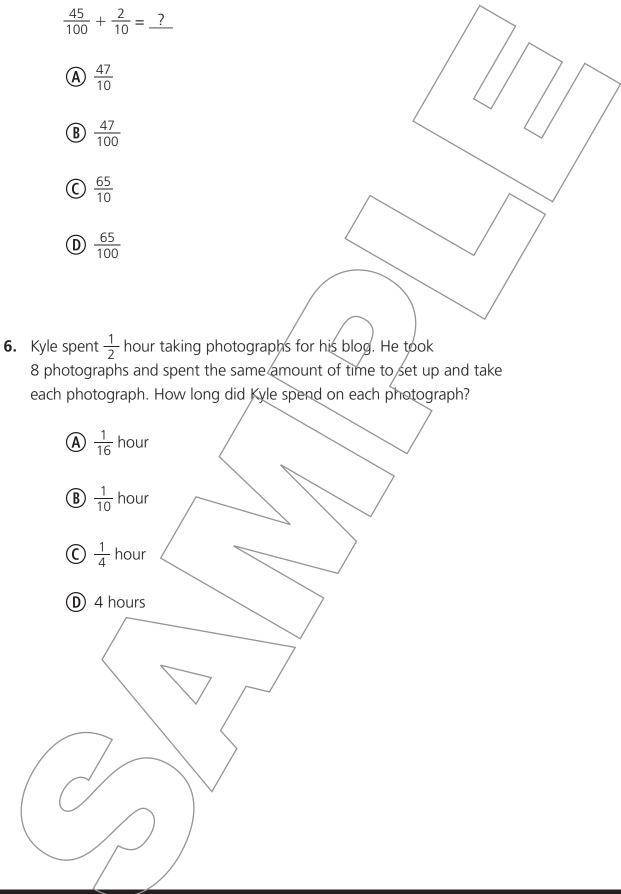# Session 1

This session contains 30 multiple-choice questions. Fill in the circle for your answer to each question.

You may use a ruler and a protractor during this session. You may **not** use a calculator during this session.

Now turn the page and begin.

5. Find the sum.

$$\frac{45}{100} + \frac{2}{10} = \underline{\ ?\ }$$

Ⓐ $\frac{47}{10}$

Ⓑ $\frac{47}{100}$

Ⓒ $\frac{65}{10}$

Ⓓ $\frac{65}{100}$

6. Kyle spent $\frac{1}{2}$ hour taking photographs for his blog. He took 8 photographs and spent the same amount of time to set up and take each photograph. How long did Kyle spend on each photograph?

Ⓐ $\frac{1}{16}$ hour

Ⓑ $\frac{1}{10}$ hour

Ⓒ $\frac{1}{4}$ hour

Ⓓ 4 hours

Session 2

This session contains five multiple-choice questions and nine constructed-response items. Fill in the circle for your answer to each multiple-choice question. Write your answer for each constructed-response item.

You may use a ruler and a protractor during this session. You may **not** use a calculator during this session.

Now turn the page and begin.
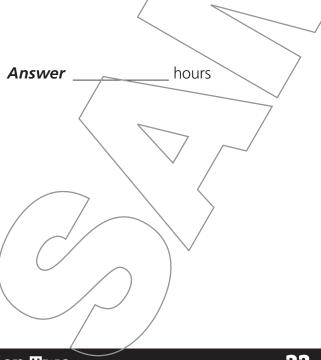
Read each problem. Write your answer.

36. Lily works in a chocolate shop. She is filling the two special orders shown in the table.

CANDY ORDERS

Type of Chocolate	Order #1 (kilograms)	Order #2 (grams)
Raspberry Cream	0.65	785
Peanut Butter	1.1	X
Mint	0.35	1,080

The two orders have the same total mass. What is the value of X in the table?

Answer _____ grams

37. A construction company is building a new deck for a customer. They worked on the deck for $2\frac{3}{4}$ hours on Thursday and $1\frac{1}{3}$ hours on Friday. On Saturday, they worked for $8\frac{5}{6}$ hours. How much longer did they work on Saturday than on Thursday and Friday combined?

Answer _____ hours

42. A gardener uses rain barrels to collect water to use in her community garden. She has two rain barrels. One rain barrel contains $4\frac{2}{5}$ gallons of water, and the other contains $5\frac{3}{10}$ gallons of water. If the gardener uses $2\frac{1}{2}$ gallons to water some plants, how much water remains in the rain barrels?

Answer _____ gallons

How can you use benchmark fractions to decide if your answer is reasonable?

Explain your answer.

_____

_____

_____

_____

44. An elementary school plans to paint a large mural on a wall at the school. The mural will be $12\frac{3}{7}$ feet long and $9\frac{1}{3}$ feet high. What is the area of the wall, in square feet, that the mural will cover?

Show your work.

Answer _____ square feet

The school buys 8 gallons of blue paint. The janitor pours the paint into containers that hold $\frac{1}{8}$ gallon each. How many containers can the janitor fill with blue paint?

Show your work.

Answer _____ containers