

## 5.NBT.B.5 Estimating Products Word Problems

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

1. Estimate the product by rounding each number to its greatest place value.

- a.  $3,028 \times 247$
- b.  $312 \times 1,214$
- c.  $1,301,204 \times 214$
- d.  $360 \times 5,874$
- e.  $184 \times \$5,532.31$

Answers:

- f.  $154 \times 975$
- g.  $247 \times 614$
- h.  $3,842 \times 357$
- i.  $3.27 \times 6,103$
- j.  $215 \times \$24.36$

Answers:

2. My father pays \$43.20 each month for his car's maintenance. About how much will my father spend in his car's maintenance for 9 months?

Answer:

3. Each year, a telephone company earns \$3,210,451. About how much did the company earn in 12 years when they earn the same money each year?

Answer:

4. An express train travels about 4,237 miles from the first station up to the last station. About how many miles does the train travel in 52 trips?

Answer:

5. My brother's salary for a month is \$3,145. About how much does he earn each year?

Answer:

6. A rocket company will take about 2,178 working days to build one rocket. About how many days will it take the company to complete 32 rockets? Assume that the company can build one rocket at a time.

Answer:

7. A supermarket sells about a total of 8,762 goods each day. About how many goods does the supermarket sell in 4 months? Assume that each month has 30 days.

Answer:

8. There are about 122 students in a school. Each student was given 12 books each. About how many books are given to all the students?

- A. 1,200      B. 1,500      C. 12,000      D. 15,000

Answer:

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### Answer Key

1. Estimate the product by rounding each number to its greatest place value.

- a.  $3,028 \times 247$
- b.  $312 \times 1,214$
- c.  $1,301,204 \times 214$
- d.  $360 \times 5,874$
- e.  $184 \times \$5,532.31$

Answers:

600,000  
300,000  
200,000,000  
2,400,000  
\$1,200,000

- f.  $154 \times 975$
- g.  $247 \times 614$
- h.  $3,842 \times 357$
- i.  $3.27 \times 6,103$
- j.  $215 \times \$24.36$

Answers:

200,000  
120,000  
1,600,000  
18,000  
\$4,000

2. My father pays \$43.20 each month for his car's maintenance. About how much will my father spend in his car's maintenance for 9 months?

Answer:

$\$40 \times 9 = \$360$

3. Each year, a telephone company earns \$3,210,451. About how much did the company earn in 12 years when they earn the same money each year?

Answer:

$\$3,000,000 \times 12 = \$36,000,000$

4. An express train travels about 4,237 miles from the first station up to the last station. About how many miles does the train travel in 52 trips?

Answer:

$4,000 \times 52 = 208,000$

5. My brother's salary for a month is \$3,145. About how much does he earn each year?

Answer:

$\$3,000 \times 12 = \$36,000$

6. A rocket company will take about 2,178 working days to build one rocket. About how many days will it take the company to complete 32 rockets? Assume that the company can build one rocket at a time.

Answer:

$2,000 \times 32 = 64,000$  days

7. A supermarket sells about a total of 8,762 goods each day. About how many goods does the supermarket sell in 4 months? Assume that each month has 30 days.

Answer:

$9,000 \times 30 \times 4 = 1,080,000$  goods

8. There are about 122 students in a school. Each student was given 12 books each. About how many books are given to all the students?

- A. 1,200      B. 1,500      C. 12,000      D. 15,000

Answer:

A. 1,200