Name: _____ Date: _____

Fresh Math

Two Way Tables - Medium

Analyze two-way tables and calculate frequencies, relative frequencies, and conditional probabilities.

1. Students with a pet: 38 walk to school, 18 ride to school. Students without a pet: 36 walk to school, 12 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

2. 7th graders: 25 play a sport, 16 do not play a sport. 8th graders: 40 play a sport, 14 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

3. Students with a pet: 29 walk to school, 26 ride to school. Students without a pet: 42 walk to school, 19 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

4. Students with a pet: 24 walk to school, 30 ride to school. Students without a pet: 30 walk to school, 14 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

5. Students with a pet: 33 walk to school, 20 ride to school. Students without a pet: 29 walk to school, 11 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

6. 7th graders: 26 play a sport, 25 do not play a sport. 8th graders: 44 play a sport, 24 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

7. 7th graders: 24 play a sport, 16 do not play a sport. 8th graders: 27 play a sport, 19 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

8. 7th graders: 26 play a sport, 26 do not play a sport. 8th graders: 44 play a sport, 21 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

9. Students with a pet: 28 walk to school, 21 ride to school. Students without a pet: 29 walk to school, 13 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

10. 7th graders: 37 play a sport, 29 do not play a sport. 8th graders: 30 play a sport, 14 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

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Two Way Tables - Medium

Analyze two-way tables and calculate frequencies, relative frequencies, and conditional probabilities.

11. Students with a pet: 29 walk to school, 21 ride to school. Students without a pet: 44 walk to school, 14 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

12. Students with a pet: 28 walk to school, 23 ride to school. Students without a pet: 34 walk to school, 12 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

13. 7th graders: 36 play a sport, 16 do not play a sport. 8th graders: 39 play a sport, 25 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

14. Students with a pet: 20 walk to school, 19 ride to school. Students without a pet: 40 walk to school, 23 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

15. Students with a pet: 23 walk to school, 25 ride to school. Students without a pet: 39 walk to school, 24 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

16. Adults: 30 prefer movies, 21 prefer games. Teens: 43 prefer movies, 24 prefer games. What fraction of all those surveyed are adults who prefer movies?

17. 7th graders: 40 play a sport, 29 do not play a sport. 8th graders: 36 play a sport, 19 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

18. Adults: 32 prefer movies, 30 prefer games. Teens: 45 prefer movies, 17 prefer games. What fraction of all those surveyed are adults who prefer movies?

19. Students with a pet: 24 walk to school, 30 ride to school. Students without a pet: 41 walk to school, 23 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

20. 7th graders: 23 play a sport, 17 do not play a sport. 8th graders: 29 play a sport, 24 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

Two Way Tables - Medium - Answer Key

1. Students with a pet: 38 walk to school, 18 ride to school. Students without a pet: 36 walk to school, 12 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

   $\frac{19}{52} \approx 0.37$

2. 7th graders: 25 play a sport, 16 do not play a sport. 8th graders: 40 play a sport, 14 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

   $\frac{5}{19} \approx 0.26$

3. Students with a pet: 29 walk to school, 26 ride to school. Students without a pet: 42 walk to school, 19 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

   $\frac{1}{4} \approx 0.25$

4. Students with a pet: 24 walk to school, 30 ride to school. Students without a pet: 30 walk to school, 14 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

   $\frac{12}{49} \approx 0.24$

5. Students with a pet: 33 walk to school, 20 ride to school. Students without a pet: 29 walk to school, 11 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

   $\frac{11}{31} \approx 0.35$

6. 7th graders: 26 play a sport, 25 do not play a sport. 8th graders: 44 play a sport, 24 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

   $\frac{26}{119} \approx 0.22$

7. 7th graders: 24 play a sport, 16 do not play a sport. 8th graders: 27 play a sport, 19 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

   $\frac{12}{43} \approx 0.28$

8. 7th graders: 26 play a sport, 26 do not play a sport. 8th graders: 44 play a sport, 21 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

   $\frac{2}{9} \approx 0.22$

9. Students with a pet: 28 walk to school, 21 ride to school. Students without a pet: 29 walk to school, 13 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

   $\frac{4}{13} \approx 0.31$

10. 7th graders: 37 play a sport, 29 do not play a sport. 8th graders: 30 play a sport, 14 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

    $\frac{37}{110} \approx 0.34$

Two Way Tables - Medium - Answer Key

11. Students with a pet: 29 walk to school, 21 ride to school. Students without a pet: 44 walk to school, 14 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

$\frac{29}{108} \approx 0.27$

12. Students with a pet: 28 walk to school, 23 ride to school. Students without a pet: 34 walk to school, 12 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

$\frac{28}{97} \approx 0.29$

13. 7th graders: 36 play a sport, 16 do not play a sport. 8th graders: 39 play a sport, 25 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

$\frac{9}{29} \approx 0.31$

14. Students with a pet: 20 walk to school, 19 ride to school. Students without a pet: 40 walk to school, 23 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

$\frac{10}{51} \approx 0.20$

15. Students with a pet: 23 walk to school, 25 ride to school. Students without a pet: 39 walk to school, 24 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

$\frac{23}{111} \approx 0.21$

16. Adults: 30 prefer movies, 21 prefer games. Teens: 43 prefer movies, 24 prefer games. What fraction of all those surveyed are adults who prefer movies?

$\frac{15}{59} \approx 0.25$

17. 7th graders: 40 play a sport, 29 do not play a sport. 8th graders: 36 play a sport, 19 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

$\frac{10}{31} \approx 0.32$

18. Adults: 32 prefer movies, 30 prefer games. Teens: 45 prefer movies, 17 prefer games. What fraction of all those surveyed are adults who prefer movies?

$\frac{8}{31} \approx 0.26$

19. Students with a pet: 24 walk to school, 30 ride to school. Students without a pet: 41 walk to school, 23 ride to school. What fraction of all those surveyed are students with a pet who walk to school?

$\frac{12}{59} \approx 0.20$

20. 7th graders: 23 play a sport, 17 do not play a sport. 8th graders: 29 play a sport, 24 do not play a sport. What fraction of all those surveyed are 7th graders who play a sport?

$\frac{23}{93} \approx 0.25$