

SESSION 1

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

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

SAMPLE

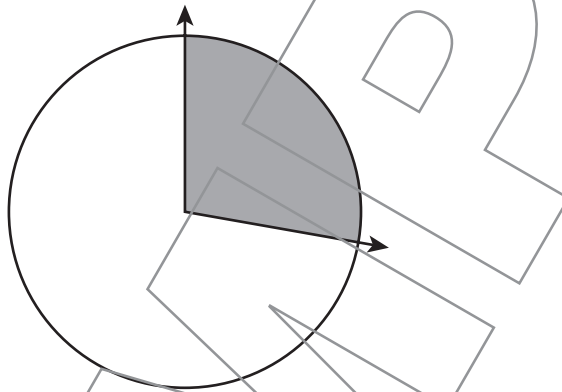
- 3 Look at this expression.

$$20 \times 11$$

Which statement is true about the product of this expression?

- (A) It is equal to 2 tens, which is 20 times as many as 11.
- (B) It is equal to 2 hundreds and 2 tens, which is 2 times as many as 11.
- (C) It is equal to 2 hundreds and 2 tens, which is 20 times as many as 11.
- (D) It is equal to 2 tens and 2 ones, which is 2 times as many as 11.

- 4 The rays of an angle meet at the center of a circle. When the rays meet the circle, they are 1° apart. The shaded part of the circle below is 100 times the size of the one-degree angle.



What is the measure of the shaded part?

- (A) 90°
- (B) 100°
- (C) 101°
- (D) 110°

SESSION 2

This session contains eight multiple-choice questions, six short constructed-response items, and one extended constructed-response item. Fill in the circle for your answer to each multiple-choice question. Write your answers for the constructed-response items in the spaces provided.

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

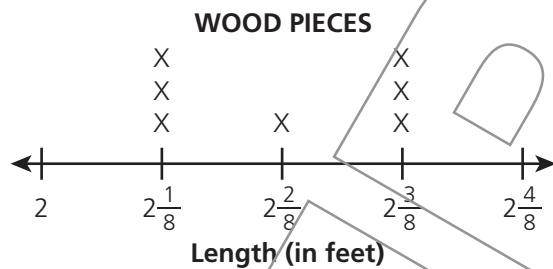
SAMPLE

- 37 Multiply:

$$\begin{array}{r} 58 \\ \times 23 \\ \hline \end{array}$$

- (A) 290
- (B) 1,191
- (C) 1,214
- (D) 1,334

- 38 The students in Mr. Riley's class cut different lengths of wood boards for a school project. The line plot shows the different lengths of each piece of wood, in feet.



One student put the three smallest pieces next to one another with no overlap. What is the total length, in feet, of the boards he put together?

- (A) $6\frac{3}{8}$ feet
- (B) $6\frac{9}{8}$ feet
- (C) $6\frac{6}{8}$ feet
- (D) $6\frac{3}{24}$ feet

Directions: Read each part of the problem. Then write the answer to each part.

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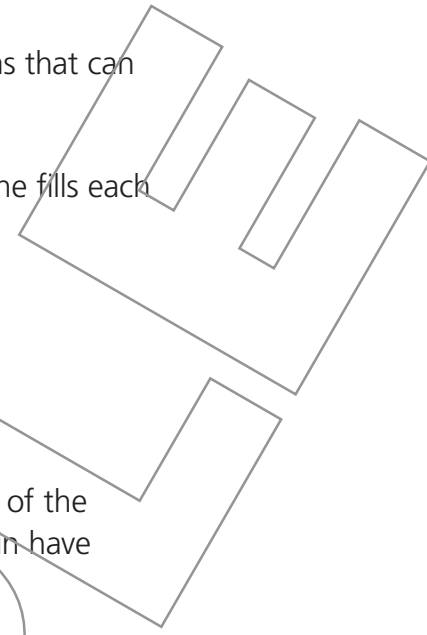
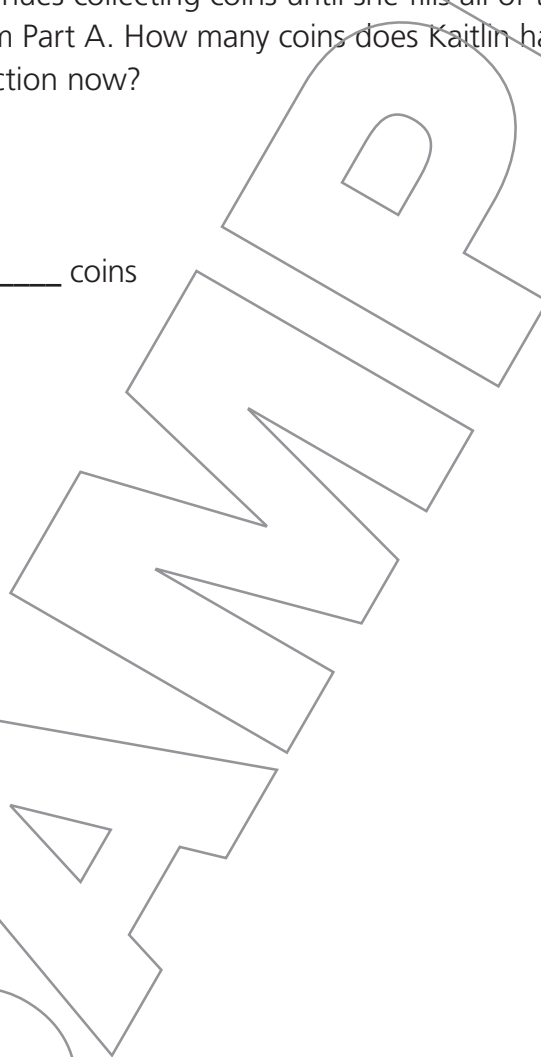
Kaitlin has 46 coins in her coin collection. She has albums that can hold 5 coins per page. The albums have 6 pages each.

Part A: How many of these albums will Kaitlin need if she fills each page with her coins?

Answer: _____ albums

Part B: Kaitlin continues collecting coins until she fills all of the albums from Part A. How many coins does Kaitlin have in her collection now?

Answer: _____ coins



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Hans used the fraction model below to show $\frac{2}{5}$.



Hans multiplied $\frac{2}{5}$ and another fraction. The model below represents the multiplication.



Part A: Hans wrote $\frac{2}{5} \times \frac{m}{m}$ to represent the new model. What is the value of m ?

Answer: _____

Part B: What is the product of the two fractions? Explain how you know whether or not the fraction is equivalent to $\frac{2}{5}$.
