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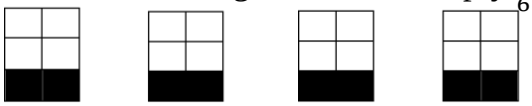
4.NF.B.4 Multiply Fractions and Whole Numbers – I

4.NF.B.4: Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.

Give what is asked in each item and write your answers on the space provided.

1. Answer the following.

a. Use the following model to multiply $\frac{2}{6}$ and 4.



b. Use the following model to $\frac{1}{2}$ and 3.

Answers:

a. b.

2. Find the product using a model.

a. $\frac{3}{5} \times 6$ c. $\frac{1}{2} \times 9$

b. $\frac{1}{3} \times 5$ d. $\frac{1}{4} \times 8$

Answers:

a. b. c. d.

3. My father uses $\frac{5}{6}$ gallons of paint to paint a wall. He has to paint 6 walls. How many gallons of paint does father need? Show your solution.

Answer:

4. The worker needs $\frac{7}{8}$ liters of water to clean a dish. How many liters of water is needed to wash 5 dishes? How much does the worker need to wash 10 dishes? Show your solution.

Answer:

5. Ella needs $\frac{3}{8}$ cups of sugar to make a liter of a certain juice. If she is to make 4 liters of the said juice, how many cups of sugar will she need? Show your solution.

Answer:

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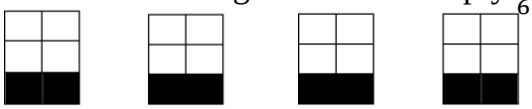
Answer Key

Give what is asked in each item and write your answers on the space provided.

1. Answer the following.

a. Use the following model to multiply $\frac{2}{6}$ and 4.



b. Use the following model to $\frac{1}{2}$ and 3.

Answers:

a. $1\frac{1}{3}$ b. $1\frac{1}{2}$

2. Find the product using a model.

a. $\frac{3}{5} \times 6$ c. $\frac{1}{2} \times 9$

b. $\frac{1}{3} \times 5$ d. $\frac{1}{4} \times 8$

Answers:

a. $3\frac{3}{5}$ b. $1\frac{2}{5}$ c. $4\frac{1}{2}$ d. 2

3. My father uses $\frac{5}{6}$ gallons of paint to paint a wall. He has to paint 6 walls. How many gallons of paint does father need? Show your solution.

Answer:

$\frac{5}{6} \times 6 = 5$ gallons of paint

4. The worker needs $\frac{7}{8}$ liters of water to clean a dish. How many liters of water is needed to wash 5 dishes? How much does the worker need to wash 10 dishes? Show your solution.

Answer:

$\frac{7}{8} \times 5 = 4\frac{3}{8}$ liters of water for 5 dishes, $\frac{7}{8} \times 10 = 8\frac{3}{4}$ liters of water for 10 dishes

5. Ella needs $\frac{3}{8}$ cups of sugar to make a liter of a certain juice. If she is to make 4 liters of the said juice, how many cups of sugar will she need? Show your solution.

Answer:

$\frac{3}{8} \times 4 = 1\frac{1}{2}$ cups of sugar