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5.NBT.A.2 Word Problems on Multiplication Pattern in

5.NBT.A.2: Explain patterns in zeros of the product and in the placement of the decimal point.

1. Use facts and multiplication patterns to find the product.

   Answers:

   a. 0.003×30 a.
   b. $80,000 \times 0.003$ b.
   c. 600×0.05 c.
   d. $0.02 \times 12,000$ d.
   e. $4,000 \times 1.4$ e.
   f. $50,000 \times 0.003$ f.
   g. $0.005 \times 70,000$ g.
   h. $0.003 \times 400,000$ h.

2. Find the missing number (__) to make a true number sentence.

   a. _____ $\times 4,000 = 200$
   b. $2,500 \times$ _____ $= 100$
   c. _____ $\times 500 = 1.5$
   d. _____ $\times 10,000 = 1,200$
   e. _____ $\times 80,0000 = 6,400$
   f. $0.01 \times 500,000 =$ _____
   g. _____ $\times 600 = 0.48$
   h. _____ $\times 230 = 0.69$

3. A thrift store sells different kinds of kitchen wares at half the original price. The table on your right shows the updated price list of each kitchenware. Use the table to answer the questions below.
   a. In a week the total sales of plates is $200. How many plates were sold?
   b. The thrift store delivered 2 boxes of cups, each having 100 cups to a restaurant. How much money will the restaurant pay the thrift store?
   c. A customer bought 4 boxes of kitchen wares, each having 300 spoons and 300 forks. How much money did the customer spend?

Kitchen Wares

Kitchen Ware	Unit Price
spoon	$0.40
fork	$0.80
plate	$0.40
cup	$0.28

Answers:

a.   b.   c.

4. The weight of a dandelion seed is about 0.08 grams. Caleb estimated that there are 70,000 dandelion seeds in a box. How much does the box of seeds weigh if his estimation is correct?

   Answer:

5. A jar has 500 beads inside, each weighing 0.025 milligrams. What is the weight of all the beads inside the jar?

   A. 12.5 mg   B. 50 mg   C. 15.2 mg   D. 10 mg

   Answer:

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Answer Key

1. Use facts and multiplication patterns to find the product.

		Answers:	
a.	0.003×30	a.	0.09
b.	$80,000 \times 0.003$	b.	240
c.	600×0.05	c.	30
d.	$0.02 \times 12,000$	d.	240
e.	$4,000 \times 1.4$	e.	5,600
f.	$50,000 \times 0.003$	f.	150
g.	$0.005 \times 70,000$	g.	350
h.	$0.003 \times 400,000$	h.	1,200

2. Find the missing number (__) to make a true number sentence.

a. __0.05__ $\times 4,000 = 200$

b. $2,500 \times$ __0.04__ $= 100$

c. __0.003__ $\times 500 = 1.5$

d. __0.12__ $\times 10,000 = 1,200$

e. __0.08__ $\times 80,0000 = 6,400$

f. $0.01 \times 500,000 =$ __5,000__

g. __0.0008__ $\times 600 = 0.48$

h. __0.003__ $\times 230 = 0.69$

2. A thrift store sells different kinds of kitchen wares at half the original price. The table on your right shows the updated price list of each kitchenware. Use the table to answer the questions below.

a. In a week the total sales of plates is $200. How many plates were sold?

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Kitchen Wares

Kitchen Ware	Unit Price
spoon	$0.40
fork	$0.80
plate	$0.40
cup	$0.28

Answers:

a. 500 plates   b. $56   c. $1,440

4. The weight of a dandelion seed is about 0.08 grams. Caleb estimated that there are 70,000 dandelion seeds in a box. How much does the box of seeds weigh if his estimation is correct?

Answer:
5,600 g

5. A jar has 500 beads inside, each weighing 0.025 milligrams. What is the weight of all the beads inside the jar?

A. 12.5 mg   B. 50 mg   C. 15.2 mg   D. 10 mg

Answer:
A. 12.5 mg