

Admissions Quiz

Question 1

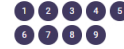
What is the value of x in this equation?

$$2(1 + 10x) = 52$$

- ☐ $\frac{49}{10}$
- ☒ $\frac{50}{20}$
- ☐ $\frac{26}{11}$
- ☐ $\frac{51}{20}$

Time left:
35:15

QUESTIONS



Question 2

Which of these answers would add a key-value pair to the capitals dictionary for Pakistan?

```
capitals = {
    "India": "New Delhi",
    "Nigeria": "Abuja",
    "USA": "Washington, DC"
}
```

- ☐ capitals("Pakistan") = "Islamabad"
- ☐ capitals.add({"Pakistan": "Islamabad"})
- ☐ capitals.update("Pakistan": "Islamabad")
- ☒ capitals["Pakistan"] = "Islamabad"

Question 3

What is the value of y in this equation?

$$y = 15 + 4^2 \times 3$$

- ☐ 61
- ☒ 63
- ☐ 1083
- ☐ 159

Question 4

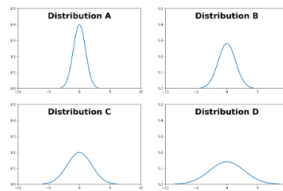
How would you write the following equation in Python?

$$\frac{2 + 4^2}{2}$$

- ☐ (2 + 4^2) / 2
- ☐ (2 + exp(4,2)) / 2
- ☒ (2 + 4**2) / 2
- ☐ (2 + 4^2) / 2

Question 5

Which of these distributions has the largest standard deviation?



- ☐ A
- ☐ C
- ☐ B
- ☒ D

Question 6

How would you complete the print function so that it returns "read"?

```
my_string = "I'm ready"
print(...)
```

- ☒ my_string[5:9]

- ☐ my_string[4:7]
- ☐ my_string[4:8]
- ☐ my_string[5:4]

Question 7

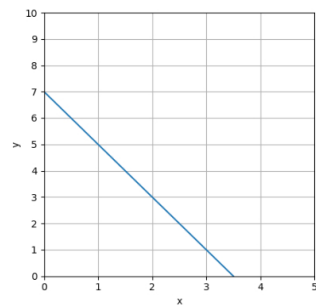
If you randomly chose a country from the list `my_countries`, what is the probability that the country would be located in Europe?

```
my_countries = [  
    "Egypt",  
    "France",  
    "Ghana",  
    "Kenya",  
    "Nigeria",  
    "Spain"  
]
```

- ☒ 0.33
- ☐ 0.5
- ☐ 0.67
- ☐ 1.0

Question 8

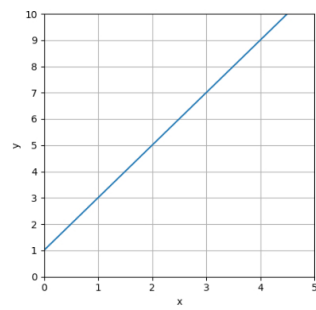
What is the slope of the line in this plot?



- ☐ 7
- ☒ -2
- ☐ -7
- ☐ 3.5

Question 9

Which equation describes the line in this plot?



- ☐ $x = 2y + 1$
- ☐ $x = y + 2$
- ☒ $y = 2x + 1$
- ☐ $y = x + 2$

SUBMIT

