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5.NBT.A.2 Multiplication Patterns in Solving Products

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 complete the multiplication sentences.

1. Osc facts and multiplic	1. Ose facts and multiplication patterns to complete the multiplication sentences.				
Example	$7 \times 4 =$	3 × 8 =	4 × 9 =		
$3 \times 9 = 27$ (fact)					
$3 \times 90 = 270$	$7 \times 40 =$	$3 \times 80 =$	40 × 90 =		
$30 \times 900 = 27,000$	$700 \times 400 =$	$30 \times 800 =$	400 × 900 =		
$300 \times 900 = 270,000$	$7 \times 4,000 =$	$300 \times 8,000 =$	$40 \times 9,000 =$		
5 × 6 =	9 × 5 =	$14 \times 3 =$	5 × 12 =		
50 × 6 =	$9 \times 50 =$	$140 \times 30 =$	5 × 120 =		
500 × 600 =	90 × 500 =	$1,400 \times 30 =$	50 × 1,200 =		
$5,000 \times 60 =$	90 × 5,000 =	$14,000 \times 3 =$	50 × 12,000 =		

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

a.	30	×	90	0

b. 70×500

c. 80×80

d. $600 \times 1,500$

e. $150 \times 6,000$

f. $5 \times 7,000$

g. $20 \times 2,200$

h. $200 \times 20,000$

i. $60 \times 4,000$

j. $80 \times 6,000$

Answers:

a.

b.

c.

d. e.

f.

g.

h.

.

i.

j.

3. There are 7 rows of chairs in a miniconcert hall. Each row had 80 chairs. How many chairs are there in the miniconcert hall?

Answer:

4. A farmer planted 60 rows of seeds. Each row has 20 mango seeds and 40 maple seeds. How many seeds did the farmer plant?

Answer:

5. Harry can type 50 words in a minute. How many words can he type in 5 hours?

Answer:

6. An average of 300 customers visits an amusement park each day. Each customer was charged with a \$5 entrance fee. How much entrance fee does the park collect each day on the average?

A. \$5,100

B. \$1,000

C. \$1,050

D. \$1,500

Answer:

7. $9,000 \times k = 54,000,000$. What is the value of k?

A. 6,000

B. 600

C. 60

D. 6

Answer:

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Answer Key

1. Use facts and multiplication patterns to complete the multiplication sentences.

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Example	$7 \times 4 = 28$	$3 \times 8 = 24$	$4 \times 9 = 36$		
$3 \times 9 = 27 \text{ (fact)}$					
$3 \times 90 = 270$	$7 \times 40 = 280$	$3 \times 80 = 240$	$40 \times 90 = 3,600$		
$30 \times 900 = 27,000$	$700 \times 400 = 280,000$	$30 \times 800 = 24,000$	$400 \times 900 = 360,000$		
$300 \times 900 = 270,000$	$7 \times 4,000 = 28,000$	$300 \times 8,000 = 2,400,000$	$40 \times 9,000 = 360,000$		
$5 \times 6 = 30$	$9 \times 5 = 45$	$14 \times 3 = 42$	$5 \times 12 = 60$		
$50 \times 6 = 300$	$9 \times 50 = 450$	$140 \times 30 = 4,200$	$5 \times 120 = 600$		
$500 \times 600 = 300,000$	$90 \times 500 = 45,000$	$1,400 \times 30 = 42,000$	$50 \times 1,200 = 60,000$		
$5,000 \times 60 = 300,000$	$90 \times 5,000 = 450,000$	$14,000 \times 3 = 42,000$	$50 \times 12,000 = 600,000$		

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

a.	30	\times	900

b. 70×500

c.
$$80 \times 80$$

d.
$$600 \times 1,500$$

e.
$$150 \times 6.000$$

f.
$$5 \times 7,000$$

g.
$$20 \times 2,200$$

h.
$$200 \times 20,000$$

i.
$$60 \times 4,000$$

j.
$$80 \times 6,000$$

- a. 27,000
- b. 35,000
- c. 6.400
- d. 900,000
- e. 900,000
- f. 35,000
- g. 44,000
- h. 4,000,000
- i. 240,000
- j. 480,000

3. There are 7 rows of chairs in a miniconcert hall. Each row had 80 chairs. How many chairs are there in the mini-concert hall?

Answer:

560 chairs

4. A farmer planted 60 rows of seeds. Each row has 20 mango seeds and 40 maple seeds. How many seeds did the farmer plant?

Answer:

3,600 seeds

5. Harry can type 50 words in a minute. How many words can he type in 5 hours?

Answer:

15,000 words

6. An average of 300 customers visits an amusement park each day. Each customer was charged with a \$5 entrance fee. How much entrance fee does the park collect each day on the average?

A. \$5,100

B. \$1,000

C. \$1,050

D. \$1,500

Answer:

D. \$1,500

7. $9.000 \times k = 54,000,000$. What is the value of k?

A. 6,000

B. 600

C. 60

D. 6

Answer:

A. 6,000