

Test #1

Directions: Please show all your work since partial credit is given. Answers without the necessary work will receive no credit. And remember, have fun!

1. Find the place value of the 5 in the following numbers

- a) 35,410,231 _____ b) 744,283,541 _____

2. Write the following numbers in expanded form.

- a) 109,407 b) 2,005,609
- _____

3. Translate each statement and simplify.

- a) Subtract 17 from 98 c) Three times the sum of 13 and 5
- _____

- b) The quotient of 69 and 3 d) The difference of 9 times 5 and 4
- _____

4. Simplify the following expressions.

a) $4(3x + 5)$

d) 6^4

b) $15 - 2(7 - 1)$

e) $15 + 4 \cdot 18 \div 9 - 2^2$

c) $40 - 3 \cdot 10 - 2^3 \div 4$

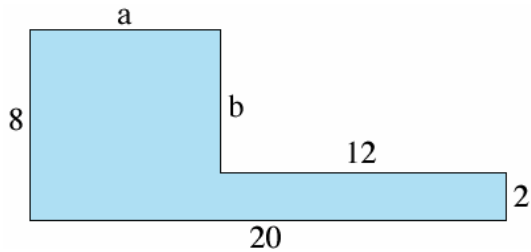
f) $3(x - 2)$

5. CJ is paid \$8 for each test that he proofreads. How much will he be paid *in total* for proofreading 29 tests one day and 38 tests the next?

6. Find the perimeter and area of the composite figure shown below. All measurements are in feet. Make sure to include the correct units.

Perimeter = _____

Area = _____



7. Place either $<$ or $>$ between each of the following pairs of numbers so that the resulting statement is true.

a) 2 _____ -13

c) $|-5|$ _____ 4

b) -11 _____ -7

d) $-|-4|$ _____ $|2|$

8. Simplify each of the following expressions.

a) $-|-9|$

b) $-14 + 7$

c) $-96 + (-31)$

d) $-9 + 5 + (-10)$

9. Britney earned \$134 waiting tables on Monday, spent \$115 on shoes on Tuesday, and made \$50 babysitting on Friday. Write the situation using positive and negative numbers and addition. Then simplify.

10. Simplify completely.

a) $-18 - (-35)$

b) $8 + (-4) + 7$

c) $(9 - 7)(2 - 5)$

d) $-7(-4)$

e) $4(-7x + 2)$

f) $\frac{-16}{2}$

11. Translate into an expression and simplify, if possible.

a) Find the sum of -22 and -17 .

b) Find the quotient of 45 and -5 .

12. The average high temperature for January in Minneapolis is 21° F. The average low temperature for that month is -22° F. What is the difference between the average high and low temperatures?

13. Reduce the following fractions to lowest terms.

a) $\frac{16}{28}$

b) $\frac{150a}{45a}$
