Getachew and Malathy,

Here is a math skills quiz from: Ballard, C. and Johnson, M. “Basic Math Skills and Performance in an Introductory Economics Class”. *The Journal of Economic Education*. 2004.

Mark

1. Solve the following system of equations for x:

x = y- 6, y= 10

(a) -60
(b) 10/6
(c) 3
 (d) 4
(e) -4

2. Solve the following system of equations for x:

y = 2x +3, y = 3x

(a) 0
(b) 3
(c) 3/5
(d) -3/2
(e) none of the above

3. Suppose that



Then if a = 6 and b = 2, solve for x.

(a) 12
(b) 8
(c) 3
(d) 4
(e) 1/3

4. Suppose that



Then if x = 4 and b = 2, solve for a.

(a) 1/2
(b) 2
(c) 4
(d) 8
(e) 16

5. Suppose



Then if x = 4 and a = 8, solve for b.

(a) 1
(b) 2
(c) 32
(d) 4
(e) 1/2

6. Perform the following division:



(a) 3
(b) 3/2
(c) 3/4
(d) 4/3
(e) 1/3

7. Find the area of the right triangle drawn below.



The length of side a = 3 and the length of side b = 4, and the length of side c = 5.

The area of the triangle is:

(a) 3
(b) 4
(c) 6
(d) 12
(e) 25

8.


The coordinates of point A are (1,2) and the coordinates of point B are (2,4). Find the slope of the line.

(a) 1/2
(b) 1
(c) -1
(d) 2
(e) -2

9.


The coordinates of point C are (1,4) and the coordinates of point D are (5,2). Find the slope of the line.
(a) 1/2
(b) -1/2
(c) 2
(d) -2
(e) 5/4

10. Suppose you want to carpet a rectangular room that is 6 feet by 12 feet. Carpet costs $10 per square yard. Note that 1 yard = 3 feet. How much does it cost to carpet the room?
(a) $720
(b) $2160
(c) $240
(d) $80
(e) $8