Questions to be Spiraled



20.

$$-64x^2 + cdx - 3d(64c + d) = 0$$

In the given equation, c and d are integer constants. The sum of solutions of the given

- A) 64
- B) 1/64
- C) 192

D) -1/3

Solution: B

18.

$$2x^2 + (16j + 5k)x - 14jk = 0$$

In the given equation, j and k are constants. The product of solutions of the given equation is

- A) 16
- B) 5
- C) -14
- D) -7

$$8x^2 - (4a + 4b)x + 156(a + b) = 0$$

In the given equation, a and b are integer constants. The sum of solutions of the given equation is (a+b) q, where q is a constant. What is the value of q?

- A) 1/4
- B) 2
- C) 1/2
- D) 4

Solution: C

18.

$$204x^2 + (12c + 28d)x + 408cd = 0$$

In the given equation, c and d are constants. The product of solutions of the of the given

- A) 2
- B) 4

Solution: A

- C) 12
- D) 1/204

10.

$$4(ax-7b) = \frac{12}{13}x - \frac{14}{17}$$

In the given equation, a and b are constants and b > 1. The equation has no solutions. What is the value of a?

Solution: 3/13 or 0.230 or

11.

$$8(jx-7k) = \frac{17}{10}x-56$$

In the given equation, j and k are constants and k > 1. The equation has

Solution: 17/80 or 0.213

12.

$$\frac{3}{2}(cx-7d) = \frac{18}{11}x - \frac{12}{11}$$

In the given equation, c and d are constants and d > 1. The equation has

Solution: 12/11 or 1.091

11.

$$5(qx-r) = \frac{43}{17}x - \frac{26}{21}$$

In the given equation, q and r are constants and r > 1. The equation has

Solution: 43/85 or 0.505 or

21.	
consistently and publicly expressed the ir change. She believes that there is still time to reverse the effect of fuel emissions, stating that "the health of our planet requires urge action."	of centuries of fossil
Which choice completes the text so that it conforms to the conve English?	ntions of Standard
A) Renowned, environmental scientist, Dr. Elena Millnamow, has B) Renowned environmental scientist, Dr. Elena Millnamow, has C) Renowned environmental scientist Dr. Elena Millnamow has D) Renowned environmental scientist Dr. Elena Millnamow, has	
	Solution: C
20.	
After the recent Boston Pops performance of Vivaldi's opus "The in baroque music, wrote an op-e	
classical music magazine, commending the interpretation. He wro before seen such a faithful performance to the time in which the p "each note tells a unique story of its era."	ote that he had neve
Which choice completes the text so that it conforms to the conve English?	ntions of Standard
A) Seasons" Maestro Giuseppe Ferrara, an expert B) Seasons," Maestro Giuseppe Ferrara an expert C) Seasons " Maestro Giuseppe Ferrara, an expert	Solution: C

D) Seasons" Maestro Giuseppe Ferrara an expert

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In a recent review in the magazine "Film Today," ______ often focuses on international cinema, lauded the 2018 Chinese film "Long Day's Journey into Night." Mitchell praised the film's director, Bi Gan, writing that his "storytelling has no borders or boundaries."

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) film critic, Laura Mitchell, who
- B) film critic Laura Mitchell, who
- C) film critic Laura Mitchell who
- D) film, critic, Laura Mitchell, who

21.

The ______ extensively through Asia, working in kitchens from Cambodia to Bangladesh to Qatar. In his new memoir, Bensti-Enchill connects his travels with his childhood in Ghana, concluding that "culinary art is a universal language that brings people together."

Which choice completes the text so that it conforms to the conventions of Standard English?

- A) innovative chef Nii Ato Bentsi-Enchill has traveled
- B) innovative, chef, Nii Ato Bentsi-Enchill, has traveled
- C) innovative chef Nii Ato Bentsi-Enchill, has traveled
- D) innovative, chef Nii Ato Bentsi-Enchill, has traveled