

MLC
MTH060 Review Problems for Test 1

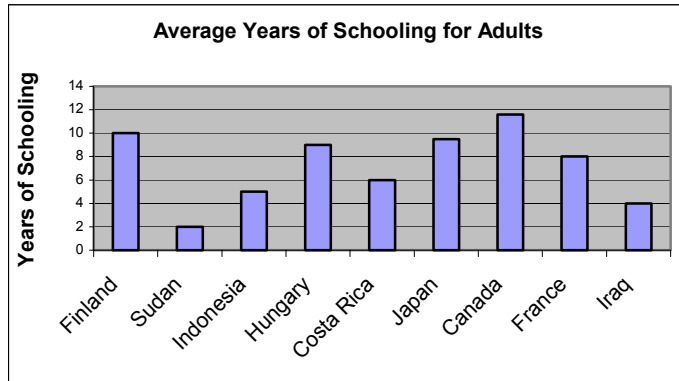
This is not a sample test. These problems are designed to get you started on your review for the test. Study the homework and your textbook for a more complete review. Do your work on another sheet of paper.

Section 1.1

1. Use the table to write a mathematical sentence that describes the number of miles Bob cycled in terms of the number of miles Paul cycled.

Paul's miles	4	7	9	12
Bob's miles	20	35	45	60

2. The figure shows the average number of years of schooling for adults in certain countries.



- a) Which country has the greatest average years of schooling for adults?
- b) Which country has the least average years of schooling for adults?
- c) On average, how many more years of schooling do adults in Finland have than adults in Iraq?
- d) What country averages approximately 5 years of schooling for adults?

Section 1.2

3. Write each phrase as an algebraic expression.
- | | |
|-----------------------------|--------------------------------|
| a) the product of 5 and c | b) the quotient of b and y |
| c) the ratio of x to 2 | d) the difference of b and 6 |

Section 1.3

4. Evaluate the expression $\frac{90}{x}$ for the given values of x to complete the table.

x	2	3	5	9	15	18	20
$\frac{90}{x}$							

5. Evaluate the expressions for $b = 3$, $n = 4$, and $g = 8$.
- | | | |
|---------|-------------------|----------|
| a) $5b$ | b) $\frac{g}{12}$ | c) bng |
|---------|-------------------|----------|

Section 1.4

6. a) To determine his grade in the class, Bill should divide his total points by 610. Use p for the total number of points Bill has, and then write an expression for Bills grade.
b) If Bill earned 549 points, what is his grade in the class?
7. a) Write an expression for the distance that a runner travels in t seconds at a speed of 8 feet per second.
b) How far will the runner travel in 3 seconds?

Section 1.5

8. Use the table to write an equation that expresses the second variable in terms of the first.

q	r
9	3
12	4
18	6
27	9

9. Write an equation that describes the situation: After Jim gained 16 pounds he weighed 225 pounds. How much did he weigh before he gained weight?

Section 2.1

10. Solve the equations. Check your solutions.

a) $12 = x + 5$

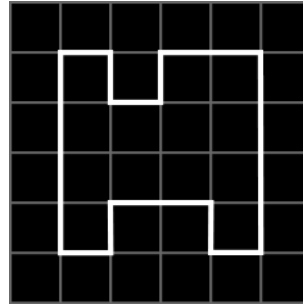
b) $m - 5 = 13$

c) $\frac{b}{7} = 35$

d) $3t = 24$

Section 2.2

11. If the grid is in centimeters, find the perimeter and area of the figure:



Section 2.3

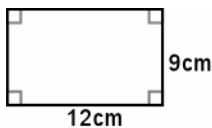
12. Find a formula and evaluate it to answer the question: Susan drove her car for 605 miles on 11 gallons of gas. What is the fuel efficiency of Susans car?

13. Solve the formulas: a) $x + 13.7 = 14.9$ b) $5t = 3.7$

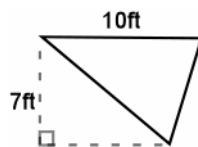
Section 2.4

14. Find the areas of the figures:

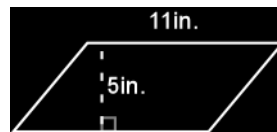
a)



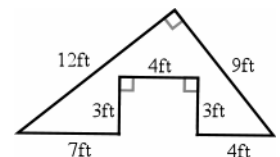
b)



c)



d)



Section 2.5

15. Translate the problems into equations. Let x stand for the unknown number. Solve the equations.

a) 7 less than a number is 48. What is the number?

b) The quotient of a number and 4.5 is 9. What is the number?

c) There is one boat for each 4 fishermen. If there are 25 boats, how many fishermen are there?