

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Frankie's Fairground** page 1 of 2

Frankie goes to the county fair every year. This year, she finds a math problem everywhere she goes. Help Frankie solve the problems. First make an estimate. Then write an equation with a letter standing for the unknown quantity. Finally solve the problem. Show your work using numbers, labeled sketches, or words.

- 1** Frankie buys 24 tickets to use at the fair. Each ticket costs 25 cents. How much money does Frankie spend on tickets?

Estimate: \_\_\_\_\_ Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

- 2** Frankie goes on the Ferris wheel first. The Ferris wheel stands on a rectangular platform that has an area of  $324 \text{ yd}^2$  (square yards). One dimension is 9 yards. What is the other dimension?

Estimate: \_\_\_\_\_ Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

*(continued on next page)*

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- 3** Next, Frankie goes on the Thrill Ride roller coaster. The roller coaster takes up a large rectangular area of the fairground. It is 99 yards on one side and 88 yards on the other side. How much space does the roller coaster take up in square yards?

Estimate: \_\_\_\_\_ Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

- 4** Write and solve an equation for each of the problems below. Use the table to help.

Measurement Equivalents			
1 kilometer	1,000 meters	10,000 decimeters	100,000 centimeters
	1 meter	10 decimeters	100 centimeters
		1 decimeter	10 centimeters

- a** How many centimeters are in 45 meters?
- b** How many meters are in 45 kilometers?
- c** How many meters are in 800 centimeters?
- d** **CHALLENGE** How many decimeters are in 40 kilometers?