

SESSION 1

This session contains 25 multiple-choice questions. Fill in the circle for your answer to each multiple-choice question.

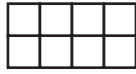
You may use a ruler during this session. You may **not** use a calculator during this session.

SAMPLE

- 5 A shirt company shipped 8 small boxes and 1 medium box of shirts. Each small box had 5 shirts and each medium box had 9 shirts. Which number sentence shows the total number, s , of shirts in the shipment?

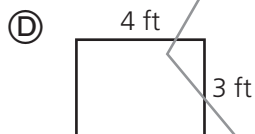
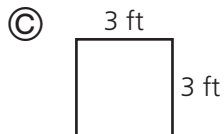
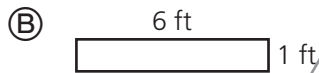
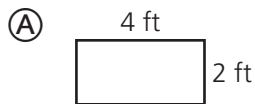
- (A) $40 \div 9 = s$
- (B) $40 \times 9 = s$
- (C) $40 - 9 = s$
- (D) $40 + 9 = s$

- 6 Helen is putting tile on her counter. Part of the counter is shown below.



 = 1 square foot

Which rectangle has an area equal to the area of this part of the counter?



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

SAMPLE

- 30 Kya wants to find the total area of these figures.



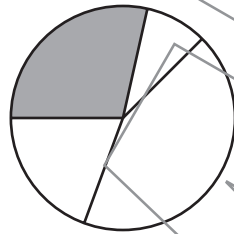
She joined the two figures together. She wrote this number sentence to represent the area of the new figure.

$$(2 \times 2) + (2 \times 3) = \square \times (2 + 3)$$

What number is missing from her number sentence?

- (A) 2
- (B) 3
- (C) 4
- (D) 5

- 31 Joe drew the figure below.



Joe says the shaded area shows $\frac{1}{4}$ of the area of the whole circle. Is Joe correct?

- (A) No, because the parts are not big enough.
- (B) No, because the parts are not the same size.
- (C) Yes, because there are 4 parts and 1 is shaded.
- (D) Yes, because there are 4 parts and 2 are shaded.

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Jake decorated 28 cookies. He put the same number of cookies in each of 4 boxes. He wrote the expression below to find the number of cookies to put in each box.

$$28 \div 4$$

Part A: Is Jake's expression correct? Explain your answer.

Part B: Jake decorates 12 more cookies. He will divide them among the same 4 boxes. How many cookies will be in each box now?

Show your work.

Answer: _____ cookies

SAMPLE

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Luis made a rectangle out of squares. Each square is 1 square inch. He used 30 squares to make his rectangle.

Part A: What is the area of his rectangle, in square inches?

Answer: _____ square inches

Part B: What could be the length and width of Luis's rectangle?

Length: _____ inches

Width: _____ inches

Part C: Luis rearranges the squares to make a new rectangle. He says the perimeter of this rectangle is different than the first one. He says the two rectangles have the same area. Is Luis correct? Explain your answer.

