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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 $\frac{5}{6}$ and 4.

    b. Use the following model to $\frac{1}{2}$ and 5.

Answers:	
a.	b.

2. Find the product using a model.

  a. $\frac{1}{5} \times 5$ c. $\frac{6}{7} \times 4$

  b. $\frac{1}{9} \times 15$ d. $\frac{2}{4} \times 8$
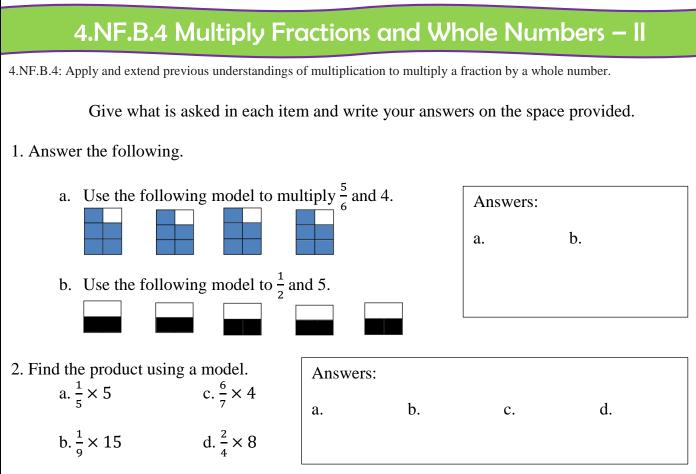
Answers:			
a.	b.	c.	d.

3. My uncle uses $\frac{4}{7}$ gallons of paint to paint a wall. He has to paint 6 walls. If he has 6 gallons of paint, how much paint will be left after painting 5 walls? Show your solution.

Answer:

4. The baker needs $\frac{7}{8}$ kg of flour to make 10 slices of bread. If he is to make 30 slices, how much flour does he need? Show your solution.

Answer:

5. An athlete should exercise at least $\frac{5}{7}$ hours for 2 days. How much is the athlete's minimum time spent exercising in 8 days? Show your solution.
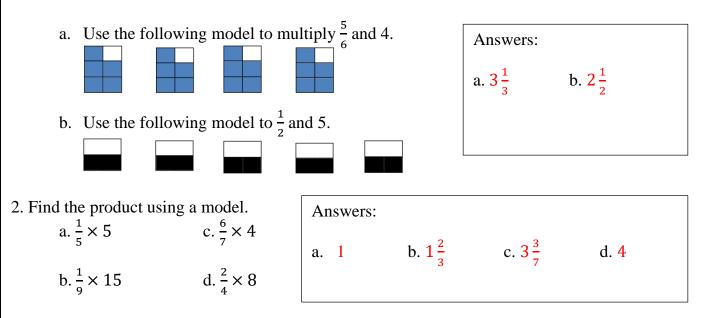
Answer:

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

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

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 $\frac{5}{6}$ and 4.

   b. Use the following model to $\frac{1}{2}$ and 5.

   Answers:

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

2. Find the product using a model.

   a. $\frac{1}{5} \times 5$ c. $\frac{6}{7} \times 4$

   b. $\frac{1}{9} \times 15$ d. $\frac{2}{4} \times 8$

   Answers:

   a. 1   b. $1\frac{2}{3}$ c. $3\frac{3}{7}$ d. 4

3. My uncle uses $\frac{4}{7}$ gallons of paint to paint a wall. He has to paint 6 walls. If he has 6 gallons of paint, how much paint will be left after painting 5 walls? Show your solution.

   Answer:

   $6 - \left(\frac{4}{7} \times 5\right) = 3\frac{1}{7}$ gallons

4. The baker needs $\frac{7}{8}$ kg of flour to make 10 slices of bread. If he is to make 30 slices, how much flour does he need? Show your solution.

   Answer:

   $30 \div 10 = 3$, $\frac{7}{8} \times 3 = 2\frac{5}{8}$ kg

5. An athlete should exercise at least $\frac{5}{7}$ hours for 2 days. How much is the athlete's minimum time spent exercising in 8 days? Show your solution.

   Answer:

   $8 \div 2 = 4$, $\frac{5}{7} \times 4 = 2\frac{6}{7}$ hours