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STUDENT
SAMPLE ITEM BOOKLET

Mathematics

Grade 3

MEA
Maine Educational Assessment

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Sample Items

Directions

Read each question and choose the best answer.

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1. A gym teacher is putting students into teams.

- There are 24 students.
- There will be 3 students on each team.

Which expression can be used to find the number of teams made by the gym teacher?

A 24×3

B $24 \div 3$

C $24 + 3$

D $24 - 3$

2. Which expression is another way to write 3×8?

A $3 \times 6 + 2$

B $3 + 6 \times 2$

C $3 + 6 \times 3 + 2$

D $3 \times 6 + 3 \times 2$

3. Maurice divided a rectangular garden into six equal parts. He plans to grow a different vegetable in each part of the garden, as shown.

Peas	Tomato	Onion
Squash	Pepper	Potato

What fraction of the garden is Maurice planning to use for onions?

A $\frac{1}{6}$

B $\frac{1}{5}$

C $\frac{5}{6}$

D $\frac{6}{1}$

4. Two machines at a factory cut large squares of cardboard into smaller pieces, as shown.
  • Machine 1 cuts each large square into 4 smaller squares.
  • Machine 2 cuts each large square into 8 rectangles. Each rectangle is the same size.

Machine 1   **Machine 2**
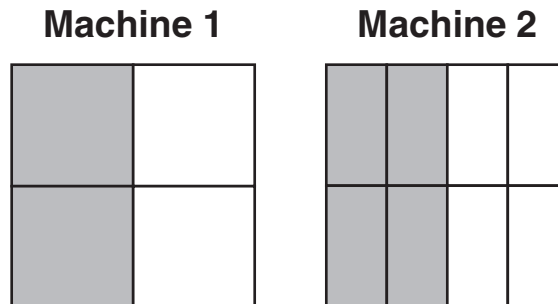
a. What fraction describes the shaded part of the large square cut by machine 1?

b. What fraction describes the shaded part of the large square cut by machine 2?

c. Is the shaded part of the large square for machine 1 equal in size to the shaded part of the large square for machine 2? Show your work or explain how you know.

At the factory, machine 3 cuts the large squares of cardboard into 6 rectangles. Each rectangle is the same size.

d. How many of the rectangles from machine 3 equal the shaded amount of rectangles from machine 2?

GO ON

Use the information below to answer questions 5 and 6.

Look at this problem.

Mr. Neitzel set up 7 rows of folding chairs. There were 9 folding chairs in each row. He placed 2 tables between each row of chairs. Mr. Neitzel also set up 10 high chairs. How many chairs in all did Mr. Neitzel set up?

5. What information is **not** needed to solve the problem?

   A the number of rows of folding chairs

   B the number of folding chairs in each row

   C the number of tables

   D the number of high chairs

6. Emma used this equation to find the number of folding chairs Mr. Neitzel set up.

$$7 \times 9 = \square$$

Which equation can Emma use to check her work?

   A $\square = 7 + 9$

   B $\square \div 9 = 7$

   C $\square - 7 = 9$

   D $\square \times 9 = 7$

STOP