

- 15 A statistics class surveyed some students during one lunch period to obtain opinions about television programming preferences. The results of the survey are summarized in the table below.

Programming Preferences		
	Comedy	Drama
Male	70	35
Female	48	42

Based on the sample, predict how many of the school's 351 males would prefer comedy. Justify your answer.

- 16 A survey of 100 students was taken. It was found that 60 students watched sports, and 34 of these students did not like pop music. Of the students who did *not* watch sports, 70% liked pop music. Complete the two-way frequency table.

	Watch Sports	Don't Watch Sports	Total
Like Pop			
Don't Like Pop			
Total			

- 17 A survey of 150 students was taken. It was determined that $\frac{2}{3}$ of the students play video games. Of the students that play video games, 85 also use social media. Of the students that do not play video games, 20% do not use social media. Complete the two-way frequency table.

	Play Video Games	Do Not Play Video Games	Total
Social Media			
No Social Media			
Total			

- 18 Julia surveyed 150 of her classmates at City Middle School to determine their favorite animals. Of the 150 students, 46% were male. Forty-two students said their favorite animal was a horse, and of those students were female. Of the 60 students who said dolphins were their favorite animal, 30% were male. Using this information, complete the two-way frequency table below.

	Horse	Dolphin	Penguin	Total
Male				
Female				
Total				

S.ID.B.5: Frequency Tables 2

Answer Section

1 ANS: 3

$$\frac{138}{192} \approx 72\%$$

REF: 012010ai

2 ANS: 2

$$\frac{38}{84} \approx 45.2\%$$

REF: 062317ai

3 ANS: 2

$$\frac{26}{42+26} = 0.382$$

REF: 061912ai

4 ANS: 1

$$\frac{58+41}{42+58+20+84+41+5} = \frac{99}{250} = 0.396$$

REF: 061809ai

5 ANS: 4

$$\frac{67}{42+67} \approx 0.615$$

REF: 012409ai

6 ANS: 3

$$\frac{68}{68+79} \approx 0.46$$

REF: 082414ai

7 ANS: 2

$$\frac{56}{56+74+103} \approx 0.24$$

REF: 081906ai

8 ANS: 4

$$\frac{30}{30+12+8} = 0.6$$

REF: 061615ai

9 ANS: 2

$$\frac{14}{16+20+14} = 28\%$$

REF: 011705ai

10 ANS: 2

$$\frac{44 + 30}{32 + 44 + 24 + 36 + 30 + 34} = 37\%$$

REF: 082212ai

11 ANS: 1

$$\frac{200}{300 + 200 + 80 + 25 + 120 + 105 + 100 + 70} = \frac{200}{1000} = 20\%$$

REF: 012510ai

12 ANS: 2

$$\frac{60 - 45}{60} = \frac{15}{60} = \frac{1}{4}$$

REF: 081814ai

13 ANS:

$$\frac{46}{39 + 46 + 37} \approx 38\%$$

REF: 012326ai

14 ANS:

$$\frac{33 + 12}{180} = 25\%$$

REF: 011526ai

15 ANS:

$$\frac{m}{351} = \frac{70}{70 + 35}$$

$$105m = 24570$$

$$m = 234$$

REF: 011630ai

16 ANS:

	Watch Sports	Don't Watch Sports	Total
Like Pop	26	28	54
Don't Like Pop	34	12	46
Total	60	40	100

REF: 061729ai

17 ANS:

	Play Video Games	Do Not Play Video Games	Total
Social Media	85	40	125
No Social Media	15	10	25
Total	100	50	150

REF: 062428ai

18 ANS:

	Horse	Dolphin	Penguin	Total
Male	28	18	23	69
Female	14	42	25	81
Total	42	60	48	150

REF: 082326ai