Table Data Practice

1. Based on the table below, to the nearest percent, what percentage of tv shows that have 5 or more seasons are from the years between 1995 and 2005? *(calculator)*

Time Period	Less than 1 season	1-4 seasons	5 or more seasons	Total
1985-1995	0	2	1	3
1995-2005	2	4	2	8
2005-2015	5	6	3	14
Total	7	12	6	Time Period

a. 8%
b. 25%
c. 33%
d. 50%

2. Tracy asked the 7th and 8th graders at her school which flavor of ice cream they preferred between chocolate and vanilla. The table below displays a portion of the results. If 25% of the surveyed students who prefer vanilla are in 8th grade, then how many of the surveyed 7th graders at Tracy's school prefer chocolate? *(calculator)*

Preferred Flavor	7th Graders	8th Graders	Total
Vanilla		35	
Chocolate			68
Total	150		

a. 10
b. 45
c. 58
d. 140

3. An instructional video is divided up into four lessons, each with a number of example problems and demonstrations. A table representing this information is shown below. Based on the table, which of the following statements is true. *(calculator)*

Lesson	Example Problems	Demonstrations	Total
1	12	3	15
2	5	6	11
3	7	9	16
4	14	3	17
Total	38	21	59

a. The relative frequency of demonstrations coming from lesson 4 is $\frac{1}{7}$.
b. The relative frequency of demonstrations coming from lesson 2 is $\frac{11}{59}$.
c. The relative frequency of problems in lesson 1 being an example problem is $\frac{1}{5}$.
d. The relative frequency of problems in lesson 3 being an example problem is $\frac{9}{16}$.

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4. Jamie tried three different taxi services to get to work every day for two weeks. In the table below, she recorded whether she was late to work or not each time she used a particular taxi service. According to the table, what is the approximate probability that Jamie is on time given that she used taxi service C? *(calculator)*

Taxi Service	On Time	Late	Total
Taxi Service A	2	2	4
Taxi Service B	3	2	5
Taxi Service C	1	4	5
Total	6	8	14

a. 0.167
b. 0.2
c. 0.33
d. 0.6

5. The mathematics department recently released data on undergraduate enrollment in certain courses and gender distribution. The table below shows this data. Note that students are only allowed to enroll in one of these three courses at this particular school. About how many male students should be enrolled in the real analysis course to provide evidence that enrolling in real analysis is independent of student gender? *(calculator)*

	Differential Equations	Real Analysis	Linear Algebra	Total
Male				155
Female				138
Total	44	107	142	293

a. 37
b. 49
c. 57
d. 107

6. A table below shows the price for different size cakes. For a graduation party, the senior student body president plans to buy five 12-inch diameter cakes, two 14-inch diameter cakes, and one 24-inch diameter cake. *(calculator)*

Cake Radius	Cake Price
4-6 inches	$25
7-9 inches	$35
10-12 inches	$40

What is the average (arithmetic mean) cake price, in dollars, for the 8 cakes? (round to nearest cent)
a. $12.5
b. $29.38
c. $100
d. $235

7. The table below lists the ages of the last 10 United States presidents when they left office. According to the table, what was the mean age, in years, of these presidents at the end of their terms? (Round answer to the nearest tenth.) *(calculator)*

	Age (years)	President	Age (years)
Kennedy	46	Raegan	77
Johnson	60	H.W. Bush	68
Nixon	61	Clinton	54
Ford	63	W. Bush	62
Carter	56	Obama	55

a. 58.4
b. 60.5
c. 60.2
d. 77

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8. According to the table below, what must the value of x be? *(no calculator)*

	A	B	Total
1	x		44
2		28	
3	8		20
Total		56	109

a. 12
b. 16
c. 22
d. 28

9. Given the data in the table below, what is the difference between the number of dogs in shelter A and the median number of dogs in all 5 shelters? *(no calculator)*

Shelter	Number of Dogs
A	14
B	3
C	22
D	17
E	8

a. 0
b. 1.2
c. 14
d. 19

10. The table below shows the number of hours Max spends on his phone every day for two weeks. How much more time does Max spend on his phone on Week 1 on than on Sundays? *(no calculator)*

Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Total
1	6	2	2	3	2	4	7	26
2	8	4	3.5	4	1.5	5	7	33
Total	14	6	5.5	7	3.5	9	14	59

a. 26
b. 24
c. 12
d. 0.5