

1.

a.

Grade	Preferred pet				Totals
	Bird	Cat	Dog	Fish	
9	3	49	53	22	127
10	7	36	64	10	117
Totals	10	85	117	32	244

b. There were 22 9<sup>th</sup>-graders in the survey whose preferred pet is a fish.

c.

i.  $\frac{127}{244} \approx 0.520$

v.  $\frac{22}{127} \approx 0.173$

ii.  $\frac{85}{244} \approx 0.348$

vi.  $\frac{22}{32} = \frac{11}{16} \approx 0.688$

iii.  $\frac{64}{244} = \frac{16}{61} \approx 0.262$

vii.  $\frac{42}{244} = \frac{21}{122} \approx 0.172$

iv.  $\frac{170}{244} = \frac{85}{122} \approx 0.697$

viii.  $\frac{36}{244} = \frac{9}{61} \approx 0.148$

2.

a.  $\frac{20}{50} = \frac{2}{5} = 0.4$

g.  $\frac{38}{50} = \frac{19}{25} = 0.76$

b.  $\frac{16}{50} = \frac{8}{25} = 0.32$

h.  $\frac{16}{18} = \frac{8}{9} \approx 0.889$

c.  $\frac{34}{50} = \frac{17}{25} = 0.68$

i.  $\frac{2}{18} = \frac{1}{9} \approx 0.111$

d.  $\frac{6}{50} = \frac{3}{25} = 0.12$

j.  $\frac{34}{50} = \frac{17}{25} = 0.68$

e.  $\frac{2}{50} = \frac{1}{25} = 0.04$

k.  $\frac{48}{50} = \frac{24}{25} = 0.96$

f.  $\frac{28}{50} = \frac{14}{25} = 0.56$

l.  $\frac{8}{50} = \frac{4}{25} = 0.16$

★ 3. 41 teen non-fiction books