Mystery Amounts

Problem One

●, ▲, and ■ represent digits from 0–9.

Which digits are they if this multiplication is correct?

● ▲ x ▲ ● = ▲ ■ ▲

(Note: ● ▲ is a two-digit number.)

Problem Two
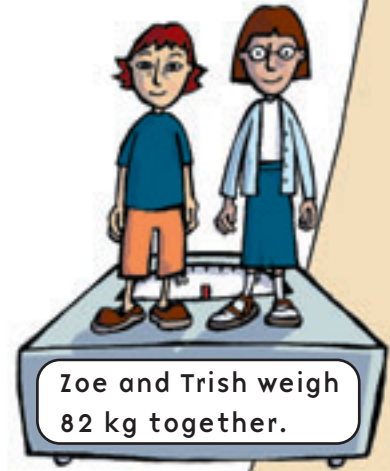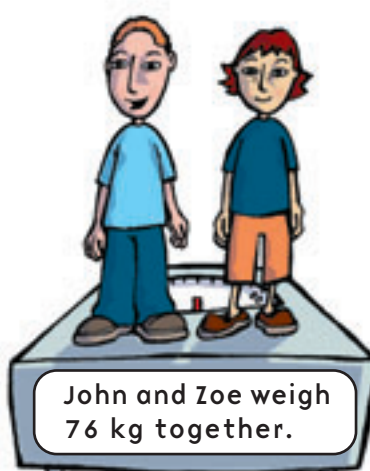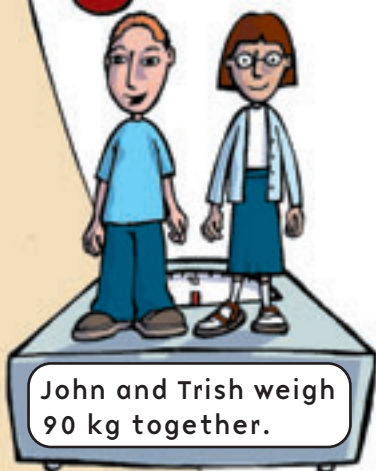
Five mats can be arranged in a rectangle like this:

How else could the five mats be arranged in a rectangle?

Problem Three

If Tyron had $70 more, he could buy 10 CDs. If he had $50 less, he could buy only two.

a.   How much does a CD cost?

b.   How much money does Tyron have?

Problem Four

John and Trish weigh 90 kg together.

John and Zoe weigh 76 kg together.

Zoe and Trish weigh 82 kg together.

How much does each person weigh?