

EOCT Practice-Coordinate Algebra

- Jacob needs less than 5 C's on his transcript to qualify for UGA. He already has 1 C. At most, how many more C's can he get before he won't be able to go to UGA? Write an inequality and solve.
A) $x + 1 \leq 5$; $x \leq 4$
B) $x + 1 \geq 5$; $x \geq 4$
C) $x + 1 < 5$; $x < 4$
D) $x + 1 > 5$; $x > 4$
- A printing company uses the formula $C = 0.5x + 10$ to find the cost of printing x business cards. Which equation correctly solves the formula for x ?
A) $x = 2C - 20$
B) $x = -2C + 20$
C) $x = \frac{C + 10}{0.5}$
D) $x = \frac{C - 0.5}{10}$
- The amount of paint a painter needs is directly proportional to the area of the object he is painting. If a painter needs g gallons of paint for every s square feet that he paints, what is the total amount of paint that he needs to paint a house in terms of g and s ?
A) gs
B) $g - s$
C) $g + s$
D) $\frac{g}{s}$
- Michael and Minnie are gathering coats for a coat-drive at their school. Minnie gathers 3 times as many coats as Michael and together they have 52 coats. How many coats did Michael contribute?
A) 13
B) 15
C) 39
D) 41
- Alex belongs to a music club. Club membership entitles him to buy a discount card for \$19.95. The card allows him to buy CDs for \$3.95 each. After one year, Alex has spent \$63.40. How many CDs did he buy?
A) 9 CDs
B) 10 CDs
C) 11 CDs
D) 12 CDs
- According to the 2000 Census the population of Canton was 7,720. Holly Spring's population was 3,200. Canton's population increases at a rate of 80 people a year and Holly Spring's population increases by 120 people a year. Which equation may be used to determine the number of years before the populations are equal?
A) $200x = 10920$
B) $7720 + 12x = 3200 + 80x$
C) $7720x + 80 = 3200x + 120$
D) $7720 + 80x = 3200 + 120x$
- Aaron was watching a bike race. Every second, x , he recorded how many bikes, y , crossed the finish line. Which equation shows the relationship between the time and the number of bikes that cross during that time?

x	y
1	2
2	4
3	6
4	8
5	10

- A) $y = 2x$
B) $y = 3x$
C) $y = x + 2$
D) $y = x - 2$

Eoct Coordinate Algebra Unit 6 Test

Jin-Ying Zhang



Eoct Coordinate Algebra Unit 6 Test:

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