

Investigation 5 Additional Practice - TWMM

3. a. **Sample answer:** false, because 24% of seventh graders prefer pop music compared to 24.4% of eighth graders.
- b. **Sample answer:** true, because equal numbers of people who like country music are in sixth or seventh grade.
- c. **Sample answer:** true, because fewer eighth graders prefer pop music than rock music.
- d. **Sample answer:** false, because 20% of sixth graders prefer rock music while 17.4% of eighth graders prefer other types of music.

4. a.

	C	P	R	O
6th	25%	30%	20%	25%
7th	20%	24%	24%	32%
8th	33%	24%	26%	17%

b.

	C	P	R	O
6th	29%	34%	25%	29%
7th	29%	34%	38%	47%
8th	43%	31%	38%	24%

c.

	C	P	R	O	T
6th	7%	9%	6%	7%	29%
7th	7%	9%	9%	12%	37%
8th	11%	8%	9%	6%	34%
T	25%	26%	24%	25%	100%

5. a.

	Music	Games	Total
< 18	62	64	126
18–29	54	59	113
30–50	45	51	96
> 50	15	10	25
Total	176	184	360

b.

	Music	Games	Total
< 30	116	123	239
\geq 30	60	61	121
Total	176	184	360

- c. **Sample answer:** No, because 116 is less than twice 60.
- d. **Sample answer:** It is more likely that they will purchase games, because $123 > 116$.
- e. **Sample answer:** It is about equally likely that a person over 30 will purchase music or games, because both percents are close to 50%.
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