Exit Assessment

West Los Angeles College

Mathematics Division

Common Final Assessment

Math 110/112 Fall 2012

Form C Test number ____

Phones, notes, books, and calculators are NOT ALLOWED on this test.

There are twenty-five questions. You will have 1 hour and 15 minutes to complete the test. Record your answers on a Scantron form. Make sure that your name, the form, and the test number are on the scantron.

USE THE SCRATCH PAPER PROVIDED. DO NOT WRITE ON THE TEST. RETURN ALL SCRATCH PAPER ALONG WITH THE TEST AND THE SCANTRON.

1. Round $7,942.6358$ to the nearest hundred.

   (a) 7942.64, (b) $7,800$, (c) $7,900$, (d) $7,942.636$

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2. Solve: $2.1 + 3x = -4.5$

   (a) -3.4, (b) -0.8, (c) -7.2, (d) -2.2

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3. The first step in evaluating $5 + 4(7 - 5)^2 =$ according to the order of operations is

   (a) Subtraction, (b) Exponent, (c) Multiplication, (d) Addition

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4. When a number is subtracted from -15, the result is -20. Find the number

   (a) -5, (b) -35, (c) 5, (d) 35

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5. Solve $3x - 5 = 5x + 6$

   (a) $\frac{11}{8}$, (b) $-\frac{1}{8}$, (c) $-\frac{11}{2}$, (d) $\frac{11}{2}$

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6. Albert earns \$70 more per week than Bee. Together they earn \$570 per week. How much does Albert earn per week?

   (a) 70, (b) 250, (c) 285, (d) 320

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7. A pilot flew flew $1,740$ miles in 6 hours. At that rate, how far would he be in 1 hour?

   (a) 290 mi, (b) $1,734$ mi, (c) $10,440$ mi, (d) 350 mi

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8. At a concert, $\frac{3}{10}$ of the audience members were children. What fraction of the audience members were **not**children?

(a) $\frac{10}{3}$, (b) $\frac{7}{10}$, (c) $\frac{3}{7}$, (d) $-\frac{3}{10}$

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9. Simplify: $\frac{9 \cdot 6 + 9}{-21}$

(a) $-\frac{27}{7}$, (b) $-\frac{45}{7}$, (c) -3, (d) $54\frac{4}{7}$

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10. Simplify completely: $5 + 2(3x + 4) - x$

(a) $6x + 13$, (b) $20x + 28$, (c) $5x + 9$, (d) $5x + 13$

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11. Solve : $\frac{1}{3}x = 6$

(a) 18, (b) 2, (c) $5\frac{2}{3}$, (d) 9 mi

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12. A student answered 70% of the questions on a test correctly. There were 40 questions on the test. How many questions did the student answer correctly?

(a) 70, (b) 28, (c) 30, (d) 12

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13. Divide: -0.5 by 0.002

(a) -250, (b) -0.004, (c) -0.025, (d) -400

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14. Which fraction is the largest?:

(a) $\frac{5}{4}$ (b) $\frac{4}{5}$, (c) $\frac{4}{3}$, (d) $\frac{3}{4}$

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15. Which expression correctly represents this verbal expression:
Four times the sum of a number and the square of the number.

(a) $4(n+n^2)$, (b) $4(n+x^2)$, (c) $4(n)+n^2$, (d) $4(n+n)^2$

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16. Convert $5\frac{1}{3}\%$ to a fraction:

(a) $\frac{16}{30}$, (b) $\frac{4}{75}$, (c) $\frac{4}{25}$, (d) $\frac{16}{100}$

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17. You buy a pair of shoes for \$60.00. The tax rate is 9%. How much tax do you have to pay?

(a) \$69.00, (b) \$9.00, (c) \$5.40, (d) \$60.09

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18. A donut shop sells an order of 3 medium coffees for \$1.20 each and 5 muffins each for \$0.80. What is the total cost?

(a) \$8.00, (b) \$2.00, (c) \$2.08, (d) \$7.60

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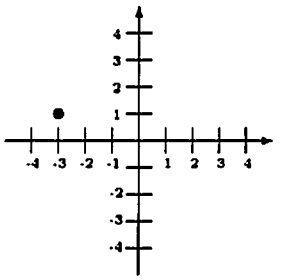
19. What are the coordinates of the given point?

(a) $(-3,1)$, (b) (3.1), (c) $(1,-3)$, (d) $(-1,3)$



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20. Solve $\frac{42}{x} = \frac{6}{11}$

(a) $\frac{11}{7}$, (b) 77, (c) $22\frac{10}{11}$, (d) 47

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21. The area of a rectangle is $41\frac{1}{4}$ ft^2 and its length is $7\frac{1}{2}$ ft. Find the width of the rectangle.

(a) $\frac{2}{11}$ ft, (b) $309\frac{3}{8}$ ft, (c) $5\frac{1}{2}$ ft, (d) $13\frac{1}{8}$ ft

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22. Simplify completely: $\frac{x^4y^2}{x^3y^3}$

(a) $\frac{x^7}{y^5}$ ft, (b) $\frac{y}{x}$, (c) 1, (d) $\frac{x}{y}$

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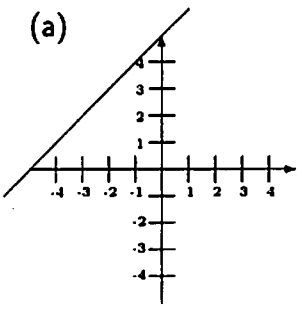
23. Which graph represents the equation $x + y = 5$?

(a)



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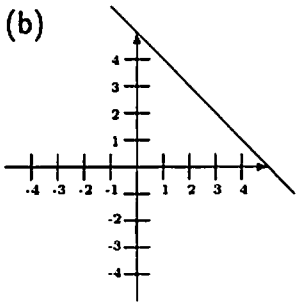

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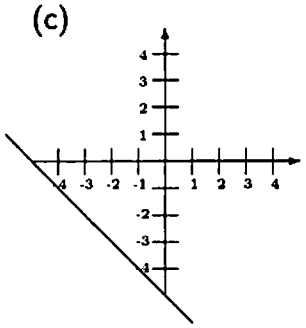

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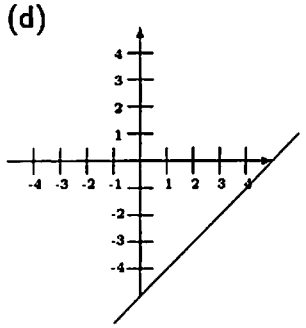

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24. An inspector found 4 defective parts in a shipment of 200 parts. At this rate, how defective parts would be defective in a shipment of 1000 parts?

(a) 16, (b) 20, (c) \$800, (d) about 80

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25. Use the formula $A = \frac{1}{2}bh$ to find the area of triangle with a base of 6 inches and a height of 9 inches.

(a) 21, (b) 54 in^2, (c) 27 in^2 (d) 30 in
