6th Grade Math Packet

April 20-April 30

This Packet Includes:

- Check Ups (RETURN TO TEACHER)
- Question of the day challenge
- Notes with check for understanding problems
- Puzzles for extra practice
- Games for you and your family to play
- Answer Keys

The only thing we ask for you to return via bus or emailing a picture to your teacher are the first pages labeled "Check Up" How much of the rest of the packet depends on what is best for you. Included are notes for you to read over and problems to practice. The answers are in the back to check if you are being successful.

If you have online available to you, please join our Google Classrooms where we will be posting videos and tips to help you. Log into Google Classroom using your school address and password. Then join YOUR teacher's classroom using the code.

Mrs. StPeter's code: cphpbko Miss VanBoven's code: y3xbej6

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Possible Schedule

April 20: Receive Packet and look over Mid Chapter 6 Check up and read 6.1 Notes. Try a couple problems and check answers.

April 21: Read 6.2 Notes and try a couple problems checking answers

April 22: Read 6.3 Notes and Check for understanding

April 23: Read 6.4 Notes and Check for understanding

April 24: Both Mid and End of Chapter 6 Check Up

*Add bonus material (puzzles and games through out)

April 27: Look over Mid Chapter 7 Check Up and Read 7.1 Notes. Try a couple problems and check answers. Do problems #1 and #5 on Check Up

April 28: Read 7.2 Notes and Check for Understanding. Do Problems #2 and #7 on Check Up.

April 29: Read 7.3 and Check for Understanding. Do Problems #3 and #4 on Check Up.

April 30: Double check all Check Up problems and email or send back on the bus.

May 1: PLAY GAMES with the family! 🚳

Date



4. x + 13 = 19 **5.** b - 8 = 14

6. The perimeter of the figure is 72 meters. Solve for x.



7. You spend \$44 on a game, receive \$30 for painting a fence, and give \$5 to your friend. You have \$32 left. How much money did you start with? (If you are having a hard time with this one, use counters (such as beans) and work backwards.

Name

Date ____

teach

Chapter 6 End of Chapter Check Up

Solve the equation by finding the value of the variable

1. $y \div 4 = 10$

2. 6*n* = 30

3. Tell whether (5, 10) is a solution of 6x - 18 = y (*Remember the coordinates are in this order: (x,y), so if x = 5 and y = 10, would the solution be correct?*)



5. An endurance athlete jogs at a rate of 9 miles per hour. How many hours does it take for the athlete to jog 4.5 miles?

Name



5. Find the area of the parallelogram in square inches. (Be careful. Remember that 1 foot = 12 inches.) Change the given measurements from feet to inches before you multiply.)







of wood. What is the height of the birdhouse?

The front of the birdhouse is made using 28 square inches

7.

Questions of the Day

Monday – April 20 You buy a basket of 24 strawberries and eat them as you walk to the beach. After you walk 8 blocks half the berries are left. You walk 4 more blocks and quit eating the berries. If you ate the berries at the same rate throughout your whole walk, how many berries are left when you quit eating?

Tuesday – April 21 You go to the Baby Food Festival. You have \$15 for rides. If it costs \$1.75 to ride the bumper cars, \$1.25 for the Ferris Wheel, \$0.50 for the giant slide, and \$1.50 for the Scrambler. Do you have enough money to ride each ride twice?

Wednesday – April 22 Can you fill in the ten squares using each of the digits 0 through 9 once?

12 x 🗌 = 🗌 0	□□ ÷ 4 = 12	🗌 = 🗌 5÷5	🗌 x 0 = 🗌
7 🗌 = 🔲 x 8			

Thursday – April 23 The area of a picture is 100 in². The length of the picture is 4 times the width. What is the length and width of the picture?

Friday – April 24 Can you write an equation that has (3,4) as a solution? (*Remember the first value in the ordered pair is x and the second value is y.*)

Monday – April 27 A galaxy has a parallelogram-shaped dust field. The base of the dust field is 100 miles. If the height is 25% of the base, what is the area of the dust field?

Tuesday – April 28 How can you use the area of a parallelogram to find the area of a triangle with the same base and height?

Wednesday -April 29 If the base and height of Triangle A are one-half the base and height of Triangle B, how many times bigger is Triangle B than Triangle A? Drawing a picture might help you answer this question.

Thursday – April 30 An equilateral triangle has all sides the same length. If you know the height and perimeter (distance around) of the triangle, how can you find its area?

Answers to Questions of the Day

April 20 6 berries are left. Half way through your walk there were 12 berries. 4 blocks is half of 8, so you would eat half of the remaining 12 berries in the last 4 blocks. You have 6 berries left.

April 21 No it costs \$9.75 to ride each ride once. \$9.75 doubled is greater than \$15.

April 22 12 x 5 = 60 48 ÷4 = 12 7 = 35 ÷ 5 1 x 0 = 0 72 = 9 x 8

April 23 Length is 20 in and the Width is 5 in.

April 24 One example is y = 2x - 2 because 4 = 2(3) - 2 There are several other examples.

April 27 $100 \times 25 = 2500 \text{ mi}^2$

April 28 The triangle is half the area of the parallelogram if the base and height are the same.

April 29 The bigger triangle will be 4 times bigger because the size is doubled in each direction

April 30 Since all sides are the same length, divide the perimeter by 3. That will give you the length of each side, which would be the length of the base. Multiply that number by the given height and divide your answer by 2 to get the area of the triangle.

May 1 Some examples are below. The popcorn box, the lamp shade and the diamond part of the ring.



Lesson 6.1 Notes

An **equation** is a mathematical sentence that uses an equal sign, =, to show that two expressions are equal.

To write a word sentence as an equation, look for key words or phrases such as *is, the same as,* or *equals* to determine where to place the equal sign.

EXAMPLE Writing an Equation

Write the word sentence as an equation.

The product of 8 and a number x is 24.

As you read the word sentence, determine which mathematical operation is being described and where to place the equal sign.



An equation is 8x = 24.

EXAMPLE Writing an Equation

You pay \$13.50 for a movie ticket and snacks. The snacks cost \$6.95. Write an equation you can use to find the price p of a movie ticket.

Use a verbal model to write an equation.

You can substitute 13.50 for "Total amount paid," p for "Price of a movie ticket," and 6.95 for "Cost of snacks."

```
Equation 13.50 = p + 6.95
```

An equation that you can use to find the price of a movie ticket is 13.50 = p + 6.95.

6.1 Check for Understanding

Write the word sentence as an equation.

- **1.** 12 less than a number x is 19.
- 2. One-third of a number w is 16.
- **3.** 117 is 32 more than a number *m*.
- 4. A number q divided by 5 is 8.
- **5.** 42 more than a number a is 31.
- **6.** 15 less than a number z is 32.



Why Did The Sea Monster Eat Six Ships That Were Carrying Potatoes?

A	В	с	D	E	F
G	н	1	J		

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

$\frac{x}{3} = 12$ JUST
550 + x = 1250 SHIP
x + 5 = 14 IT
x - 13 = 15 ONE
24 = 4 + x CAN

Write the word sentence as an equation.

- A. The sum of a number x and 5 equals 14.
 B. A number x decreased by 6 is 5.
 C. 7 times a number x is 42.
- **D.** A number *x* divided by 8 equals 11.
- **E.** 24 equals 4 more than a number x.
- **F.** 9 is one-third of a number x.
- **G.** 12 is the quotient of a number x and 3.
- H. 13 less than a number x equals 15.
- 1. You throw a football 20 yards. Your friend throws the same football x yards. The football was thrown a total distance of 50 yards. Write an equation you can use to find the distance x that your friend threw the football.
- J. Students raised \$550 by having a car wash. They need \$1250. Write an equation you can use to find the amount x that the students still need to raise.

	$\frac{x}{8} = 11$ ONE	
	20 + <i>x</i> = 50 POTATO	
	7 <i>x</i> = 42 NO	
and the second se	$9 = \frac{1}{3}x$ EAT	
	x - 6 = 5 SEEMS	

6.2 Notes

EXAMPLE Checking Solutions

Tell whether the given value is a solution of the equation.

a.	7 - h = 5; h = 2	
	7 - h = 5	Write the equation.
	$7-2 \stackrel{?}{=} 5$	Substitute 2 for h.
	5=5 🗸	Sides are equal.
	So, $h = 2$ is a solution	on.
b.	121 = 10m; m = 11	
	121 = 10m	Write the equation.
	121 = 10(11)	Substitute 11 for <i>m</i> .
	$121 \neq 110$ X	Sides are not equal.
	So, $m = 11$ is not a	solution.

Addition	Property of Equality	
Words	When you add the s the two sides remain	ame number to each side of an equation, n equal.
Numbers	8 = 8	Algebra $x-4 = 5$
	+5 +5	+4 $+4$
	13 = 13	x = 9
Subtracti Words	on Property of Equa When you subtract t	lity the same number from each side of an
	equation, the two sid	des remain equal.
Numbers	8 = 8	Algebra $x+4 = 5$
	<u>-5</u> <u>-5</u>	$\underline{-4}$ $\underline{-4}$
	3 = 3	x = 1

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EXAMPLE Solving an Equation Using Addition

Solve y - 12 = 6.

	y - 12 = 6	Write the equation.
Undo the subtraction.	+ 12 + 12	Addition Property of Equality: Add 12 to each side.
	y = -18	Simplify.
Check your solution.		
	y - 12 = 6	Write the equation.
	$18 - 12 \stackrel{?}{=} 6$	Substitute 18 for y.
	$6 = 6 \checkmark$	Sides are equal.

The solution is y = 18.

EXAMPLE Solving an Equation Using Subtraction

Solve *w* + 6 = 19.

	w + 6 =	19	Write the equation.
Undo the addition. \rightarrow	<u>- 6</u>	<u>-6</u>	Subtraction Property of Equality: Subtract 6 from each side.
	<i>w</i> =	13	Simplify.

Try checking the solution on your own.

The solution is w = 13.

Check for Understanding

Tell whether the given value is a solution of the equation.

1. x + 5 = 10; x = 5 2. g - 4 = 4; g = 8 3. y + 8 = 18; y = 26

4. 40 – n = 12; n = 32

Solve the equation. Check your solution.

1. z + 4 = 6 2. x - 5 = 20 3. d + 12 = 21 4. f = 21 = 10



What Do Kitty Cats Like To Eat For Breakfast?

Write the letter of each answer in the box containing the exercise number.

Solve the equation. Check your solution.

		and the second s		•
1.	p - 8 = 4	Ar	nswers	
2.	k - 2 = 12	к.	16	
3.	9 = h - 15		5	
4.	y + 4 = 7		8	
5.	z + 5 = 21	E.	24	
6.	63 = r + 31	S.	14	
7.	x - 25 = 16	R.	5.9	
8.	26 = m + 18	C.	41	
9.	$\frac{2}{2} = a - \frac{2}{2}$	I.	32	
•••	3 3	Ρ.	12	
10.	$f + \frac{1}{4} = \frac{1}{8}$	S.	8	
11.	2.3 = q - 3.6	М.	3	
12.	j + 4.4 = 16.2	E.	11.8	
		١.	$1\frac{1}{3}$	

4	10	7	12	5	11	9	2	1	6	3	8

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6.3 Notes



EXAMPLE Solving an Equation Using Multiplication

Solve $\frac{b}{2} = 7$.

Check the solution by substituting the value of the variable and determining whether the equation is true.

$\frac{b}{2} = 7$	Write the equation.
$\frac{14}{2} = 7$	Substitute 14 for b.
7 = 7 🗸	Sides are equal.

The solution is b = 14.

Key Idea								
Division P	Division Property of Equality							
Words	When you divide each si number, the two sides re-	de of an equation main equal.	by the same nonzero					
Numbers	$8 \cdot 4 = 32$	Algebra	4x = 32					
	$8 \cdot 4 \div 4 = 32 \div 4$		$\frac{4x}{4} = \frac{32}{4}$					
	8 = 8		x = 8					

EXAMPLE Solving an Equation Using Division

Solve 24 = 8x.



Check the solution by substituting the value of the variable and determining whether the equation is true.

24 = 8x	Write the equation.
$24 \stackrel{?}{=} 8(3)$	Substitute 3 for <i>x</i> .
24 = 24 ✓	Sides are equal.

The solution is x = 3.

Check Your Understanding

Solve the Equation then Check Your Solution

1. 4a = 16 2. $\frac{y}{25}$ = 5 3. 28 = 4n 4. y ÷ 12 = 7



What Did The Dirt Say When It Began To Rain?

A	В	с	D	E	F
G	н	1	J	к	L
м	N	0	Ρ		

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

7	Solve the equation.	Check your solution.	12
NAME	A. $\frac{a}{9} = 6$	B. $7 = \frac{z}{6}$	UP
56 WILL	C. $y \div 4 = 10$	D. $25 = \frac{k}{5}$	6.5 CHANGE
	E. $2s = 16$	F. $8 \cdot t = 96$	
54 IF	G. $50 = 5x$	H. $56 = 8k$	125 RAIN
9	1. $4b = 52$	J. $39 = 6 \cdot c$	110
MUD	K. $14 = n \div 5$	$L. 10 = v \div 6$	BE
10 MY	M. $x \div 16 = 3.5$	N. $\frac{w}{25} = 4.4$	42
	O. $11.5 \cdot d = 23$	P. $4.5v = 40.5$	THIS
13 WILL			8 KEEPS
2 CALLED			60 I
40 HEAVY			70 AND

6.4 Notes

An equation in two variables represents two quantities that change in relationship to one another. A solution of an equation in two variables is an ordered pair that makes the equation true.

EXAMPLE Identifying a Solution of an Equation in Two Variables

Tell whether (1, 2) is a solution of the equation y = x + 1.

y = x + 1	Write the equation.
$2 \stackrel{?}{=} 1 + 1$	Substitute 2 for y and 1 for x
2 = 2 V	Sides are equal.

 \blacktriangleright So, (1, 2) is a solution.

EXAMPLE Using an Equation in Two Variables

The equation y = 48 - 6x represents the amount y (in fluid ounces) of lemonade remaining in a pitcher after you pour x glasses. Identify the independent and dependent variables. How much lemonade remains in the pitcher after you pour 5 glasses?

Because the amount y of fluid ounces remaining depends on the number x of glasses you pour, y is the dependent variable and x is the independent variable.

Because you are finding how much lemonade remains after you pour 5 glasses, you need to find the value of y when x = 5.

y = 48 - 6x	Write the equation.
y = 48 - 6(5)	Substitute 5 for <i>x</i> .
y = 48 - 30	Multiply 6 and 5.
y = 18	Subtract 30 from 48.

There are 18 fluid ounces remaining.

EXAMPLE Graphing an Equation in Two Variables

Graph y = x + 5.

First find ordered pairs that are solutions of the equation. Make a table of the ordered pairs.

- 1) Choose values for x. I'm going to use 0, 1, 2, 3
- 2) Substitute the values for x in the equation
- 3) The solution is the y value
- 4) The ordered pair is (x, y).
- 5) Plot the ordered pairs

х	y = x + 5	у	Ordered Pair
0	y = 0 + 5	5	(0, 5)
1	y = 1 + 5	6	(1, 6)
2	y = 2 + 5	7	(2, 7)
3	y = 3 + 5	8	(3, 8)

Then plot the ordered pairs and draw a line through the points.



Check Your Understanding

Tell whether the ordered pair is a solution of the equation.

1. y = 5x; (1, 10)2. y = 3x + 4; (0, 4)3. y = 2x - 7; (6, 5)4. y = 6x + 1; (2, 11)

Graph y = x + 2

х	y = x + 2	У	(x,y)
0			
2			
4			
6			





Which Are The Strongest Shellfish On The Beach?

Write the letter of each answer in the box containing the exercise number.

Tell whether the ordered pair is a solution of the equation.

1. $y = 6x; (0, 3)$	
R. Yes	S. No
2. $y = 4x; (1, 4)$	
U. Yes	V. No
3. $y = 3x - 7$; (4, 5)	
E. Yes	F. No
4. $y = x + 8$; (2, 12)	
R. Yes	S. No
5. $y = 9x - 9; (1, 0)$	
L. Yes	M. No
6. $y = 2x + 4$; (2, 8)	
S. Yes	T. No
7. y = x - 6; (5, 11)	
L. Yes	M. No



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Learn**English Kids**



1. Make a dice!

Cut out the dice. If possible, stick or print on card to make it stronger. Fold along the dotted (- - -) line and glue the shaded parts together.





2. Make counters!

Cut out the counters. If possible, stick or print on card to make them stronger.



www.britishcouncil.org/learnenglishkids



Expression $x =$ Workspace (show expression with subs $2x + 30$ $2x + 30$ $5x - 2$ $7 + 3x - 4$ $7 + 3x - 4$ $4x - 2^2 + 3$ $5x + (6 X 3)$ $5x + (6 X 3)$ $10x - 3^2$ $6 + 7x - 10$	Algebra	c Expre	ssion	Dice Game – One Variabl
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Expression	× 		Workspace (show expression with substitut
5x-2	2x + 30			
$7 + 3x - 4$ $4x - 2^2 + 3$ $4x - 2^2 + 3$ $5x + (6 X 3)$ $5x + (6 X 3)$ $10x - 3^2$ $5x + (6 X - 3)^2$ $5x$	5x – 2			
4x - 2 ² + 3 5x + (6 X 3) 10x - 3 ² 6 + 7x - 10	7 + 3x - 4			
5x + (6 X 3) 10x - 3 ² 6 + 7x - 10	4x - 2 ² + 3			
10x - 3 ² 6 + 7x - 10	5x + (6 X 3)			
6 + 7x - 10	10x - 3 ²			
	6 + 7x - 10			

	ш		СЛ	2				
Algebrai	xpression	11x + 3y	y – 2x + 15	0 + 4x – 4y	lx - 2 + 3γ	5x + 3γ - 9	0y − 2 + 5x	
Expr	× 							
essio	✓ =							
ıs Dice Game – Two Variables (1	Workspace (show expression with substitution for x)							
A)	Findl							

$\frac{36+3}{3}+8x$	$9x - 2 + x^2$	$5\left(\frac{4x}{2}\right)$	$\frac{50-x}{2}$ + (3 X 2)	2 ^x + (12 - x)	$\frac{6x}{2} - 3$	$\frac{50}{x} + 4$	Expression	Algebraic I
							× 	Expres
								sions
							Workspace (show expression with substitution for x)	Dice Game – One Variable (F
							Final Answer	8)

$\frac{45}{5}$ + (2x + y)	$14y - 2 + x^2$	8(x + 5) + y	$\frac{50-x}{2} + 3y$	2 ^x + γ(12 ÷ 4)	$\frac{4x}{2}$ + 21	$\frac{100}{x} + 4y$	Expression	
							× "	
							Y =	
							Workspace (show expression with substitution for x)	
							Findl Answer	

Algebraic Expressions Dice Game – Two Variables (B)

Lesson 7.1 Notes

The *area* of a polygon is the amount of surface it covers. The area of a parallelogram is the product of its base b and its height h: A = bh.

Any side of a parallelogram can be the base. The height must be perpendicular to the base.

EXAMPLE Finding Areas of Parallelograms

Find the area of the parallelogram.



A = bh Write the formula for area of a parallelogram.

= (4)(9) Substitute 4 for *b* and 9 for *h*.

= 36 Multiply.

The area of the parallelogram is 36 square feet.

Sometimes an area needs to be converted into another type of unit.

EXAMPLE Finding the Area of a Parallelogram

Find the area of the parallelogram in square feet.

A = bh Write the formula for area of a parallelogram.

= (7)(4) Substitute 7 for *b* and 4 for *h*.

= 28 Multiply.



h

b

The area of the parallelogram is 28 square yards, but you are asked to find the area in square feet. To convert the area to square feet, use a conversion factor. Notice that $1 \text{ yd}^2 = (1 \text{ yd})(1 \text{ yd}) = (3 \text{ ft})(3 \text{ ft}) = 9 \text{ ft}^2$.

28 yd² = 28 yd² ×
$$\frac{9 ft^2}{1 yd^2}$$
 = 252 ft²

▶ The area of the parallelogram is 28 square yards, or 252 square feet.

7.1 Check for Understanding







What Is A Teacher's Favorite Ice Cream Flavor?

Write the letter of each answer in the box containing the exercise number.

Find the area of the parallelogram.



- 6 ft 7 ft
- **9.** A badminton court has an area of 880 square feet. The width of the court is 20 feet. What is the length of the badminton court?
- **10.** You are playing the game Four Square on a 12-foot by 12-foot court. Your square is 6-foot by 6-foot. What is the area of the Four Square court not including your square?

9	7	3	6	10	1		2	5	8	4
						—				

Lesson 7.2 Notes



EXAMPLE Finding the Area of a Triangle



The base of the triangle is 10 millimeters, and the height is 6 millimeters.

 $A = \frac{1}{2}bh$ Write the formula for the area of a triangle. $= \frac{1}{2}(10)(6)$ Substitute 10 for b and 6 for h. = 5(6) Multiply $\frac{1}{2}$ and 10. = 30 Multiply 5 and 6.

The area of the triangle is 30 square millimeters.

of a triangle. Substitute for the area and the given dimension, then solve for the missing dimension.

EXAMPLE Finding a Missing Dimension

Find the height of the triangle.



- $A = \frac{1}{2}bh$ Write the formula for the area of a triangle.
- $108 = \frac{1}{2}(18)h$ Substitute 108 for *A* and 18 for *b*.
- 108 = 9h Multiply $\frac{1}{2}$ and 18.
- $\frac{108}{9} = \frac{9h}{9}$ Division Property of Equality
- 12 = h Simplify.

So, the height of the triangle is 12 inches.

Find the area of the triangle.





Did You Hear About The...

A	В	С	D	E	F
G	н	I	J		

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.



- I. Your neighbor adds a triangular section to his driveway with a base of 4 feet and a height of 8 feet. What is the area of the new section of driveway?
- J. A triangular flower bed has a base of 12 feet and a height of 28 feet. What is the area of the flower bed?

7.3 Notes

To find the area of a trapezoid, you can decompose the trapezoid into a triangle and a rectangle. Then add the areas of the figures together.

To find the area of a kite, you can decompose the kite into two triangles. Then add the areas of the triangles together.

EXAMPLE Finding Areas of Trapezoids and Kites

Find the area of each figure.

a.



Decompose the trapezoid into a triangle and a rectangle. Find the sum of the areas of the figures.



 $\begin{pmatrix} \text{Area of} \\ \text{trapezoid} \end{pmatrix} = \begin{pmatrix} \text{Area of} \\ \text{triangle} \end{pmatrix} + \begin{pmatrix} \text{Area of} \\ \text{rectangle} \end{pmatrix}$ $A = \frac{1}{2} bh + \ell w$ $= \frac{1}{2} (2)(2) + (3)(2)$ = 2 + 6 = 8

 The area of the trapezoid is 8 square centimeters.



Decompose the kite into two triangles. Find the sum of the areas of the triangles.



• The area of the kite is 72 square inches.

The formula for the area of a trapezoid is $A = \frac{1}{2}h(b_1 + b_2)$.

EXAMPLE Finding the Area of a Trapezoid

Find the area of the trapezoid.





 $A = \frac{1}{2}h(b_1 + b_2)$ Write the formula for the area of a trapezoid. $= \frac{1}{2}(5)(6+8)$ Substitute 5 for *h*, 6 for *b*₁, and 8 for *b*₂. $= \frac{1}{2}(5)(14)$ Add 6 and 8. = 35 Multiply.

• The area of the trapezoid is 35 square feet.

Find the area of the figure.





How Do You Fix A Broken Pizza?

A	В	с	D	E	F
G	Н	1	J	к	

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

	7	
42 in. ²	Find the area of the trapezoid.	9 in. ²
10	A. $b_1 = 8$ in.; $b_2 = 12$ in.; $h = 5$ in.	IT
7 in.² WAS	B. $b_1 = 3$ in.; $b_2 = 7$ in.; $h = 3$ in.	96 in. ² THAT
70 in. ²	C. $b_1 = 10$ in.; $b_2 = 14$ in.; $h = 8$ in.	100 in ²
КЕРТ	D. $b_1 = 7$ in.; $b_2 = 17$ in.; $h = 7$ in.	DID
49 in. ² DRIVE	E. 7 in. F. 4 in.	50 in. ² THE
84 in.² WASN'T	4 in.	90 in. ² WOULD
54 in. ² HARD	G. H. 9 in.	21 in. ² MEMORY
60 in. ² KEYS	7 in. 8 in.	30 in. ² CRASHING
15 in. ² COMPUTER	8 in. 11 in. I. 4 in. 15 in.	18 in. ² BOOTING
80 in. ² BECAUSE	2 in. 20 in.	32 in. ² ALLOWED
	5 in.	

K. A rearview mirror is in the shape of a trapezoid that is 11 inches long across the bottom, 9 inches long across the top, and 3 inches high. What is the area of the rearview mirror?

BUDD GAME DIRECT	ONS
Supplies Needed : Each player needs 2 dice and 10 game pieces. Game or any other pieces that allow each player to have a unique color. Each	pieces can be 2-sided, color counters, snap cubes, ו set of 2 opponents should share 1 game board.
Getting Started : To determine who goes first, each student should roll and find the sum. The player with the greatest sum goes first. If there	his or her dice is a tie, roll again.
Playing the Game : The first player should again roll his or her dice and Then, he or she should find that sum on the chart and perform the mause a marker to cover the corresponding answer on the top of the gam	find the sum. :hematical task in that row. Next, that player should e board.
Next, the second player takes a turn. If the answer already has a marke board and replace it with his or her own marker. If a player has put two markers on a space, the space is locked and the ma longer be bumped.	er on it, the player can bump the marker off of the rkers can no
Winning the Game : The first player to place all ten of his or her marke before any player has placed all 10 pieces of the board, then the playe the winner.	rs on the board is the winner. If time runs out with the most pieces on the board at that time is









28=4(7) 84-12=7



4=125

4(4)=16



7.1 Check for Understanding
1.
$$5 \times 3 = 15 \text{ in}^2$$

2. $8 \times 6 = 48 \text{ Ft}^2$
7.1 Puzzle
CHALK-O-LATE
7.2 Check for Understanding
1. $\frac{9 \times 8}{2} = 36 \text{ m}^2$
2. $\frac{10 \times 25}{2} = 125 \text{ in}^2$

3.
$$\frac{25 \times 12}{2} = 150 \text{ ft}^2$$

7.2 Puzzle - Dog that swallowed a watch and ended up with ticks.

7.3 Check for understanding
1.
$$2(g \ln^{2} 2.35 \text{ mm}^{2} 2.8 \times 7 = 9.8$$

 $4 \times 0 = 26$
 $7 = \frac{4 \times 0}{2} = 26$
 $7 = \frac{3.6}{2.8 \times 7} = \frac{2.8 \times 7}{2} = 9.8$
 $7 = \frac{3.6}{2.5 \times 2} = \frac{2.8 \times 7}{2} = 9.8$
 $7 = \frac{3.6}{2.5 \times 2} = \frac{2}{6.4} = \frac{4}{2.8}$
 $2.5 \times 2 + 9.8 = 35$
 $A = \frac{1}{2}h(b_{1}+b_{2})$
 $= \frac{1}{2}(7)(6.4+3.6)$
 $= \frac{1}{2}(4)(8+6)$
 $= \frac{1}{2}(4)(14)$
 $= \frac{1}{2}(7)(10)$
 $= 35$



6) 78 cm²

48+30 = 78



7.3 Puzzle

The computer that wasn't allowed to drive because it kept crashing.