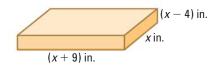
MIXED REVIEW FOR TEKS



Lessons 9.5–9.8

MULTIPLE CHOICE

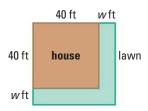
1. **CLAY DIMENSIONS** A block of clay has the dimensions shown. The clay has a volume of 180 cubic inches. Find the length, width, and height of the block. TEKS A.4.A



- **(A)** 10 in., 6 in., 3 in.
- **B** 12 in., 3 in., 5 in.
- **©** 15 in., 6 in., 2 in.
- **(D)** 16 in., 5 in., 2 in.
- **2. BASEBALL** You hit a baseball straight up into the air. The baseball is hit with an initial vertical velocity of 88 feet per second when it is 3 feet off the ground. After how many seconds does the ball first reach a height of 99 feet? TEKS A.10.A
 - **(F)** 1.5 sec **(G)** 3 sec
- **(H)** 4 sec
- **J**) 7 sec
- **3. TILES** Each rectangular tile in a box of floor tiles has a width of *x* inches and is 2 inches longer than it is wide. Four of the tiles cover an area of 77 square inches. What are the dimensions of a tile? TEKS A.10.A

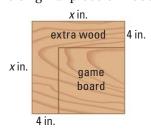
 - **(A)** 2 in. by 4 in. **(B)** 3.5 in. by 5.5 in.

 - **©** 4 in. by 6 in. **D** 5.5 in. by 7.5 in.
- **4. GARDENING** A square house has a lawn on two sides. Together, the house and lawn form a square with the dimensions shown. The lawn is being reseeded. The gardener determined that the lawn has an area of 900 square feet. Find the width of the lawn. **TEKS A.10.A**



- **(F)** 10 ft
- **(G)** 15 ft
- **(H)** 25 ft
- (**J**) 90 ft

- **5. TENNIS** A tennis player hits a ball with an initial vertical velocity of 63 feet per second from an initial height of 4 feet. After how many seconds does the tennis ball hit the ground? TEKS A.10.A
 - **(A)** 1 sec
- **B**) 4 sec
- **(C)** 6 sec
- **(D)** 7 sec
- **6. GAME BOARD** You are making a square game board. You cut the game board from a square piece of wood, as shown. The area of the game board is 100 square inches. What is the area of the original piece of wood? TEKS A.10.A



- (\mathbf{F}) 116 in.²
- **(G)** 164 in.^2
- **(H)** 196 in.^2
- \bigcirc 224 in.²
- **7. BOX** A box is a rectangular prism having the dimensions shown.



The box has a volume of 600 cubic inches. What is the area of the top of the box? TEKS A.4.A

- **(A)** 20 in.^2
- **(B)** 120 in.^2
- (\mathbf{C}) 150 in.²
- (\mathbf{D}) 240 in.²

GRIDDED ANSWER O 1 • 3 4 5 6 7 8 9

- **8. DIMENSIONS** The floor of a rectangular room has an area of 204 square feet. The room is 5 feet longer than it is wide. What is the length (in feet) of the room? TEKS A.10.A
- **9. PHYSICS** During an experiment in physics class, you drop a ball from a height of 100 feet. After how many seconds does the ball hit the ground? TEKS A.10.A