**Solve multi-digit times a single digit multiplication problems by using an area model, Practice Set A**

Name:

Date:

1. Jack needs to find the area of his flower garden to order enough mulch. It is 8 ft. wide and 24 ft. long. What is the area of Jack’s flower garden? Use an area model to multiply the dimensions of Jack’s flower garden.

8 x 24 = \_\_\_\_\_\_\_\_

a. Write the number 24 in expanded form. \_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Fill in the blanks in the area model.



c. Multiply to find the area of each section of the area model.

e. What is the area of Jack’s flower garden? \_\_\_\_\_\_\_\_\_

2. The runway for a long jump track is about 4 feet wide and 146 feet long. What is the area of the long jump track? Use the area model below to find the area of the long jump track.

4 x 146 = \_\_\_\_\_

a. Write 146 in expanded form. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. Fill in the blanks in the area model.



c. Multiply to find the area of each section of the area model.

d. What is the area of the long jump track? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Answer Key**

1. Jack needs to find the area of his flower garden to order enough mulch. It is 8 ft. wide and 24 ft. long. What is the area of Jack’s flower garden? Use an area model to multiply the dimensions of Jack’s flower garden.

8 x 24 = \_\_\_\_\_\_\_\_

a. Write the number 24 in expanded form. \_\_\_20 + 4\_\_\_\_\_\_\_\_\_

b. Fill in the blanks in the area model.



c. Multiply to find the area of each section of the area model.

e. What is the area of Jack’s flower garden? \_\_\_198 ft2\_\_\_\_\_\_

2. The runway for a long jump track is about 4 feet wide and 146 feet long. What is the area of the long jump track? Use the area model below to find the area of the long jump track.

4 x 146 = \_\_\_\_\_

a. Write 146 in expanded form. \_\_\_\_\_100 + 40 + 6\_\_\_\_\_\_\_\_\_\_\_\_

b. Fill in the blanks in the area model.



c. Multiply to find the area of each section of the area model.

d. What is the area of the long jump track? \_\_\_\_\_584 ft2\_\_\_\_\_\_