

The Official Guide for GMAT Quantitative Review 2017

Thank you for purchasing *The Official Guide for GMAT Quantitative Review, 2017*. Corrections to the text are noted in yellow below.

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Chapter 4

Page 83, #152:

$$2x + y = 12$$

$$|y| \leq 12$$

Page 121, #110 Answer Explanation:

110. On the number line, if $r < s$, if p is halfway between r and s , and if t is halfway between p and r , then $\frac{s-t}{t-r} =$

Page 144, #171 Answer Explanation:

171. If n is a positive integer and n^2 is divisible by 72, then the largest positive integer that must divide n is

- (A) 6
- (B) 12
- (C) 24
- (D) 36
- (E) 48

Arithmetic Properties of numbers

Since n^2 is divisible by 72, $n^2 = 72k$ for some positive integer k . Since $n^2 = 72k$, then $72k$ must be a perfect square. Since $72k = (2^3)(3^2)k$, then $k = 2m^2$ for some positive integer m in order for $72k$ to be a perfect square. Then, $n^2 = 72k = (2^3)(3^2)(2m^2) = (2^4)(3^2)m^2 = [(2^2)(3)(m)]^2$, and $n = (2^2)(3)(m)$. The positive integers that MUST divide n are 1, 2, 3, 4, 6, and 12. Therefore, the largest positive integer that must divide n is 12.

The correct answer is B.

Chapter 5

Page 157, #210:

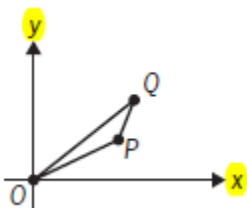
210. If x is a positive integer, what is the value of x ?

- (1) $x^2 = \sqrt{x}$
- (2) $\frac{n}{x} = n$ and $n \neq 0$.

Page 160, #245:

245. If $abc \neq 0$, is $\frac{\frac{a}{b}}{c} = \frac{a}{\frac{b}{c}}$?

Page 161, #262:



Page 172, #192 Answer Explanation:

as $2(x + y) + 5y = 64$, or $x + y = \frac{64 - 5y}{2}$.

Page 179, #210 Answer Explanation:

210. If x is a positive integer, what is the value of x ?

- (1) $x^2 = \sqrt{x}$
- (2) $\frac{n}{x} = n$ and $n \neq 0$.

Page 190, #245 Answer Explanation:

245. If $abc \neq 0$, is $\frac{\frac{a}{b}}{c} = \frac{a}{\frac{b}{c}}$?

- (1) $a = 1$
- (2) $c = 1$

Algebra Fractions

Since $\frac{\frac{a}{b}}{c} = \frac{a}{b} \div c = \frac{a}{b} \times \frac{1}{c} = \frac{a}{bc}$ and

$\frac{a}{\frac{b}{c}} = a \div \frac{b}{c} = a \times \frac{c}{b} = \frac{ac}{b}$, it is to be

determined whether $\frac{a}{bc} = \frac{ac}{b}$.