- A. Why do you think Calvin chose to compare 8.6 kg of soil with 6 kg and 9 kg?
- B. How did Calvin know there would be less than 1 kg of compost in each bag?
- C. How could thinking of 2.5 as about 24 tenths help Calvin estimate?
- D. About how many tenths of a kilogram of compost should Calvin put in each bag? Explain how you know.

## Reflecting

- **E.** What could you multiply to check each estimate? Explain your thinking.
- F. Why did it make sense for Calvin to estimate the amount of soil in each pail using a whole number of kilograms, but the amount of compost in each bag using decimal tenths?

Checking

- 1.) Which quotients are between 3 and 4?
  - a) 12.6 ÷ 5

c) 10.92 ÷ 3

**b)** 15.38 ÷ 5

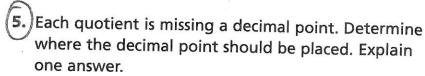
- d) 32.56 ÷ 8
- 2. Estimate each quotient. Explain your estimate for part a).
  - a)  $4.4 \div 6$

b) 65.66 ÷ 7

**Practising** 

- As of 2008, Robert Wadlow was the tallest man who has ever lived. He was 2.72 m tall. Usually the height of an adult's head is  $\frac{1}{7}$  of his body height. Estimate the height of Robert Wadlow's head.
- 4. Why is it convenient to think of 1.4 as close to 15 tenths to estimate  $1.4 \div 5$ ?





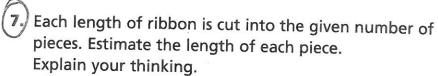
a) 
$$52.4 \div 4 = 131$$

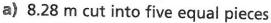
**b)** 
$$47.1 \div 3 = 157$$

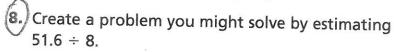
c) 
$$16.68 \div 6 = 278$$

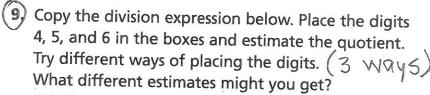
d) 
$$12.06 \div 9 = 134$$

6. Which quotients are between 5 and 6? Explain your thinking.

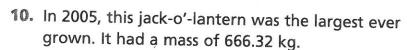








3. ÷



 a) If eight people lifted this jack-o'-lantern equally, estimate the mass that each person would have to lift.

b) How could you check your estimate by multiplying?

11. How is estimating 17.7  $\div$  7 the same as estimating 1.7  $\div$  7? How is it different?



