

## 5.NBT.B.5 Multiplying by One Digit (Data and Word Problems)

5.NBT.B.5: Fluently multiply multi-digit whole numbers using the standard algorithm.

1. Simon wrote this equation on the board:  
 $7 \times 1,280 = 7 \times 1,200 + 7 \times 200 + 7 \times 8$   
 Explain his error. Write the equation correctly.

Answer:

2. Eight second-hand cars are on sale at the price of \$425,680 each. If all the cars were only bought from the first owners at \$387,450 each, how much profit will the seller make after all the eight cars are sold?

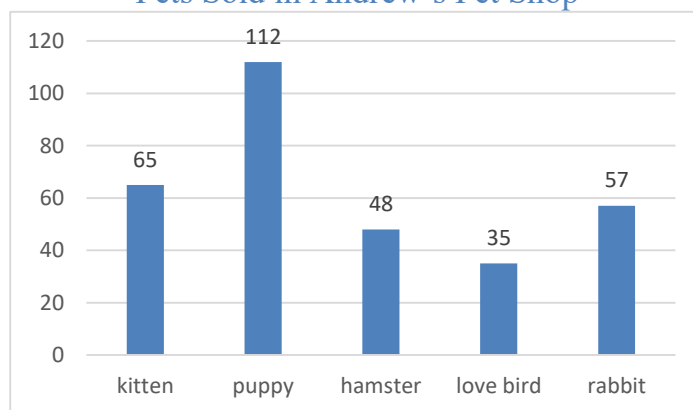
Answer:

3. A large laser jet printer can print 72,314 pages in a week. If one page costs 9 cents, how much will all the pages in a week cost?

Answer:

4. Andrew is a pet shop owner. The chart on your right shows the pet shop's sale last month. Andrew earns a profit of \$6 for each pet bought. Use the information to answer the questions below.

Pets Sold in Andrew's Pet Shop



- a. How much profit does Andrew earn by selling kittens and puppies?
- b. How much more profit does Andrew get in rabbits than hamsters?
- c. How much profit in total did Andrew earn in the last month?
- d. Did Andrew earn more money by selling pets at \$6 profit or by selling pets at \$8 profit?

Answers:

a.

b.

c.

d.

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## Answer Key

1. Simon wrote this equation on the board:  
 $7 \times 1,280 = 7 \times 1,200 + 7 \times 200 + 7 \times 8$   
 Explain his error. Write the equation correctly.

**Answer:**  
 1,200 should be 1,000 and 8 should be 80.  
 The correct equation is:  $7 \times 1,000 + 7 \times 200 + 7 \times 80$

2. Eight second-hand cars are on sale at the price of \$425,680 each. If all the cars were only bought from the first owners at \$387,450 each, how much profit will the seller make after all the eight cars are sold?

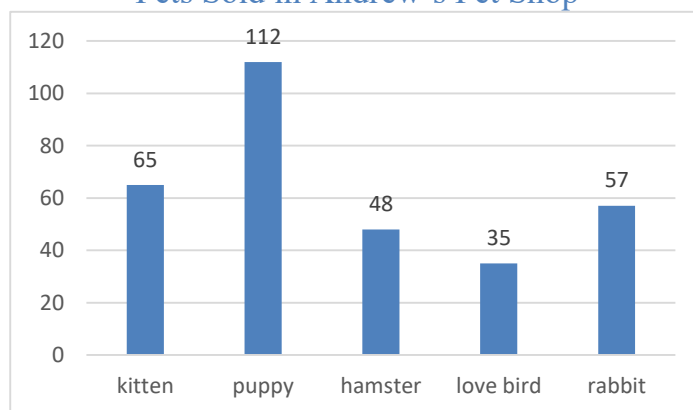
**Answer:**  
**\$305,840**

3. A large laser jet printer can print 72,314 pages in a week. If one page costs 9 cents, how much will all the pages in a week cost?

**Answer:**  
**650,826 cents**

4. Andrew is a pet shop owner. The chart on your right shows the pet shop's sale last month. Andrew earns a profit of \$6 for each pet bought. Use the information to answer the questions below.

Pets Sold in Andrew's Pet Shop



- a. How much profit does Andrew earn by selling kittens and puppies?
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- d. Did Andrew earn more money by selling pets at \$6 profit or by selling pets at \$8 profit?

**Answers:**

- a. **\$1,062**
- b. **\$54**
- c. **\$1,902**
- d. **He will earn more money by selling pets at \$8 profit.**