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5.NF.B.4 Multiplication Among Fraction and Mixed Numbers

5.NF.B.4 Extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.

1. Find the product. Write your answer in a simplest form.

   a. $\frac{7}{8} \times \frac{9}{14}$

   b. $\frac{3}{13} \times 15$

   c. $\frac{4}{17} \times \frac{3}{8}$

   d. $\frac{8}{21} \times \frac{3}{14}$

   e. $\frac{9}{28} \times 5$

   f. $\frac{7}{12} \times \frac{9}{49}$

   g. $\frac{7}{3} \times 8$

   h. $\frac{2}{5} \times \frac{5}{14}$

   Solution
   a.   e.

   b.   f.

   c.   g.

   d.   h.

2. Madonna used $\frac{3}{5}$ cup of sugar to bake a chiffon cake. If the cup of sugar weighs 15 pounds, what was the weight of sugar that Madonna used to bake?

   Solution

3. Harry, a salesman of Furniture Company, gets $\frac{1}{10}$ of the sale revenue as commission. His manager gets $\frac{1}{5}$ of Harry's commission. If Harry sold the furniture worth \$10,000, how much money will his manager get?

   Solution

4. Jersey used $\frac{1}{3}$ of 9 gallons of milk to feed her puppies. She used another $\frac{1}{5}$ of the milk to feed the kittens. How many gallons of milk did she use to feed the puppies and kittens?

   Solution

5. James played for the duration of $\frac{1}{4}$ of first quarter of a basketball game. He played another $\frac{1}{3}$ of third quarter and $\frac{3}{4}$ of the last quarter. If the whole game lasted 72 minutes, how long did James play the game?

   Solution

6. Rica drink $\frac{1}{5}$ of the $\frac{4}{5}$ of a glass of water. How much water did Rica drink?

   Solution

   A. $\frac{7}{5}$ B. $\frac{1}{5}$ C. $\frac{2}{5}$ D. $\frac{3}{5}$

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   g. $\frac{7}{3} \times 8$

   h. $\frac{2}{5} \times \frac{5}{14}$

   Solution

   a. $\frac{9}{16}$ e. $1\frac{17}{28}$

   b. $3\frac{6}{13}$ f. $\frac{3}{28}$

   c. $\frac{3}{34}$ g. $18\frac{2}{3}$

   d. $\frac{4}{49}$ h. $\frac{1}{7}$

2. Madonna used $\frac{3}{5}$ cup of sugar to bake a chiffon cake. If the cup of sugar weighs 15 pounds, what was the weight of sugar that Madonna used to bake?

   Solution
   9 pounds

3. Harry, a salesman of Furniture Company, gets $\frac{1}{10}$ of the sale revenue as commission. His manager gets $\frac{1}{5}$ of Harry's commission. If Harry sold the furniture worth $10,000, how much money will his manager get?

   Solution
   $200

4. Jersey used $\frac{1}{3}$ of 9 gallons of milk to feed her puppies. She used another $\frac{1}{5}$ of the milk to feed the kittens. How many gallons of milk did she use to feed the puppies and kittens?

   Solution
   4.8 gallons

5. James played for the duration of $\frac{1}{4}$ of first quarter of a basketball game. He played another $\frac{1}{3}$ of third quarter and $\frac{3}{4}$ of the last quarter. If the whole game lasted 72 minutes, how long did James play the game?

   Solution
   24 minutes

6. Rica drinks $\frac{1}{5}$ of the $\frac{4}{5}$ of a glass of water. How much water did Rica drink?

   A. $\frac{1}{25}$ B. $\frac{2}{25}$ C. $\frac{3}{25}$ D. $\frac{4}{25}$

   Solution
   D