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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	TEKS
1. Division Practice Word Problems	1	7.2a, b
2. Finding Pentagons	1	7.3a
3. Order of Operations	1	7.3a
4. Patterns Divide	1	7.3a
5. Patterns Multiply	1	7.3a
6. Rounding Division	1	7.3a
7. Add/Subtract (Pos. and Neg.)	1	7.3a, b
8. Add/Subtract (Pos. and Neg.) II	1	7.3a, b
9. Add/Subtract Mixed Numbers	1	7.3a, b
10. Division	1	7.3a, b
11. Division and Multiplication	1	7.3a, b
12. Division Practice	1	7.3a, b
13. Mixed Problems	1	7.3a, b; 7.1b; 7.4d
14. Multiply	1	7.3a, b; 7.1b; 7.4d
15. Numbers and Operations Exercises	1	7.3a, b
16. Products and Sales Math	1	7.3a, b
17. Round/Estimate/Multiply	1	7.3a,b
18. Evaluate and Solve	1	7.3b
19. Multiply Mixed Numbers/Fractions	1	7.3b
20. Stopping Distance	2	7.4a; 7.1a,b
21. Calculating Rates of Change	2	7.4a, d
22. Calculating Unit Rates	2	7.4b,d
23. Constant of Proportionality	2	7.4c
24. Constant Rates of Change	2	7.4d
25. Proportional Measurements	2	7.4e
26. Similar Figures	2	7.5a,c
27. Measuring Circles	2	7.5b, c
28. Scale Factors	2	7.5c
29. Calculating Probabilities	2	7.6a
30. Probabilities	2	7.6b, d, i
31. Predictions and Solutions	2	7.6c
32. Calculating Probabilities II	2	7.6e, h

33.	Data Comparisons	2	7.6f, g
34.	Dependent and Independent Relationships	3	7.7a
35.	Graphing in the First Quadrant	3	7.7a
36.	Geometric Volume I	3	7.9a, b, d
37.	Geometric Volume II	3	7.9a; 7.8a, b
38.	Area and Volume	3	7.9a, d
39.	Circle Within a Square	3	7.9b
40.	Dimensions of Circles	3	7.9b
41.	Surface Area	3	7.9b, d
42.	Geometry	3	7.9b, c
43.	Perimeter and Area	3	7.9c; 7.3a, b
44.	Commutative/Associative Properties	3	7.10a; 7.1c, d
45.	Commutative/Associative Properties II	3	7.10a; 7.1c, d
46.	Writing Equations	3	7.10a, c
47.	Writing Equations II	3	7.10a
48.	Solving and Writing Equations	3	7.10b
49.	Add/Subtract Unknowns	3	7.11a; 7.3a
50.	Add/Subtract	3	7.11a; 7.3a, b; 7.1b
51.	Add/Subtract/Solve	3	7.11a; 7.3a, b
52.	Algebraic Expressions	3	7.11a; 7.1d
53.	Associative Properties	3	7.11a; 7.3a; 7.1c, d
54.	Evaluate and Simplify	3	7.11a; 7.3a, b
55.	Expressions/Powers/Equations	3	7.11a; 7.3a, d
56.	Finding Unknowns	3	7.11a; 7.3a, d
57.	Replacement Sets	3	7.11a; 7.3a
58.	Solve Equations Division	3	7.11a
59.	Evaluate and Solve	3	7.11a; 7.3a, b
60.	Mixed Practice	3	7.11a; 7.3a, b
61.	Search and Solve	3	7.11a; .3a, b; .1a, b
62.	Solve Add/Subtract/Divide	3	7.11b
63.	Solve for Unknown	3	7.11a, b
64.	Word Problems Using Pos. and Neg.	3	7.11a, b; 7.3a, b
65.	Writing and Solving Equations	3	7.11a, b
66.	Angles and Perimeter Measurements	3	7.11c
67.	Angles and Perimeter Measurements II	3	7.11c
68.	Box and Whisker Data Plotting	4	7.12a, b, c
69.	Dot Plot Comparisons	4	7.12a, c
70.	Proportional Reasoning	4	7.12c
71.	Stem and Leaf	4	7.12c
72.	Earnings/Taxes/Discounts	5	7.13a
73.	Budgeting	5	7.13b, d
74.	Assets, Liabilities and Net Worth	5	7.13c
75.	Interest Income	5	7.13c
76.	Sales with Discounts/Rebates/Coupons	5	7.13f

Name: _____

Date: _____

S/N 108

1. Complete the table below to find the constant rate of change.

x		8	13		23		
y	15			90		140	165

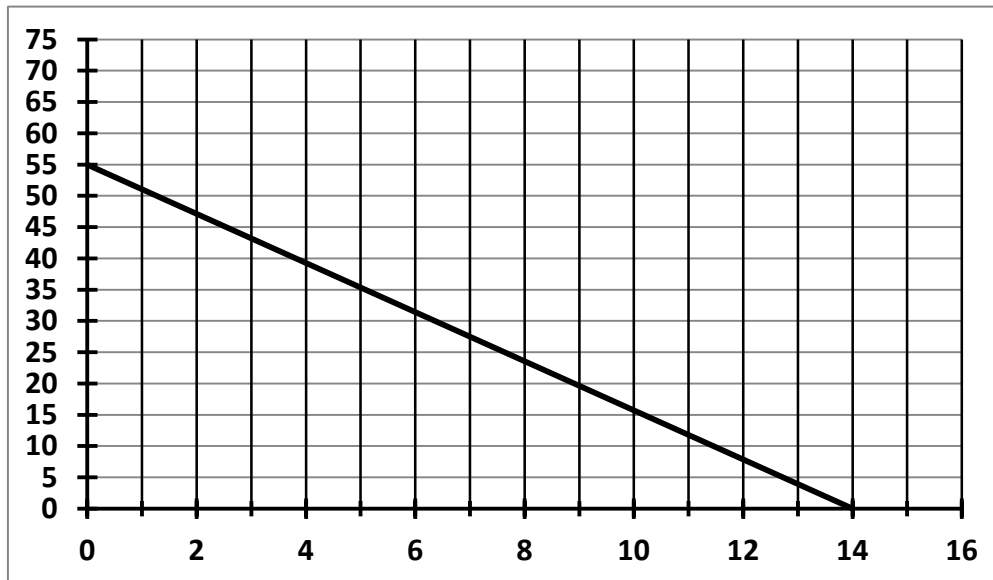
The constant rate of change is: 5

2. Find the constant rate of change from the table below.

x	-10	-6	-2	0	2	6	10
y	20	12	4	0	-4	-12	-20

The constant rate of change is:

3. What is the constant rate of change in the graph shown below?



The constant rate of change is:
(Nearest hundredth.)

4. It took you 6.5 hours to drive 455 miles to your uncle's house at a constant rate of speed.
What was your constant rate of speed?

S/N 108

TEKS 7.4a, d

Domain 2

Complete the table below to find the constant rate of change.

x	3	8	13	18	23	28	33
y	15	40	65	90	115	140	165

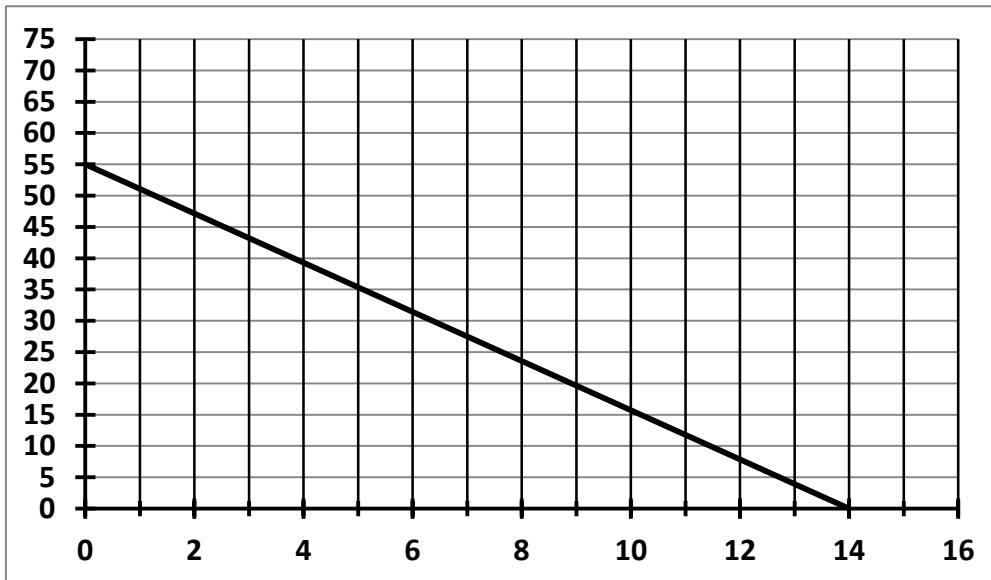
The constant rate of change is: 5

Find the constant rate of change from the table below.

x	-10	-6	-2	0	2	6	10
y	20	12	4	0	-4	-12	-20

The constant rate of change is: -2

What is the constant rate of change in the graph shown below?



The constant rate of change is:
(Nearest hundredth.) -3.93

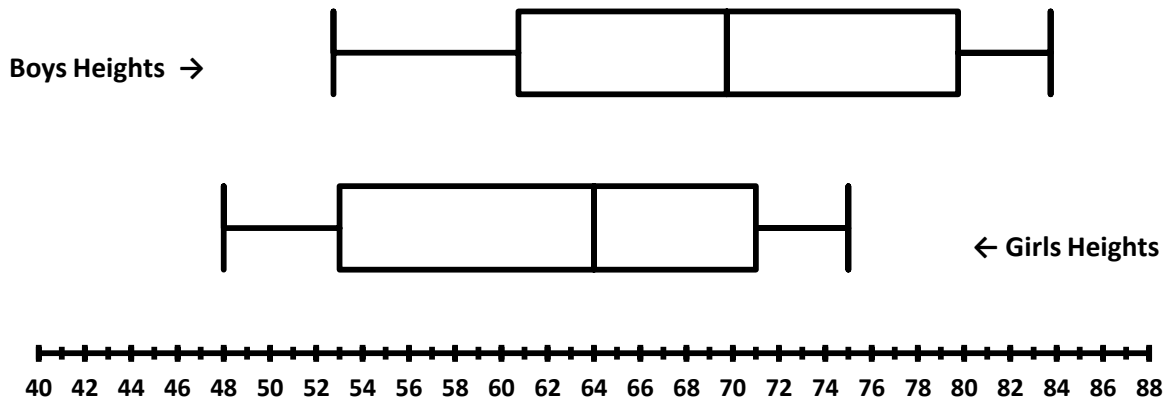
It took you 6.5 hours to drive 455 miles to your uncle's house at a constant rate of speed.

What was your constant rate of speed? 70 mph

Name: _____

Date: _____

S/N 280



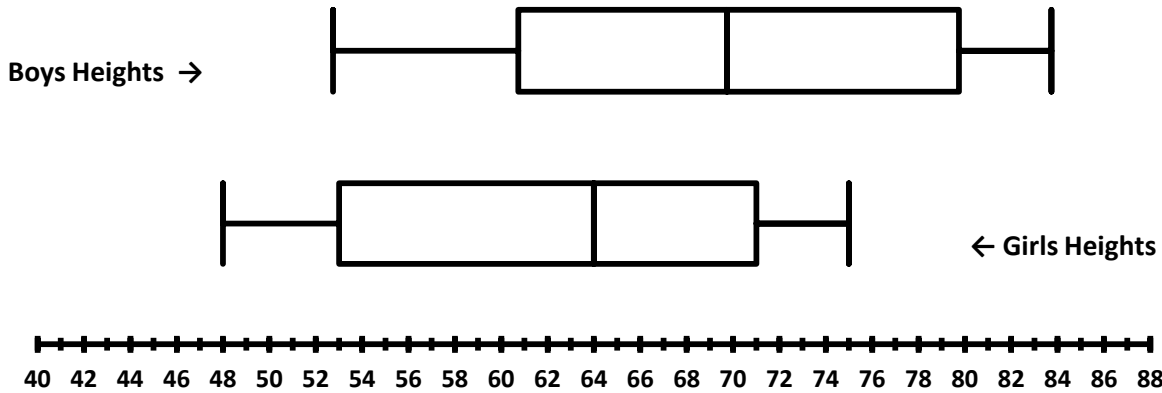
The box and whisker plots above depict the heights of players on two teams.
(Heights are in inches.)

1. What is the range of the heights of the players on the boys' team? _____
2. What is the range of the heights of the players on the girls' team? _____
3. What is the median height of the players on the boys' team? _____
4. What is the median height of the players on the girls' team? _____
5. What is the inter quartile range of heights on the boys' team? _____
6. What is the inter quartile range of heights on the girls' team? _____
7. What is the difference in the height of the tallest boy and girl? _____
8. What is the difference in the height of the shortest boy and girl? _____

S/N 280

TEKS 7.12a, b, c

Domain 4



The box and whisker plots above depict the heights of players on two teams.
(Heights are in inches.)

1. What is the range of the heights of the players on the boys' team? 31
2. What is the range of the heights of the players on the girls' team? 27
3. What is the median height of the players on the boys' team? 70
4. What is the median height of the players on the girls' team? 64
5. What is the inter quartile range of heights on the boys' team? 19
6. What is the inter quartile range of heights on the girls' team? 18
7. What is the difference in the height of the tallest boy and girl? 9
8. What is the difference in the height of the shortest boy and girl? 5



S/N 136

Teacher Key

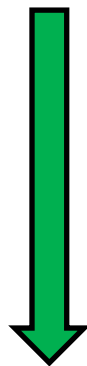
<u>Page Number</u>	<u>Unit Number</u>	<u>Answer</u>	<u>Domain</u>	<u>TX Codes</u>
2.	2.	(A)	3	7.10a; 7.11a
2.	3.	(D)	3	7.9a




Print Today's Date and Your Name Below:

Date : _____

Student Name : _____



Go To The Next Page When Told 

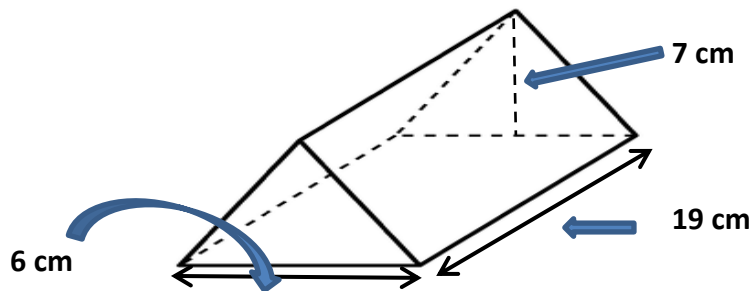
Continue 

2. Your math teacher draws a rectangle with a width of 13 centimeters and a length of 18 centimeters. Which equation can be used to determine A , the area of the rectangle in millimeters?


- A. $A = 10(13 \times 18)$
B. $(13 + 18)10 = A$
C. $A = (13 \times 18) \div 10$
D. $(13 + 18) \times 10 = A$

A
B
C
D

3. What is the volume of the triangular prism shown below?



- A. 798 cm^3
B. 200 cm^3
C. 499 cm^3
D. 399 cm^3

A
B
C
D
Go To Page 3 



S/N 221

Teacher Key

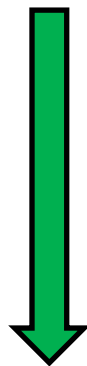
<u>Page Number</u>	<u>Unit Number</u>	<u>Answer</u>	<u>Domain</u>	<u>TX Codes</u>
1.	1.	(A)	3	7.9c
2.	2.	(C)	2	7.4d
2.	3.	(C)	1	7.3b
3.	4.	(A)	2	7.4c
3.	5.	(A)	2	7.4d




Print Today's Date and Your Name Below:

Date : _____

Student Name : _____

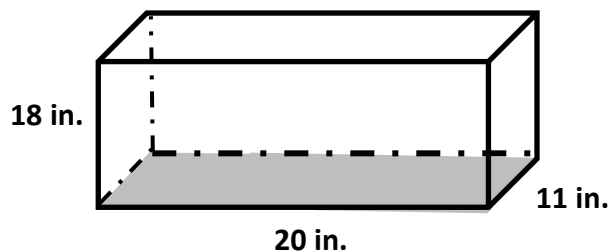


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Begin 

1. A box shaped like a rectangular prism is modeled below. The shaded part is one base of the box.



A formula for finding the volume of a rectangular prism is $V = Bh$. Which answer shows a formula that can be used to find B , the area of the shaded base of the box in square inches?

- A. $B = (20)(11)$
- B. $B = (20) \div (11)$
- C. $B = 20 + 11$
- D. $B = 1/2 (20)(11)$

A

B

C

D



Continue 

2. You have answered 17/50 of the questions on a test. What percentage of the test questions have you answered?

A. 35%

B. 33%

C. 34%

D. 24%

A

B

C

D

3. The 15 members of the math team want to raise \$361.63 to buy practice books. They have raised \$260.8 so far. If each team member raises the same amount, how much more must each person raise?

A. \$5.77

B. \$7.77

C. \$6.77

D. \$7.02

A

B

C

D



Continue

4. You go to the grocery store and decide to buy 3 pounds of peaches for \$3.84. What is the constant of proportionality that relates to the cost in dollars, y , to the number of pounds of peaches, x ?

- A. 1.28
- B. 1.21
- C. 1.35
- D. 3.84

A B C D

5. Your sister Janice increased the amount of protein she eats every day from 56g to 63g. By what percentage did Janice increase the amount of protein she eats? (to the nearest tenth of a percent)

- A. 12.5%
- B. 12.4%
- C. 13.5%
- D. 11.5%

A B C D

Continue