Gmat Quantitative Reasoning Practice Questions

Section: GMAT Quantitative Reasoning Exams • **Total Questions:** 10 • **Format:** Verified Q&A

1. If a b c positive integers what is the positive square root of (a^2 b^16)(a c^2)^(-2)?

(A) b^4 c^2
(B) b^8 c^(-2)
(C) a b^4 c^2
(D) a b^8 c^(-2)
(E) a b^8 c^(-3)

2. Three friends, A, B, and C, invest money in the ratio 2:3:5. After 6 months later, A invests another amount equaling $35,000, while C withdraws $15,000. The ratio of investments then changes to 11:6:7. What is the ratio of profit sharing at the end of the year if profit sharing is determined by the amount of money invested weighted by the time spent in the investment?

(A) 5:02:06
(B) 9:05:12
(C) 10:06:15
(D) 15:12:17
(E) 18:16:25

3. If y is the number on the number line between 10 and 40 that is three × as far from 10 as from 40, then what is the value of y?

(A) 31.66666667
(B) 32
(C) 32 1/3
(D) 32.5
(E) 33

4. How much less, in dollars, was the total cost of Andrew's order compared to the sum of the total costs for Matthew's 2 orders?

> *The total cost of an order from a certain catalog company consists of 2 separate charges-a charge for the items in the order and a charge for shipping the order. Each of these 2 separate charges is based on the number of items per order, as shown in the graphs above. Andrew placed 1 order for 400 items. Matthew placed 2 orders, one for 100 items and the other for 300 items.*

(A) $20
(B) $35
(C) $45
(D) $55
(E) $60

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5. If x% of 24 = 3y/10 and y% of 25 = (x + 5)/6 what is (x% of y) + (y% of x)?

(A) 10
(B) 25
(C) 30
(D) 50
(E) 60

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6. A manufacturer regularly receives shipments of computer chips. Over the past year the mean number of computer chips per shipment was 1200. If a shipment of 1456 chips was 1.6 standard deviations above the mean how many standard deviations below the mean was a shipment of 848 chips?

(A) 1.3
(B) 1.4
(C) 1.7
(D) 2
(E) 2.2

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7. A certain factory normally produces 500 units per hour for a 7(1/2)-hour workday. In a month with 22 workdays, no units are produced in the first 7 days because of a job action. By how many units must production increase on each of the remaining workdays of the month in order to meet normal production levels for the month?

(A) 500
(B) 688
(C) 1,750
(D) 3,750
(E) 5,500

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8. (1/25)^3 =

(A) (0.008)^3
(B) (0.04)^3
(C) (0.2)^3
(D) (0.2)^5
(E) (0.25)^3

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9. If 1/m + 1/r = x and m + r = y then xy equals which?

(A) None
(B) I only
(C) II only
(D) III only
(E) II and III

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10. Let a > 0, b > 0, and 2 > 3b. If (2a + 3b) : (2a - 3b) = 7 : 5, then which of the following is equivalent to $(4a^2 + 9b^2) : (4a^2 - 9b^2)$?

(A) 3:5
(B) 55:53:00
(C) 37:35:00
(D) 5:3
(E) 49:25:00