



# Problems with Missing Information

Let's find out what information is needed to solve problems about measurements at the fair.

## Warm-up

### Estimation Exploration: Giant Pumpkin

Each regular pumpkin in this field weighs between 4 and 10 kilograms.

How many kilograms do you think the giant pumpkin weighs?



Record an estimate that is:

too low	about right	too high

## Activity 1

### Info Gap: Pumpkin Weigh-Off

Your teacher will give you either a Problem Card or a Data Card. Do not show or read your card to your partner.

#### Problem Card Student

Silently read the Problem Card.

#### Data Card Student

Silently read the Data Card.

**“Can you tell me \_\_\_?”**  
(Ask for a specific piece of information.)

**“I need to know \_\_\_ because. . .”**

**“I have enough information to solve this problem.”**

Display the Problem Card.

**“Why do you need to know \_\_\_?”**  
(Repeat the information requested)

Listen to your partner’s reason.

Answer with information from the Data Card.

**Solve the problem independently.**  
Continue to ask questions if more information is needed.

**Share the Data Card. Then compare strategies and solutions.**

Pause here so your teacher can review your work.

Ask your teacher for a new set of cards and repeat the activity, trading roles with your partner.

## Activity 2

### Info Gap: Pig Weigh-Off

Your teacher will give you a new Problem Card or Data Card. Do not show or read your card to your partner.

Use the same *Information Gap* routine to solve the problem. Then pause so your teacher can review your work.

Ask your teacher for a new set of cards and repeat the activity, trading roles with your partner.