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5.NF.B.4 Multiplication of Fractions

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. $\frac{1}{5} \times \frac{1}{4}$

b. $\frac{3}{8} \times \frac{12}{29}$

c. $\frac{4}{5} \times \frac{3}{18}$

d. $\frac{5}{25} \times \frac{3}{2}$

e. $\frac{9}{18} \times 6$

f. $\frac{3}{12} \times \frac{9}{36}$

g. $\frac{7}{3} \times \frac{5}{25}$

h. $\frac{5}{22} \times \frac{50}{150}$

Solution
a. e.
b. f.
c. g.
d. h.

2. Michael ate $\frac{3}{5}$ of pizza. His sister Angel ate $\frac{1}{2}$ of what was left. What fraction of pizza eaten by Angel? What fraction of pizza is still left over?

Solution

3. Jason saved $80 during summer break. He spent $\frac{1}{5}$ of his savings on a pair of football shoes. He spent $\frac{1}{4}$ of the remaining money on buying football cap. What fraction of his total saving is still left with him?

Solution

4. Compare. Write <, >, or = for each ☐ .

a. $\frac{4}{5} \times \frac{3}{18}$ ☐ $\frac{1}{5} \times \frac{3}{9}$

b. $\frac{2}{13} \times \frac{5}{12}$ ☐ $\frac{3}{5} \times \frac{4}{8}$

c. $\frac{10}{60} \times \frac{3}{9}$ ☐ $\frac{1}{6} \times \frac{9}{27}$

Solution
a.
b.
c.

5. Rhea drink $\frac{3}{4}$ of all the milk in a package for breakfast. She gave $\frac{1}{5}$ of the remaining milk in the package to her dog. If there were 5 glasses of milk in a package, how much milk are remaining?

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

Solution

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Answer Key

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.

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b. $\frac{3}{8} \times \frac{12}{29}$

c. $\frac{4}{5} \times \frac{3}{18}$

d. $\frac{5}{25} \times \frac{3}{2}$

e. $\frac{9}{18} \times 6$

f. $\frac{3}{12} \times \frac{9}{36}$

g. $\frac{7}{3} \times \frac{5}{25}$

h. $\frac{5}{22} \times \frac{50}{150}$

Solution

a. $\frac{1}{20}$

b. $\frac{9}{58}$

c. $\frac{2}{15}$

d. $\frac{3}{10}$

e. 3

f. $\frac{1}{16}$

g. $\frac{7}{15}$

h. $\frac{5}{66}$

2. Michael ate $\frac{3}{5}$ of pizza. His sister Angel ate $\frac{1}{2}$ of what was left. What fraction of pizza eaten by Angel? What fraction of pizza is still left over?

Solution

$\frac{1}{5}$; $\frac{1}{5}$

3. Jason saved $80 during summer break. He spent $\frac{1}{5}$ of his savings on a pair of football shoes. He spent $\frac{1}{4}$ of the remaining money on buying football cap. What fraction of his total saving is still left with him?

Solution

$\frac{3}{5}$

4. Compare. Write <, >, or = for each ☐

a. $\frac{4}{5} \times \frac{3}{18}$ ☐ $\frac{1}{5} \times \frac{3}{9}$

b. $\frac{2}{13} \times \frac{5}{12}$ ☐ $\frac{3}{5} \times \frac{4}{8}$

c. $\frac{10}{60} \times \frac{3}{9}$ ☐ $\frac{1}{6} \times \frac{9}{27}$

Solution

a. >

b. <

c. =

5. Rhea drink $\frac{3}{4}$ of all the milk in a package for breakfast. She gave $\frac{1}{5}$ of the remaining milk in the package to her dog. If there were 5 glasses of milk in a package, how much milk are remaining?

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

Solution

B