



**NEW ENGLAND
COMMON ASSESSMENT PROGRAM**

**Student Work Samples
2009**

Grade 4



Mathematics



11 Marco solved this multiplication problem.

$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

Write a number sentence using addition that Marco could use to check his work.

$$10 + 10 + 10 = 30$$



11 Marco solved this multiplication problem.

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Write a number sentence using addition that Marco could use to check his work.

add 3 10 times.

$$\begin{array}{cccccccccccc} 3 & + & 3 & + & 3 & + & 3 & + & 3 & + & 3 & + & 3 & + & 3 & + & 3 & + & 3 & + & 3 & = & 30 \\ 3 & & 6 & & 9 & & 12 & & 15 & & 18 & & 21 & & 24 & & 27 & & 30 & & & & \end{array}$$



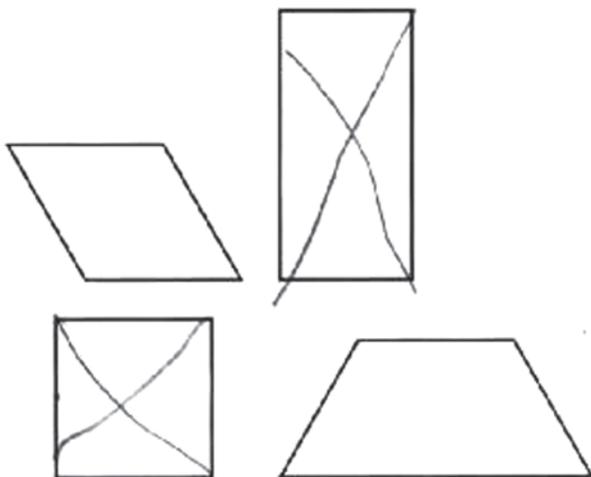
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$$\begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array}$$

Write a number sentence using addition that Marco could use to check his work.

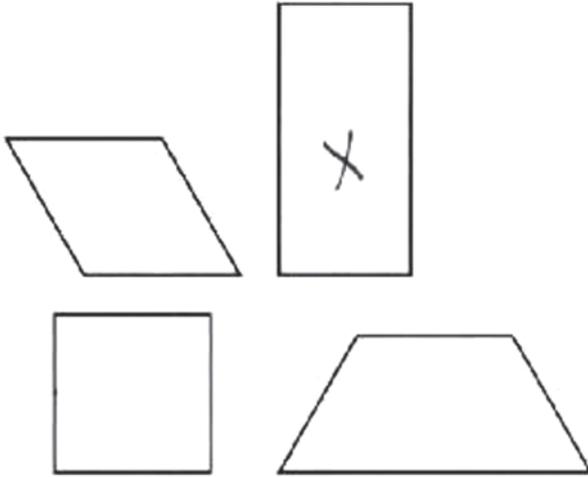
$$30 \div 3 = 10$$

12 Look at these shapes.



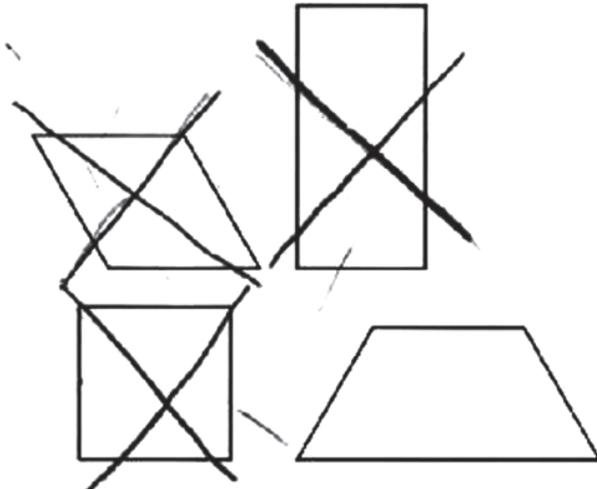
Put an X on each shape that is a rectangle.

12 Look at these shapes.



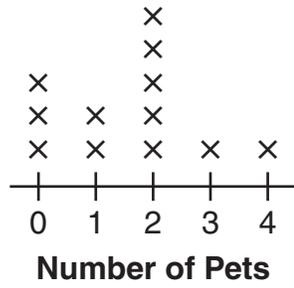
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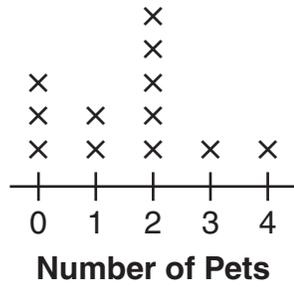
- 13 Eric made this line plot to show how many pets his friends have.



Key
x represents 1 friend

What is the most common number of pets Eric's friends have? 2

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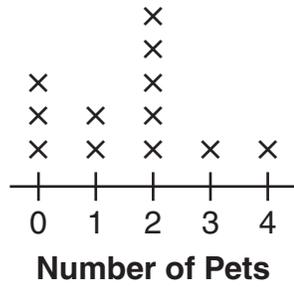
Key
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5 Pets
Because has
a lot of pets in

What is the most common number of pets Eric's friends have? common

5 Pets

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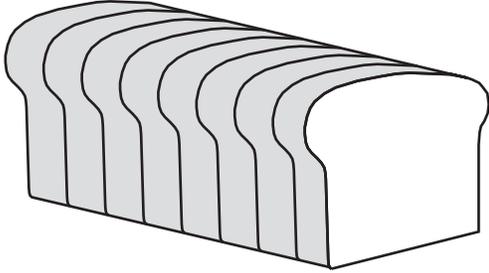


Key
x represents 1 friend

What is the most common number of pets Eric's friends have?

3 and 4

14 Look at this loaf of bread.



Morgan ate 2 slices of bread. Trent ate 1 slice of bread.

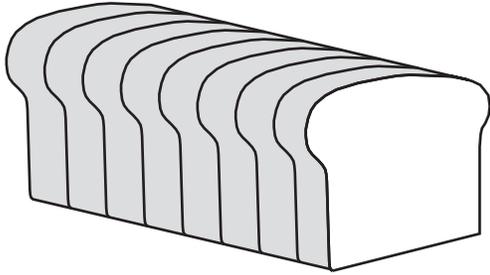
a. What fraction of the loaf of bread did Morgan and Trent eat?

$$\frac{3}{10}$$

b. What fraction of the loaf of bread is left over?

$$\frac{7}{10}$$

- 14 Look at this loaf of bread.



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- a. What fraction of the loaf of bread did Morgan and Trent eat?

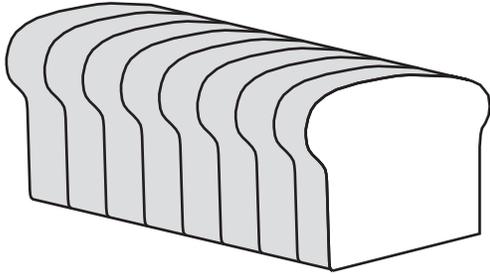
$$\frac{\text{Morgan}}{2}$$
$$\frac{2}{8}$$

$$\frac{\text{Trent}}{1}$$
$$\frac{1}{8}$$

- b. What fraction of the loaf of bread is left over?

$$\frac{5}{8}$$

- 14 Look at this loaf of bread.



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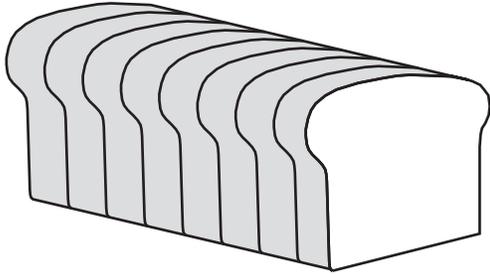
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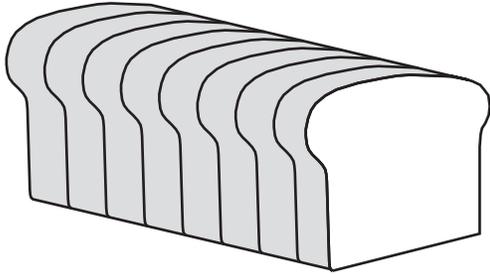
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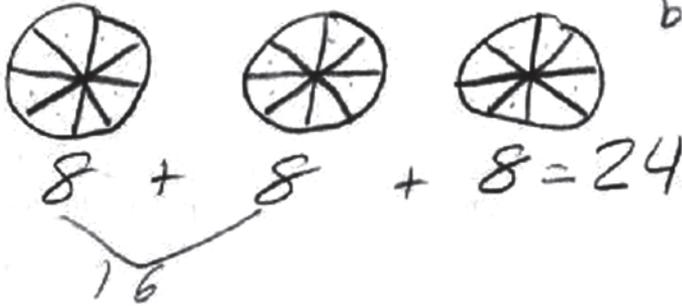
- b. What fraction of the loaf of bread is left over?

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- 15 There are 3 pies at a bakery. Each pie is cut into 8 slices.

How many slices of pie are there? Show your work or use numbers, words, or pictures to explain how you know.



There are 24
slices of Pie at the
bakery.



- 15 There are 3 pies at a bakery. Each pie is cut into 8 slices.

How many slices of pie are there? Show your work or use numbers, words, or pictures to explain how you know.

$$\begin{array}{r} 8 \\ + 8 \\ \hline 8 \end{array}$$

$$8 \times 3 = 24$$



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24

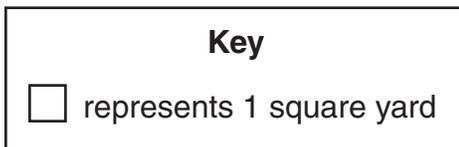
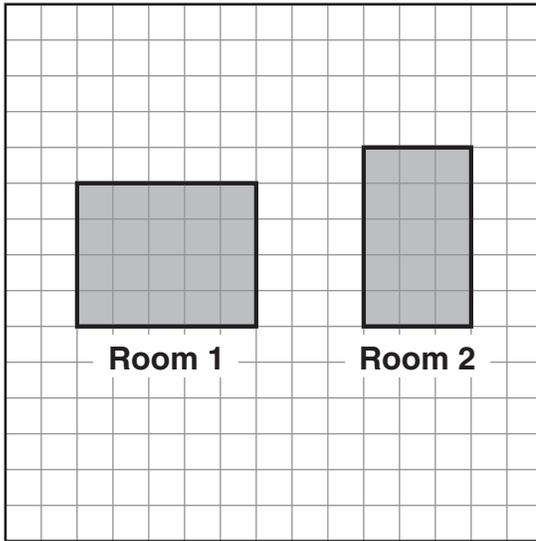


- 15 There are 3 pies at a bakery. Each pie is cut into 8 slices.

How many slices of pie are there? Show your work or use numbers, words, or pictures to explain how you know.

$$\begin{array}{r} 3 \text{ Pies} \\ + 8 \text{ slices} \\ \hline 11 \text{ slices altogether} \end{array}$$

- 16 Room 1 and Room 2 are each shaped like a rectangle. A model of each room is shown below.

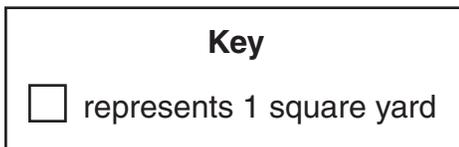
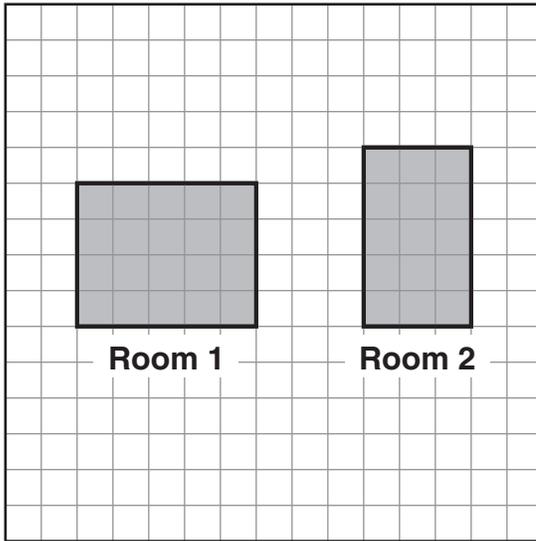


How many square yards larger is the area of Room 1 than the area of Room 2?
Explain how you know.

$$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \text{ yards} \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \text{ yards} \end{array}$$

My answer is in room 1 it has 5 more square yards than in room 2.

- 16 Room 1 and Room 2 are each shaped like a rectangle. A model of each room is shown below.

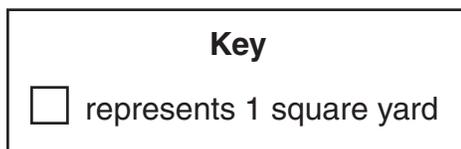
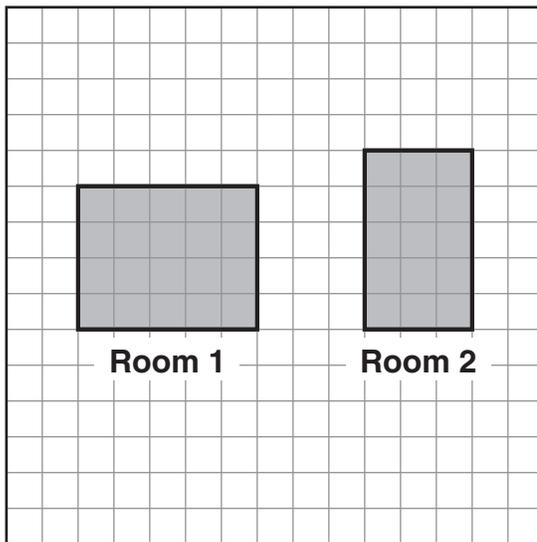


How many square yards larger is the area of Room 1 than the area of Room 2?
Explain how you know.

5 squares larger.

I know this because if you count the squares in room 1 and room 2 then subtract the number of squares in room 2 from room 1 you get 5

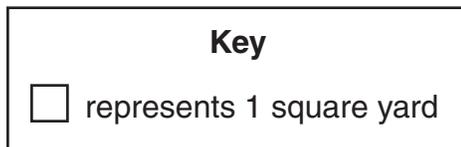
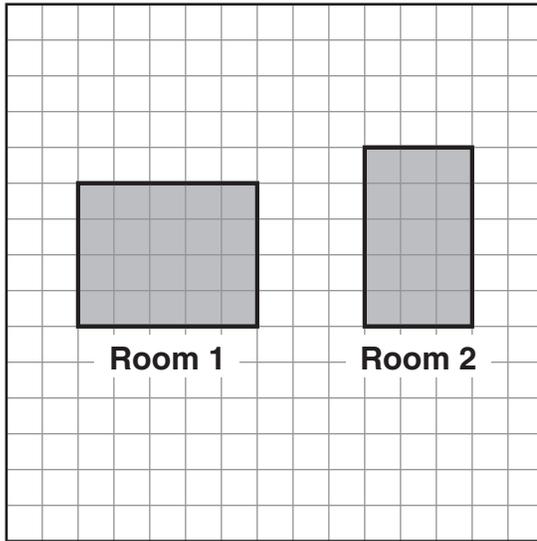
- 16 Room 1 and Room 2 are each shaped like a rectangle. A model of each room is shown below.



How many square yards larger is the area of Room 1 than the area of Room 2?
Explain how you know.

5 square yards
I counted the □'s

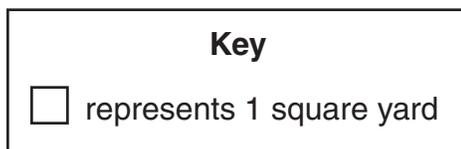
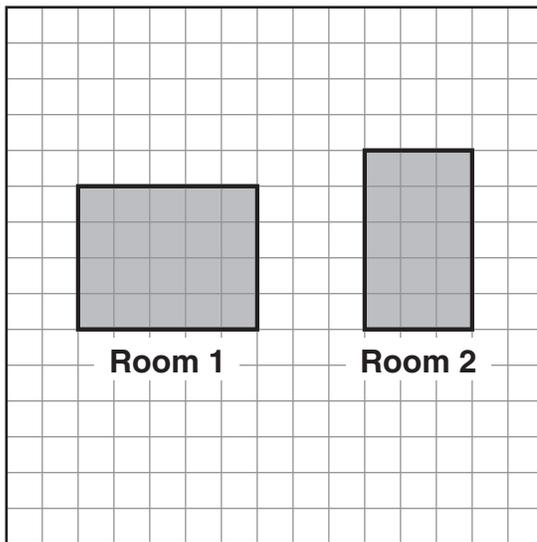
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How many square yards larger is the area of Room 1 than the area of Room 2?
Explain how you know.

I know this because
there are 20 squares in
Room 1 and 15 squares in
Room 2 and 20 is greater
than 15.

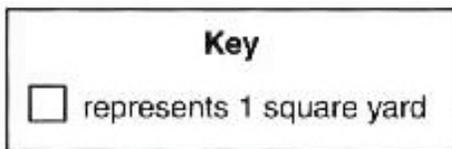
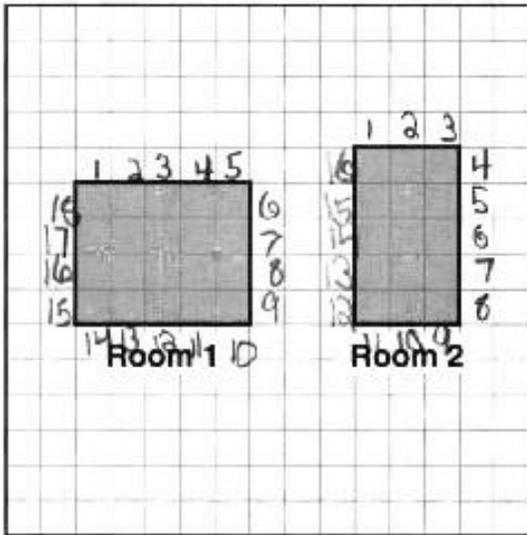
- 16 Room 1 and Room 2 are each shaped like a rectangle. A model of each room is shown below.



How many square yards larger is the area of Room 1 than the area of Room 2?
Explain how you know.

8 more squares
I counted the squares

- 16 Room 1 and Room 2 are each shaped like a rectangle. A model of each room is shown below.



How many square yards larger is the area of Room 1 than the area of Room 2?
Explain how you know.

It is two more because
if you subtract the
minimum from the maximum
you will get two.