

UNIT 2 TEST Tutor Practice

- 1) Simplify: $4[(3 - 5) + 3(-3 - 2)]$

- 2) Evaluate: $5m^2 - 3k$ for $m = -2$ and $k = 2$

- 3) Simplify: $14 - 2(-9k + 7) - 30k$

- 4) Simplify: $3 + 4(-2x^2 + 5) - 6x^2$

- 5) Solve: $-3(m + 2) = 4(m - 5)$

- 6) The perimeter of a rectangular frame is 70 inches. The width of the frame is 3 more than the length. What are the measurements for the width and length of the frame?

- 7) Connor has 5 more than 3 times as many cookies as Jim. Together they have 21 cookies. Find the number of cookies Jim has.

- 8) Mike has 10 books and Ike has 15 books. If Mike get 3 books per month and Ike gets 2 books per month, how many months will it take for them to have the same number of books?

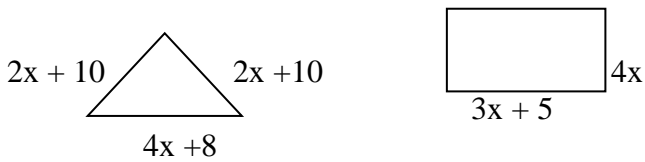
- 9) If a number n is added to 15, the result is 5 less than 6 times n . What is the value of n ?

10) Write an equation for each problem, then solve. Show your work. Make sure you answer the question.

Jill's job is baking cakes. Her pay is \$9 per hour. She also makes \$12 per hour for any time over 40 hours that she works in one week. she worked 40 hours last week plus some overtime hours and made \$552. How many overtime hours did she work?

11) The figures have the same perimeter.

Find the perimeter of the triangle and the rectangle.



12) Find 4 consecutive odd integers whose sum is -56.

13) Compare and contrast a constant and a coefficient.