GRE Exam Cram

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Warning and Disclaimer

Second Printing Corrections

Pg	Error	Correction
Cram Sheet (back)	Number 6 under the "General Math Concepts" section: 6. The volume of a cylinder is $V = \pi\, r2h$, where r is the radius of one of the bases of the cylinder and h is the height of the cylinder.	6. The volume of a cylinder is $V = \pi\, r^2 h$, where r is the radius of one of the bases of the cylinder and h is the height of the cylinder.

Cram Sheet (back)	Number 23 under the "General Math Concepts" section: 23. When multiplying expressions with the same base, add the exponents.	23. When multiplying **exponential** expressions with the same base, add the exponents.
Cram Sheet (back)	Number 24 under the "General Math Concepts" section: 24. When dividing expressions with the same base, subtract the exponents.	24. When dividing **exponential** expressions with the same base, subtract the exponents.
xxxiii	Number 1, under the section, "Verbal Section-Analogies-Answer Key and Explanations" An "antisocial" neighbor would probably not be friendly, a "hostile" environment would not be a "friendly" environment, and an "aggressive" utterance would probably not be a "friendly' utterance, so answer choices A, B, and ~~D~~ do not best express the same relationship as that expressed in the question. Although "benign" is similar in meaning to "cordial," the relationship between "benign" and "tumor" is not the same as the relationship that exists between "cordial" and "greeting." ~~You do not offer a "tumor."~~	An "antisocial" neighbor would probably not be friendly, a "hostile" environment would not be a "friendly" environment, and an "aggressive" utterance would probably not be a "friendly' utterance, so answer choices A, B, and **E** do not best express the same relationship as that expressed in the question. Although "benign" is similar in meaning to "cordial," the relationship between "benign" and "tumor" is not the same as the relationship that exists between "cordial" and "greeting." **Answer choice D is incorrect.**
xxxiv	Number 3: 3. The best answer is D. The relationship that exists between "polite" and "~~sincere~~" can be expressed	3. The best answer is D. The relationship that exists between "polite" and "**solicitous**" can be expressed with the following sentence: A polite person is

	with the following sentence: A polite person is solicitous.	solicitous.
xliii	Question 1: Answers (A) n (B) n^2 (C) n^3 (D) $n̶^4̶$ (E) $n̶^5̶$	(A) n (B) n^2 (C) n^3 (D) $n^{\mathbf{5}}$ (E) $n^{\mathbf{7}}$
xiv	Answer 1: 1. The correct answer is B̶. To solve this problem, simplify both the numerator and denominator. Apply the rules of exponents, as follows:	1. The correct answer is **E**. To solve this problem, simplify both the numerator and denominator. Apply the rules of exponents, as follows:
46-47	Answer 17: 17. The best answer is E. A "chisel" is a tool that is used to "carve" or shape materials. A general sentence that can be used to describe the analogy is: A "___" is a tool that makes it possible to "___" something. Answer choice E is correct because a "scalpel" is a tool that is used to "operate" on a patient. An "athlete" "competes," but an athlete is not a tool. Likewise, a "courtroom" is not a tool that makes it possible to "judge," and an "artist" is not a tool that makes it possible to "sculpt," so answer	17. The best answer is E. A "chisel" is a tool that is used to "carve" or shape materials. A general sentence that can be used to describe the analogy is: A "___" is a tool that makes it possible to "___" something. Answer choice E is correct because a "scalpel" is a tool that is used to "operate" on a patient. An "athlete" "competes," but an athlete is not a tool. Likewise, a "courtroom" is not a tool that makes it possible to "judge," and an "artist" is not a tool that makes it possible to "sculpt," so answer choices A, B, and C are incorrect. Answer choice **D** is

	choices A, B, and C are incorrect. Answer choice E̶ is incorrect because a "rake" is not necessary to "forage."	incorrect because a "rake" is not necessary to "forage."
63	Answer 17: 17. The best answer is E. The information following the semicolon indicates that crop rotation is a good and probably necessary thing. Therefore, the best word for the blank will be a synonym for "good" or "necessary." "Crucial" means "extremely important," so it is the best choice. Both "aesthetic" and "incidental" imply that crop rotation is not necessary or important, so eliminate answer choices A and D. "Didactic" and "pedantic" both relate to "teaching" or "learning" and do not appropriately complete this sentence; eliminate answer choices B and G̶.	17. The best answer is E. The information following the semicolon indicates that crop rotation is a good and probably necessary thing. Therefore, the best word for the blank will be a synonym for "good" or "necessary." "Crucial" means "extremely important," so it is the best choice. Both "aesthetic" and "incidental" imply that crop rotation is not necessary or important, so eliminate answer choices A and D. "Didactic" and "pedantic" both relate to "teaching" or "learning" and do not appropriately complete this sentence; eliminate answer choices B and **C**.
100	Bullet in middle of the page: [lb] Finding common factors, such as: $x^2 - 2x = x(x + 2)$	[lb] Finding common factors, such as: x^2 **+** $2x = x(x + 2)$
106	3rd bullet on page: [lb] $\sqrt{(4)(8)} = 2\sqrt{8}$	$\sqrt{(16)(2)} = 4\sqrt{2}$
112	Number 3: If the kitchen is square, what is the ratio of the area of the kitchen to the area of the dining room?	If the kitchen is square, what is the ratio of the area of the kitchen to the area of the dining room? (A) 1 : 3

	(A) 1 : 3 (B) ~~9 : 20~~ (C) 1: 2 (D) 8 : 11 (E) 2 : 1 If the kitchen is square, that means the area is 8^2, o ~~36~~ square feet. The area of the dining room must be 8 X (18 - 8), or 80 square feet. Therefore, the ratio of the area of the kitchen to the area of the dining room is ~~36~~:80, which can be reduced to ~~9:20~~.	(B) **4 : 5** (C) 1: 2 (D) 8 : 11 (E) 2 : 1 If the kitchen is square, that means the area is 8^2, or **64** square feet. The area of the dining room must be 8 X (18 - 8), or 80 square feet. Therefore, the ratio of the area of the kitchen to the area of the dining room is **64**:80, which can be reduced to **4:5**.
115	Text below first figure on the page: Column A Column B The area of rectangular The area of triangular region AB~~CD~~ region BDF You can calculate the area of rectangular region AB~~CD~~ by multiplying the length (8) by the width (4) to get 32.	Column A Column B The area of rectangular The area of triangular region AB**DC** region BDF You can calculate the area of rectangular region AB**DC** by multiplying the length (8) by the width (4) to get 32.
122	Paragraph immediately following the last bullet on the page: You can see that during 4 years as shown on the graph, County M's expenditures exceeded County O's expenditures by more than ~~$500,000~~, answer	You can see that during 4 years as shown on the graph, County M's expenditures exceeded County O's expenditures by more than **$750,000**, answer choice C.

	choice C.	
146	Question 12, Answers: (A) -2,375 (B) -1,200 (C) 0 (D) ~~975~~ (E) 2,825	(A) -2,375 (B) -1,200 (C) 0 (D) **2,375** (E) 2,825
149	Question 23: Column A Column B 2(6.3) 7(6.3) + 0.2(6.3)	Column A Column B **7.**2(6.3) 7(6.3) + 0.2(6.3)
160	Final bullet on the page: [lb] 135° - 180° + 135° = 90	[lb] 135° - 180° + 135° = 90**°**
164	Question 22: The two equations should look like the equations in the next column.	$$\frac{\left(\frac{2}{3}t - 4\right)}{t}$$ $$\frac{3}{3}\left[\frac{\left(\frac{2}{3}t - 4\right)}{t}\right]$$
	Question 27:	

165	27. The answer is C. To solve this problem, you must recognize that a cube has six ~~sides~~, and that the total surface area is the total "amount" of the surface of the cube. You are given that the total surface area of the cube is 54, which means that the area of one ~~side~~ of the cube is 56 [db] 6, or 9. This, in turn, means that the length of each side of the cube is 3 because the area of a square is equivalent to a side squared ($9 = 3^2$). The formula for the volume of a cube is length X width X height, so the volume is equal to 3 X 3 X 3, or 27. Draw a diagram to help visualize the solution:	27. The answer is C. To solve this problem, you must recognize that a cube has six **faces**, and that the total surface area is the total "amount" of the surface of the cube. You are given that the total surface area of the cube is 54, which means that the area of one **face** of the cube is 56 [db] 6, or 9. This, in turn, means that the length of each side of the cube is 3 because the area of a square is equivalent to a side squared ($9 = 3^2$). The formula for the volume of a cube is length X width X height, so the volume is equal to 3 X 3 X 3, or 27. Draw a diagram to help visualize the solution:
181	Question 10, Answers: (A) -⅓ (B) ⅓ (C) ⅔ (D) ~~3~~ (E) 6	(A) -⅓ (B) ⅓ (C) ⅔ (D) **-**3 (E) 6
198	Question 10, last line: Therefore, x -⅓	Therefore, x **=** -⅓
236	First line of text directly below Figure B.3: As you just saw in Figure B.**4**, the following	As you just saw in Figure B.**3**, the following calculations hold true:

	calculations hold true:	

This errata sheet is intended to provide updated technical information. Spelling and grammar misprints are updated during the reprint process, but are not listed on this errata sheet.