

4) Ordering decimals (2pts)

At a TAS swim meet, the following times were recorded for the 50m-backstroke race:

| Name | Time |
|--------|---------------|
| Elise | 33.76 seconds |
| Shreya | 32.85 seconds |
| Mitch | 33.08 seconds |
| Joshua | 32.09 seconds |

List the names from fastest (first place) to slowest (last place).

5) Rounding Decimals. (2pts)

Terry and his Dad are fixing the deck of their boat. They need to buy some wood to replace the broken deck, which is 4.836 meters long. Dad does not want to have any leftover wood so he decides to buy 4.8 meters of wood. Do you think he rounded off sensibly? Explain

6) Estimation (2pts)

Makita is planning a sleepover party. She goes to the store with \$20 to buy some snack food. Makita's snack food prices:

| Food item | Price | Makita buys |
|---------------------|-------------------|-------------|
| Eta chips | \$2.99 per packet | 2 packets |
| 2 liter bottle soda | \$1.68 per bottle | 3 bottles |
| Chocolate cookies | \$2.19 per packet | 3 packets |

Makita estimates the total and decides she has enough money to buy all the snacks. Show how **you** would estimate the total cost and say if Makita was right.

7) Substitution (3pts each)

Evaluate the expressions for $a = 0.03$; $b = 8$; $c = 0.75$

a. $ba + c$

b. $ab \div 0.0001$

8) Using the Distributive Property - Complete **one** of the following problems to show your understanding of the distributive property.

a. Use an Algebra Tile model to multiply (1pt)

$$5(2x + 3) =$$

b. Use distributive property to multiply (1pt) $6(53) =$

c. The fine for an overdue library book is \$0.20 for every day it's late and the fine for an overdue CD is 0.50 for every day its late. You return a CD and book 4 days late. What amount will you be fined? (1pt)

9) Mixed Word Problems with Decimals (3pts each)

a. Four ice skaters are in a competition in which the highest possible score is 10.0. Three of the skaters have completed their performances and their scores are 9.61, 9.65, and 9.60. What is the **lowest score** the fourth skater must get in order to win the competition?

b. Alia is mailing 3 letters for Christmas that weigh 37.56grams, 29.245 grams and 23.78 grams. What is the combined weight of the letters?

d. Pluto, normally the farthest planet from the sun, is also the slowest. Its average speed around the sun is 10,604 miles per hour. Earth by contrast, travels 6.28 times faster.

What is the average speed of Earth? Give your answer to the hundredths place.

e. What steps do you follow when you are dividing a whole number by a decimal number? Give an example

- f.** Kurt is playing a new game on his Nintendo Wii. He scored 3500 points after completing 6.5 levels. What was his average score per level? Round your answer to the nearest whole number.
- g.** You have the choice of two packets of baseball cards. The Topps Stadium packet contains 8 cards for \$4.50. The Upper Deck packet has 12 cards for \$6.25. Which packet has the lowest price per card?