

## Decimal Problems

- Find the smallest number with two decimal digits that is more than 1.
  - Call the number you found in a. "y". Find a number between y and 1.
  - Using each of the digits 2, 3, and 7 once, make as many decimal numbers as you can that are greater than 1. All of your numbers should have at least one decimal digit. Then order your decimals from the smallest to the greatest.

- On the right are men's 200 m final results from the 2004 Olympics Games in Athens.

Name	Time (seconds)
1 Shawn Crawford (USA)	19.79
2 Bernard Williams (USA)	20.01
3 Justin Gatlin (USA)	20.03
4 Frank Fredericks (Nam)	20.14
5 Francis Obikwelu (Por)	20.14
6 Stephane Buckland (Mri)	20.24

- Which (consecutive) places have the biggest difference in time between them?  
How much is that difference?
- Which places have the least difference in time between them?

- Here you see the women's individual all-around gymnastics final results from the 2004 Olympics Games in Athens.

Name	Points
1 Alina Kabaeva (Rus)	108.400
2 Irina Tchachina (Rus)	107.325
3 Anna Bessonova (Ukr)	106.700
4 Aliya Yussupova (Kaz)	103.975
5 Natalia Godunko (Ukr)	103.800
6 Simona Peycheva (Bgr)	101.050

- Which places have the biggest difference in point count between them?  
How much is that difference?
- Which places have the least difference in point count between them?  
How much is that difference?

- Printing one page costs \$0.008.
  - Find the cost of printing an 85-page book.
  - What is the difference in costs for printing a 120-page book and a 100-page book?
- Jack bought 8 drill bits for \$1.22 each, 10 washers for \$0.11 each, and 2 hammers for \$4.59 each.
  - Estimate the total cost. Then calculate it exactly.
  - How much was his change from \$50?
- Your old fridge uses 984 kWh of energy per year. If you pay \$0.093 per kWh, what is the cost of electricity for running that fridge?
  - A new fridge will only use 407 kWh per year. How much money will you save yearly if you switch to that fridge?

