

Student Name: _____ Date: _____

5th Grade Cluster 3 Assessment

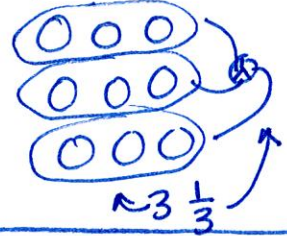
1. Nancy bought a pack of 10 cookies for her 3 children to share equally. How many cookies should each child get if the cookies are shared equally between the 3 children?

A 3 cookies

B $3\frac{1}{3}$ cookies

C $3\frac{1}{2}$ cookies

D 4 cookies



2. The math club has 96 members. $\frac{1}{8}$ of the members are fourth graders and the rest are fifth graders. How many math club members are fifth graders?

A 12

B 16

C 80

D 84

$\frac{1}{8} \times 96 = 12$

96	
-12	
84	

$7 \times 12 = 84$

3. Kadaris completed his math homework in $\frac{1}{3}$ of an hour.

- He had to complete 4 math problems.
- He spent an equal amount of time on each problem.

$\frac{1}{3} \div 4 = \frac{1}{12}$

	2	3	4
5	6	7	8
9	10	11	12

How much of an hour did Kadaris spend on each problem?

A $\frac{1}{12}$

B $\frac{1}{7}$

C $\frac{3}{4}$

D 12

4. In which equation is the product **greater than 3**?

A $\frac{3}{4} \times 3$

B $\frac{3}{2} \times 3$

C $\frac{1}{12} \times 3$

D $\frac{9}{10} \times 3$

- A $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$
- B $\frac{3}{2} + \frac{3}{2} + \frac{3}{2} = \frac{9}{2} = 4\frac{1}{2}$
- C $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} = \frac{3}{12} = \frac{1}{4}$
- D $\frac{9}{10} + \frac{9}{10} + \frac{9}{10} = \frac{27}{10} = 2\frac{7}{10}$

5. Which of the following questions could be answered using the expression $3 \div \frac{1}{3}$?

$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ A How many miles will Humiko walk if she walks $\frac{1}{3}$ mile each day for 9 days? $\frac{1}{3} \times 9 = \frac{9}{3} = 3$

B How many $\frac{1}{3}$ cup serving can be made from a 3 cup bag of granola? $3 \div \frac{1}{3}$

C How much of a pie will each person get if 3 people share $\frac{1}{3}$ of a pie? $\frac{1}{3} \div 3 = \frac{1}{9}$

D How much granola is left if $\frac{1}{3}$ cup is taken from a 3 cup bag? $3 - \frac{1}{3} = 2\frac{2}{3}$

6. Jennifer planted a garden that was $6\frac{1}{2}$ yards long and 4 yards wide. She decided that she wants to double the area of her garden. Which of the following could be the dimensions of her garden after she doubles the area?

$3\frac{1}{4} \times 8 = 24 + 2 = 26$ A $3\frac{1}{4}$ yards long and 8 yards wide

B 13 yards long and 2 yards wide $13 \times 2 = 26$

C 13 yards long and 4 yards wide $13 \times 4 = 52$ b/c $13 = 6\frac{1}{2} \times 2$

D 13 yards long and 8 yards wide $13 \times 8 = 104$

$26 \times 2 = 52$

7. Ting Wei has 4 kittens.

- Ting Wei feeds these kittens a total of 11 ounces of food. $11 \div 4 = \frac{11}{4} = 2\frac{3}{4}$
- Ting Wei feeds each kitten an equal amount of food.

Which statement is true?

A Each kitten is fed $2\frac{3}{4}$ ounces of food.

B Each kitten is fed $2\frac{1}{2}$ ounces of food.

C Each kitten is fed $2\frac{1}{3}$ ounces of food.

D Each kitten is fed 2 ounces of food.

8. Amy and Kaneka both drew a rectangle.

- Amy's rectangle was 4 inches long and $\frac{1}{2}$ inch wide. $4 \times \frac{1}{2} = 2$ Amy
- Kaneka's rectangle was 8 inches long and $\frac{1}{2}$ inch wide. $8 \times \frac{1}{2} = 4$ Kaneka

Which of the following statements is true about the two gardens?

A Amy and Kaneka drew rectangles with the same area.

B Amy's rectangle has an area that is 4 square inches less than Kaneka's rectangle. $4 - 2 = 2$

C Kaneka's rectangle is double the size of Amy's rectangle. $2 \times 2 = 4$

D Amy's rectangle is larger than Kaneka's rectangle 2×4

9. Each can on a shelf has a mass of $\frac{3}{5}$ kilogram. What is the total mass of 9 of these cans?

A $\frac{12}{45}$ kilogram

B $\frac{27}{45}$ kilogram

C $\frac{12}{5}$ kilograms

D $\frac{27}{5}$ kilograms

$$9 \times \frac{3}{5} =$$

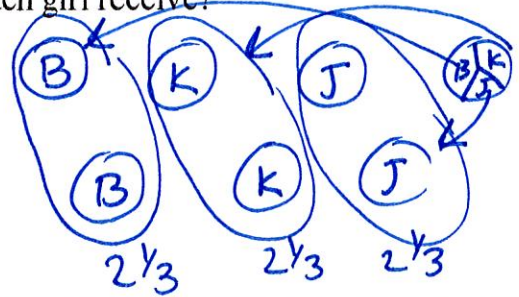
$$\frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5} + \frac{3}{5}$$

$$\frac{27}{5}$$

10. Bella, Katina, and Juanita have 7 cookies to share. If the girls want to share the cookies equally, how many cookies should each girl receive?

Answer:

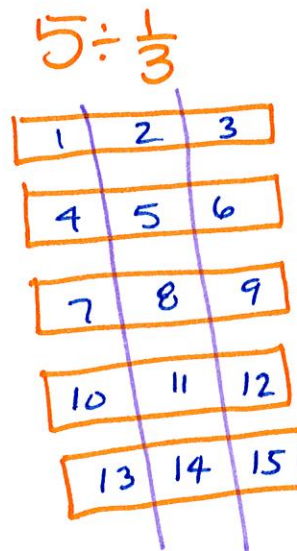
2 $\frac{1}{3}$ cookies



11. Darice had 5 feet of ribbon. She needs $\frac{1}{3}$ foot of ribbon to make an ornament. How many ornaments can she make with the amount of ribbon she has?

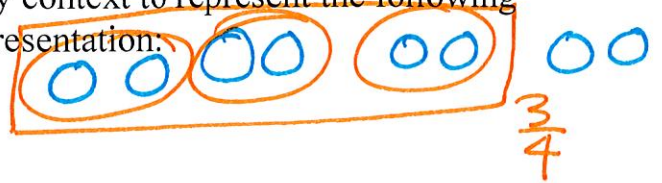
Answer:

15 ornaments

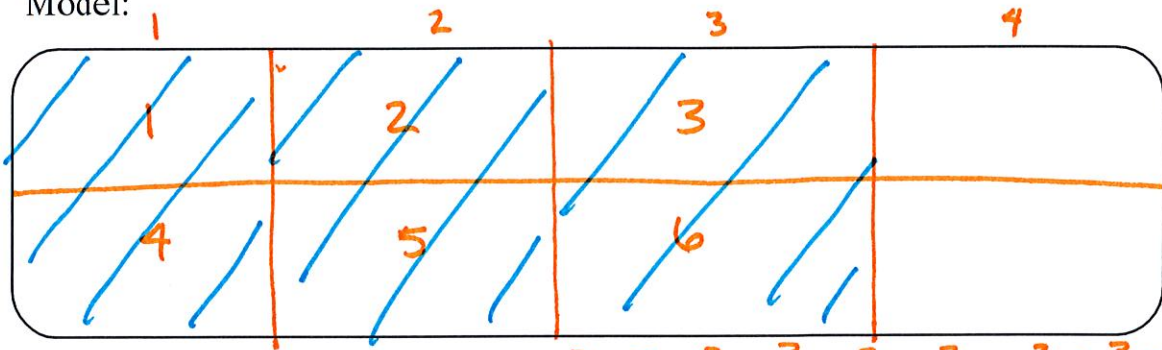


12. Create a visual fraction model and a story context to represent the following equation. Include the product in your representation:

$$8 \times \frac{3}{4} = \underline{6}$$



Model:



$$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{24}{4} = 6$$

Product: _____

Write a story context to match this equation.

Susie wanted to invite 8 friends to the movies. Only $\frac{3}{4}$ of them were able to attend. How many friends came to the movies?

Each of 8 dogs is given $\frac{3}{4}$ of a cup of food each day. How many cups of food total are given each day?