Question 1

Using table df below, what value(s) will you get for df.loc['e']:

	Fruit	Price	Sales	Date
a	Water Melon	2	180	Feb-5-2017
b	Orange	9	480	Jan-1-2017
c	Grapes	7	440	Mar-7-2017
d	Water Melon	3	100	Apr-12-2017
e	Orange	2	160	Feb-5-2017
f	Pineapple	10	480	Nov-18-2017
g	Pineapple	1	440	May-10-2017

Selected Answer: ✅ 2. Orange, 2, 160, Feb-5-2017

Correct Answer: ✅ 2. Orange, 2, 160, Feb-5-2017

Question 2

What is x?

```
s=pd.Series([-2,-1,2,3],index=[0,2,1,3])

x=s[[0,3]].sum()
```

Selected Answer: ✅ 1
Correct Answer: ✅ 1
Answer range +/- 0 (1 - 1)

Question 3

Given the table df below, write the code that will change the price of all the 'Pineapple' with 'Sales' greater than 450, to 8.

	Fruit	Price	Sales	Date
a	Water Melon	2	180	Feb-5-2017
b	Orange	9	480	Jan-1-2017
c	Grapes	7	440	Mar-7-2017
d	Water Melon	3	100	Apr-12-2017
e	Orange	2	160	Feb-5-2017
f	Pineapple	10	480	Nov-18-2017
g	Pineapple	1	440	May-10-2017

Selected Answer: ❌ df.loc[(df['Fruit'] == 'Pineapple') & (df['Sales']>450), 'Price'] = 8
Correct Answer:

Evaluation Method		Correct A
✅ Exact Match		df.loc[(df.F
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✅ Exact Match		df.loc[(df.F
		df.loc[(df.F

Question 4

What is x?

```
a=pd.Series([4,3,2,1],index=['d','c','b','a'])
b=pd.Series([40,30,20,10],index=['d','b','c','a'])
df=pd.DataFrame({'x':a,'y':b})
x=df.iloc[1].sum()
```

Selected Answer: ❌ 23
Correct Answer: ✅ 32
Answer range +/- 0 (32 - 32)

Question 5

What is x?

```
s=pd.Series([-2,-1,2,3],index=['a','b','b','d'])
x=sum(s['b'])
```

Selected Answer: ✅ 1
Correct Answer: ✅ 1
Answer range +/- 0 (1 - 1)

Question 6

What code creates a table df2, that is filtered for Price that are greater than 5 and Sales are greater than 200.

	Fruit	Price	Sales	Date
a	Water Melon	2	180	Feb-5-2017
b	Orange	9	480	Jan-1-2017
c	Grapes	7	440	Mar-7-2017
d	Water Melon	3	100	Apr-12-2017
e	Orange	2	160	Feb-5-2017
f	Pineapple	10	480	Nov-18-2017
g	Pineapple	1	440	May-10-2017

Selected Answer: ✅ 1. df2 = df.loc[(df.Price>5) & (df.Sales>200)]

Correct Answer: ✅ 1. df2 = df.loc[(df.Price>5) & (df.Sales>200)]

Question 7

What is v?

```
a = np.arange(3)
a[1]=2.5
v=sum(a)
```

Selected Answer: ✅ 4
Correct Answer: ✅ 4
Answer range +/- 0 (4 - 4)

Question 8

Using the table df below, what is df.iloc[[3,5],1].sum() ?

	Fruit	Price	Sales	Date
a	Water Melon	2	180	Feb-5-2017
b	Orange	9	480	Jan-1-2017
c	Grapes	7	440	Mar-7-2017
d	Water Melon	3	100	Apr-12-2017
e	Orange	2	160	Feb-5-2017
f	Pineapple	10	480	Nov-18-2017
g	Pineapple	1	440	May-10-2017

Selected Answer: ✅ 13
Correct Answer: ✅ 13
Answer range +/- 0 (13 - 13)

Question 9

For table df below, what code aggregates the Sales by each fruit and then selects the 2 largest aggregations?

	Fruit	Price	Sales	Date
a	Water Melon	2	180	Feb-5-2017
b	Orange	9	480	Jan-1-2017
c	Grapes	7	440	Mar-7-2017
d	Water Melon	3	100	Apr-12-2017
e	Orange	2	160	Feb-5-2017
f	Pineapple	10	480	Nov-18-2017
g	Pineapple	1	440	May-10-2017

Selected Answer:
```
#begin
dft = df.groupby('Fruit')['Sales'].sum()
dft = dft.reset_index()
dft.sort_values('Sales',ascending=False,inplace=True)
dft.head(2)
#end
```
✅ 5.

Correct Answer:
```
#begin
dft = df.groupby('Fruit')['Sales'].sum()
dft = dft.reset_index()
```

Question 10

For table df below, what code takes the average of the Price, by each Fruit, for only the Fruit that have Sales less than 400, and Sales greater than 100? Give the results in ascending order.

	Fruit	Price	Sales	Date
a	Water Melon	2	180	Feb-5-2017
b	Orange	9	480	Jan-1-2017
c	Grapes	7	440	Mar-7-2017
d	Water Melon	3	100	Apr-12-2017
e	Orange	2	160	Feb-5-2017
f	Pineapple	10	480	Nov-18-2017
g	Pineapple	1	440	May-10-2017

Selected Answer: ❌ 1. None of the answers

Correct Answer:
```
#begin
dft = df.loc[(df.Sales>100) & (df.Sales<400)]
dft.groupby('Fruit')['Price'].mean().sort_values()
```
✅ 5. #end

Question 11

What is b?

v=np.array([0,2,1,3])

w=np.array([1,0,2,4])

w=v+w

w[0:2]=v[[1,2]]

b=sum(w)

Selected Answer: ✅ 13
Correct Answer: ✅ 13
Answer range +/- 0 (13 - 13)

Question 12

What is b?

```
a = np.array([2,0,4])

a = a*1.5

a[2]=2.5

b=sum(a)
```

Selected Answer: ✅ 5.5
Correct Answer: ✅ 5.5
Answer range +/- 0 (5.5 - 5.5)

Question 13

What is x?

```
s=pd.Series([-2,-1,2,3],index=['a','b','b','d'])

x=sum(s['b'])
```

Selected Answer: ✅ 1
Correct Answer: ✅ 1
Answer range +/- 0 (1 - 1)

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