MR

Direct Mathematics Assessment

629

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STUDENTS DO NOT WRITE IN THIS AREA

ROUND 1 *R*

T:____ R:____ T:__

Your teacher will read the entire test to you before you begin. It is important solve the problems on this assessment. No calculators are allowed on this assessment.

1. A class of twenty-four students is going on a fishing trip on Saturday. The table shows the cost of the items needed for the trip.

Item	Cost
Worms	$1.69 each dozen
Mealworms	$1.50 each carton
Scented marshmallows	$2.60 each jar
Hot dogs	$2.50 each package
Boat gas	$2.50 each gallon

Minimal development of basic skills.

a. The class is going to need three dozen worms, two cartons of mealworms, and two jars of scented marshmallows. What is the total cost of these items? *Show and label your work.*

Inadequate use of math symbols.

2.60
1.50
1.69
10.69

$10.69

b. Each student will eat two hot dogs for lunch. There are ten hot dogs per package. How many packages will the class need to buy? What is the total cost of the hot dogs? *Show and label your work.*

Lack of process development.

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
3 31 33 35 37 39 41 43 45 47 49 51 53

5 Packages

c. The class will need to buy twenty gallons of gas for the boat engine. How much money will they spend on gas? *Show and label your work.*

20
× 2.50
40.50

$40.50

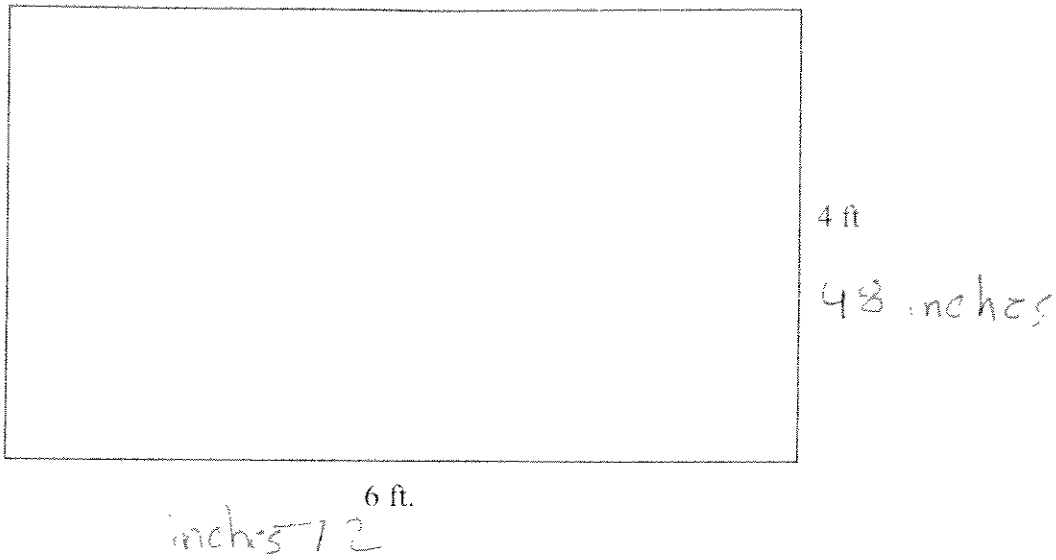
d. On Monday 1/6 of the students returned permission slips. On Tuesday another 1/6 of the students returned permission slips. What **fraction** of the students still needs to return a permission slip? *Show and label your work.*

$\frac{1}{6} \times \frac{1}{6} = \frac{2}{12}$

2. Molly and her mother made a quilt. The quilt was 6 feet long and 4 feet wide.

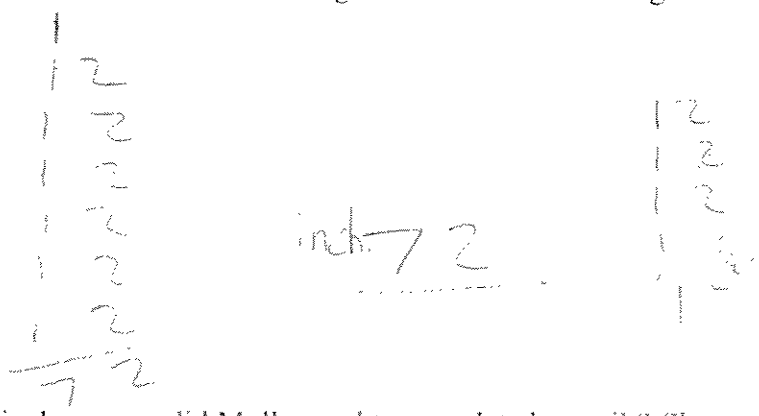
Minimal evidence of understanding of situations.

Inappropriate processes.

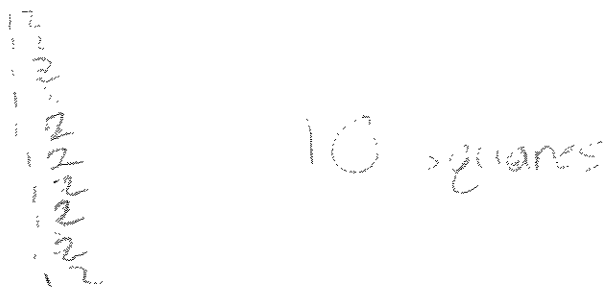


a. How many inches of ribbon were needed to go around the outside edge of the quilt? *Show and label your work.*

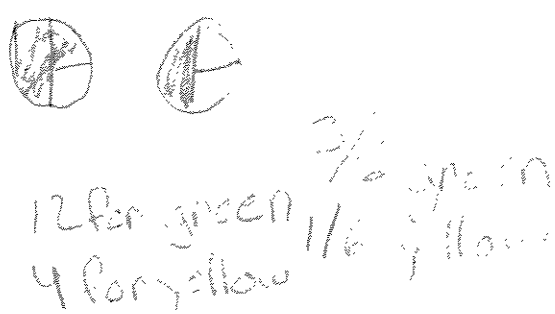
Significant lack of structure.



b. How many 12x12 inch squares did Molly need to complete her quilt? *Show and label your work*



c. If 2/3 of the squares are green and 1/3 are yellow, how many yellow squares would Molly need? *Show and label your work*



3. a. Complete the table below. *Show your work.*

	r	3r - 1
3 × 1 - 1 = 2	1	2
3x3-3=3	3	3
3x7-7=11	7	11
3x10-10=	10	20
3x 7-7=	3	35

b. Look at the following table. Complete the table and then write the rule for the table. *Show your work.*

	x	=
6 x	1	6
4 x	3	12
6 x	6	31
4 x	8	41
15 x	11	25

4. George has six pairs of pants (red, blue, tan, orange, white, and green) and three shirts (purple, yellow, and gold).

a. George's room is totally dark due to a power outage. What is the probability he will get a pair of orange or blue pants out of the closet the first time? Write the probability as a fraction. *Show and label your work.*

out of 10 + 30 orange
Blue pants 3

b. What is the probability that George will pick a yellow or gold shirt? Write the probability as a fraction. *Show and label your work.*

yellow
10 + 30 3
gold 6

c. If George chooses one shirt and one pair of pants, how many possible combinations will he have to choose from? *Show and label your work.*

7 pants 3 shirts

10

5. Your family is taking a road trip during the next school break. You drive 60 miles per hour. On the first day of your trip, you will drive a total of eight hours.

a. Complete the table below to show how many miles your family will travel the first day.

Driving Time

Hours	1	2	3	4	5	6	7	8
Miles	60	120	180	240	300	360	420	420

b. On the first day of your trip your family starts driving at 6:45 a.m. You stop to eat breakfast at 9:15 a.m. How long did your family drive before stopping for breakfast? *Show and label your work.*

8:45
9:15
2:55

3:55 min

c. While driving, your family takes the following breaks: 35 minutes for breakfast, 45 minutes for lunch, and one hour for dinner. How much time was spent on breaks? *Show and label your work.*

35
45
60
150

1 h. 50 min

d. If your family travels 750 miles, how many hours of driving time will it take driving 60 miles per hour? *Show and label your work.*

750

60

8:30