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

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. Find the product.

a. $\frac{3}{4} \times 5$ b. $\frac{4}{5} \times 6$ c. $\frac{1}{3} \times 7$ d. $\frac{2}{8} \times 3$

e. $\frac{9}{4} \times 2$ f. $\frac{7}{5} \times 4$ g. $\frac{13}{5} \times 10$ h. $\frac{6}{5} \times 6$

Answers:

a. b. c. d.

e. f. g. h.

2. Use the table on your left to answer the questions. Write your answers as a proper fraction or mixed numbers.

Time Chart for Cooking Each Cake	
Cakes	Time (in hrs)
Banana	$\frac{1}{2}$
Butter	$\frac{3}{5}$
Chocolate	$\frac{6}{7}$
Black Forest	$\frac{5}{8}$

How much time is needed to make:

a. 2 banana and 2 black forest cakes?
b. 3 butter and 4 banana cakes?
c. half chocolate and half black forest?

Answers:

a. b. c.

3. An apple costs $\frac{1}{2}$ dollars while an orange costs $\frac{1}{3}$ dollars. How much will you pay for two dozens of each fruit? Show your solution.

Answer:

4. An encoder can encode $\frac{9}{4}$ pages in an hour. If she encodes for 5 hours, how many pages can she finish?

Answer:

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Answer Key

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e. $\frac{9}{4} \times 2$ f. $\frac{7}{5} \times 4$ g. $\frac{13}{5} \times 10$ h. $\frac{6}{5} \times 6$

Answers:

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

e. $4\frac{1}{2}$ f. $5\frac{3}{5}$ g. 26 h. $7\frac{1}{5}$

2. Use the table on your left to answer the questions. Write your answers as a proper fraction or mixed numbers.

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How much time is needed to make:

a. 2 banana and 2 black forest cakes?
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c. half chocolate and half black forest?

Answers:

a. $2\frac{1}{4}$ hrs b. $3\frac{4}{5}$ hrs c. $\frac{83}{112}$ hrs

3. An apple costs $\frac{1}{2}$ dollars while an orange costs $\frac{1}{3}$ dollars. How much will you pay for two dozens of each fruit? Show your solution.

Answer:

$\left(\frac{1}{2} \times 24\right) + \left(\frac{1}{3} \times 24\right) = 20$ dollars

4. An encoder can encode $\frac{9}{4}$ pages in an hour. If she encodes for 5 hours, how many pages can she finish?

Answer:

$\left(\frac{9}{4} \times 5\right) = 11\frac{1}{4}$ pages