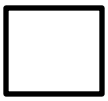
Name _____ **Date_____**

Grade 3: Module 10 – Measurement - Area

Part 1

1. The square below has a side measure of 1 unit. Which of the following statements is true?



A. The square unit can be used to measure the length of a figure.

B. The square unit can be used to measure the area of a figure.

C. The square unit can be used to measure the volume of a figure.

D. The square unit can be used to measure the width of a figure.

2. If a rectangle is covered with squares that have edge lengths that are 1 centimeter in length, what will be the unit of measure of the area?

A. square centimeters

B. square meters

C. centimeters

D. meters

3. If a rectangle is covered with squares that have edge lengths that are 1 inch in length, what will be the unit of measure of the area?

A. inches

B. feet

C. square inches

D. square feet

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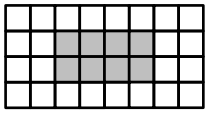
4. What is the area, in square units, of the shaded part of the figure below?



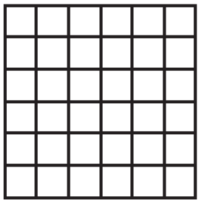
A. 32 square units

B. 24 square units

C. 12 square units

D. 8 square units

5. A drawing of a playground is shown below. If each square unit represents 1 square meter, what is the area of the playground?



A. 12 square meters

B. 30 square meters

C. 36 square meters

D. 42 square meters

6. What is the area, in square units, of the figure below?

A. 30 square units

B. 27 square units

C. 24 square units

D. 13 square units

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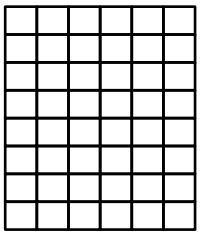
7. The rectangular floor of a bathroom is 6 feet wide and 8 feet long. What is the total area, in square feet, of the floor of the bathroom?

A. 2 square feet

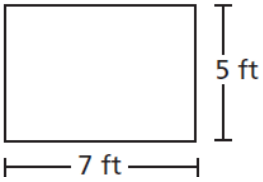
B. 14 square feet

C. 48 square feet

D. 64 square feet



8. What is the area of the garden shown below?



A. 12 square feet

B. 24 square feet

C. 28 square feet

D. 35 square feet

9. The patio at Jason's house is in the shape of a square. If each side measures 8 feet in length, what is the area of the patio?

A. 16 square feet

B. 26 square feet

C. 64 square feet

D. 88 square feet

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10. A rectangle has a length of 7 inches and width of 4 inches. What is the area of the rectangle?

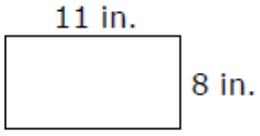
A. 11 square inches

B. 28 square inches

C. 47 square inches

D. 74 square inches

11. What is the area of the rectangle shown below?



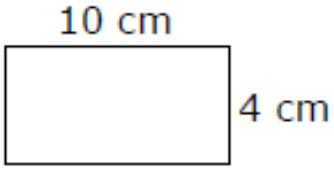
A. 19 square inches

B. 38 square inches

C. 88 square inches

D. 176 square inches

12. What is the area of the rectangle shown below?



A. 6 square cm

B. 14 square cm

C. 28 square cm

D. 40 square cm

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13. What is the area of a rectangle with a length of 9 mm and a width of 6 mm?

A. 54 square mm

B. 30 square mm

C. 15 square mm

D. 3 square mm

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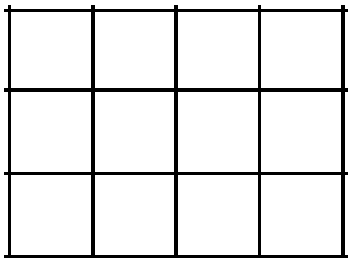
Part 2

14. What is the area of the rectangle shown below?

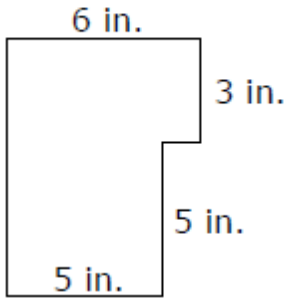


Show your work.

Answer _____units^2

Name _____ **Date**_____

15. Find the area of the figure below.



Show your work.

Answer_____square inches

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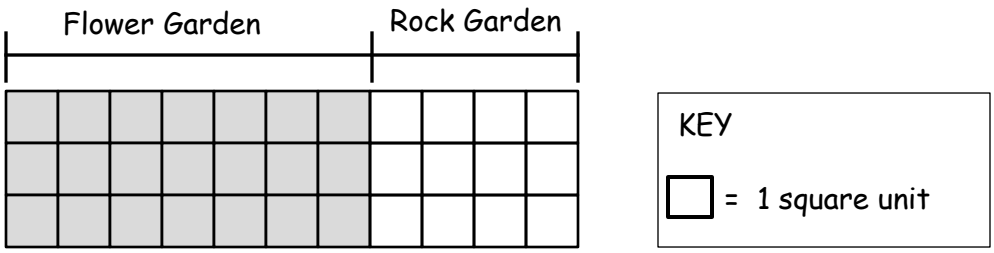
Part 3

16. The grid below shows a flower garden and a rock garden at a local park.



What is the area of the flower garden?

Answer _____ square units

Fill in the blanks to show how the number sentence below can be used to find the total area of the flower garden and the rock garden.

Answer (3 × _____) + (3 × _____) = 3 × (_____ + _____)

What is the total area of both the flower garden and the rock garden?

Answer _____ square units

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Answer Key for Grade 3 Module 10 Assessment - Form A			
Question Number	**Standard**	**Answer**	**Reasons for Answers**
1	3.MD.C.5a	B	A. Thought that the square was used to measure length C. Thought that the square was used to measure volume D. Thought that the square was used to measure width
2	3.MD.C.5b	A	B. Thought centimeters squared was meters C. Chose centimeters because the length of each edge is centimeters D. Chose meters because the it is a larger unit of measure than centimeters
3	3.MD.C.5b	C	A. Thought that the unit of measure was the same for length and area B. Thought that the measure was the larger unit of length which is feet D. Thought that the correct unit was the larger unit of measure which is square feet
4	3.MD.C.5b	D	A. The area of the entire figure B. The area of the figure that is not shaded C. Added the length and width of the figure (4 + 8 = 12)
5	3.MD.C.6	C	A. Added the values of the length and width (6 + 6= 12) B. Incorrectly identified the columns in the figure as 5 (6 × 5 = 30) D. Incorrectly identified the columns in the figure as 7 (6 × 7 = 42)
6	3.MD.C.6	A	B. Incorrectly identified the length of the figure as 9 units (3 × 9 = 27) C. Incorrectly identified the length of the figure as 8 units (3 × 8 = 24) D. Added the length and the width of the figure (3 + 10 = 13)
7	3.MD.C.6	C	A. Subtracted the given values in the problem (8 – 6 = 2) B. Added the given values in the problem (8 + 6 = 14) D. Found the area using a side length of 8 for both length and width
8	3.MD.C.7b	D	A. Added the length and width (5 + 7 = 12) B. Found the perimeter of the figure C. Multiplied incorrectly
9	3.MD.C.7b	C	A. Added the given values (8 + 8 = 16) B. Multiplied incorrectly D. Used the 8 digits to make the value of 88
10	3.MD.C.7b	B	A. Added the values of the length and width (7 + 4 = 11) C. Used the digits given in the problem (47) D. Used the digits given in the problem (74)
11	3.MD.C.7b	C	A. Added the given values (11 + 8 = 19) B. Found the perimeter D. Doubled the area of the figure
12	3.MD.C.7b	D	A. Subtracted the values given in the problem (10 – 4 = 6) B. Added the values given in the problem (10 + 4 = 14) C. Found the perimeter of the figure

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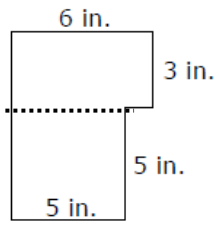
13	3.MD.C.7b	A	B. Found the perimeter of the figure C. Added the given values in the problem (9 + 6 = 15) D. Subtracted the given values in the problem (9 – 6 = 3)
14	3.MD.C.6	See below	

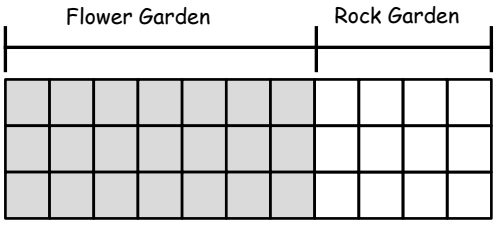
Possible strategy: Multiply the length of the rectangle by the width of the rectangle.
Possible strategy: Count the unit squares that make up the rectangle.
There are a total of 12 unit squares so the area is 12 square units.

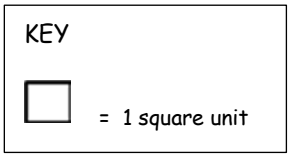
15	3.MD.C.7a	See below



Divide the shape into two shapes. Find the area of each shape and add the two areas together.
$A = lw$
$A = 5 \times 5 = 25$; $A = 6 \times 3 = 18$
$A = 25 + 18 = 43$
$A = 43$ square inches

16	3.MD.C.7d	See below





Area of the flower garden is 21 square units
$(3 \times 7) + (3 \times 4) = 3 \times (7 + 4)$
Total area of both the flower garden and rock garden is 33 square units.

