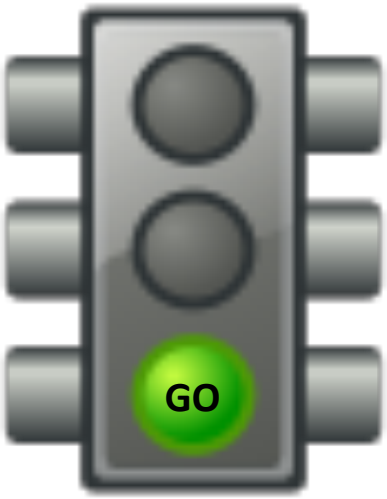
S/N 530

Page Number	Unit Number	Answer	Domain	TX Codes
1.	1.	(A)	1	8.1b
2.	2.	(D)	2	8.5i
3.	3.	(A)	2	8.3c

Print Today's Date and Your Name Below:

Date : _____

Student Name : _____

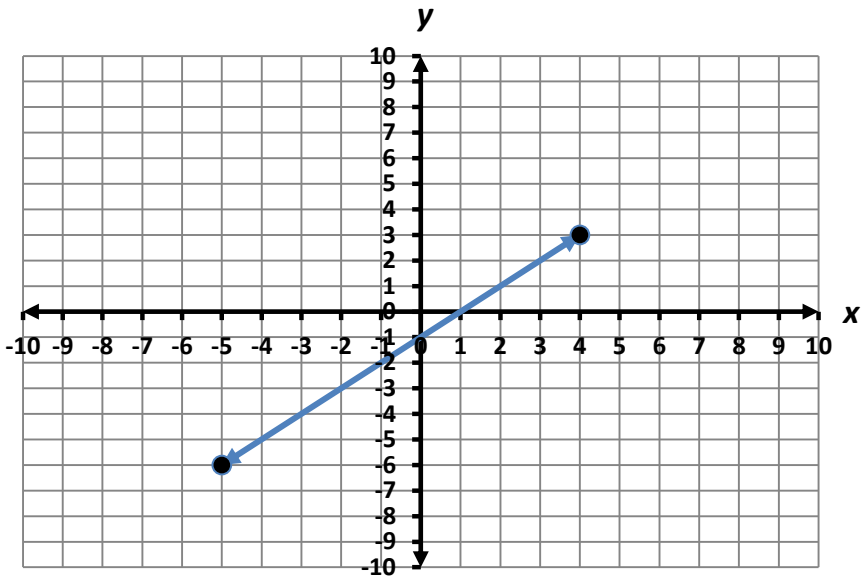


Go To The Next Page When Told

S/N 530

Continue

2. Which function is best represented by the graph shown below?



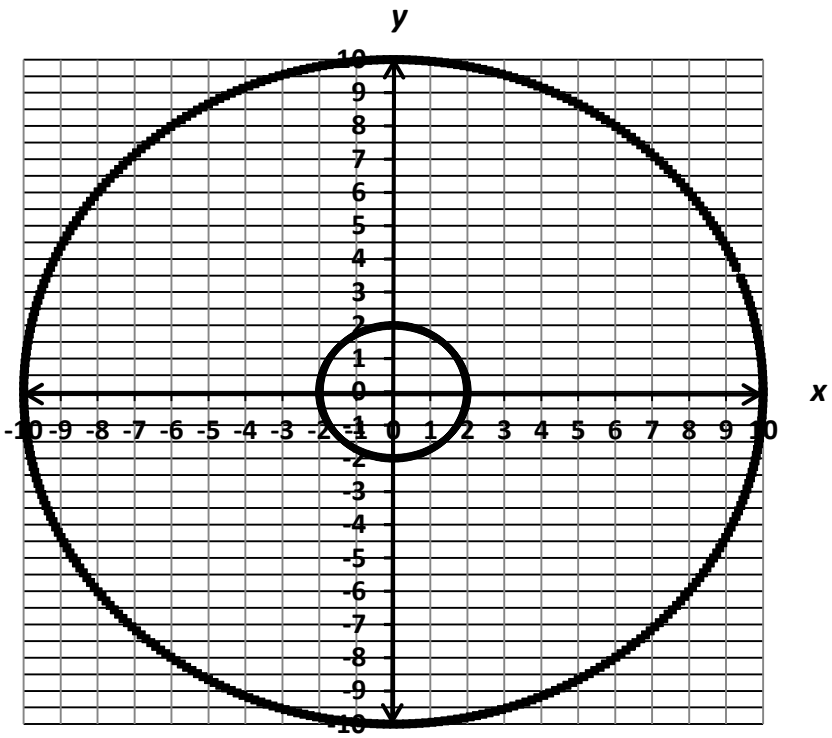
A. $y = x + 1$
B. $y = -x + 1$
C. $y = -x - 1$
. $y = x - 1$

A B C D

Continue to Page 3

Continue

3. In the figure shown, the inner circle was dilated with the origin as the center of dilation to create the outer circle.



Which rule below best represents the dilation applied to the inner circle to create the outer circle in the figure above.

A. (x , y) →(10/2 x , 10/2 y)

B. (x , y) →(2/10 x , 2/10 y)

C. (x , y) →(1 x , 5 y)

D. (x , y) →(y , x)

A B C D

Continue