

5.NBT.A.2 Multiplication Patterns in Solving Word Problems

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.

- a. 30×80
- b. $80,000 \times 500$
- c. 600×15
- d. $20 \times 12,000$
- e. $8,000 \times 10$
- f. $50,000 \times 600$
- g. $40 \times 900,000$
- h. $300 \times 40,000$

Answers:

- a.
- b.
- c.
- d.
- e.
- f.
- g.
- h.

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

- a. _____ $\times 3,000 = 270,000$
- b. $120 \times$ _____ $= 360,000$
- c. _____ $\times 9,000 = 540,000$
- d. _____ $\times 700,000 = 420,000,000$
- e. _____ $\times 800 = 56,000$
- f. $5,000 \times 20,000 =$ _____
- g. _____ $\times 250 = 10,000$
- h. _____ $\times 50 = 20,000$

3. A sausage factory can produce about 60,000 sausages per week. How many sausages can be produced in 50 weeks?

Answer:

4. A concert-for-a-cause sold 75,000 tickets in each city they will perform. If the concert-for-a-cause will be held in 40 cities, how much money was collected from all the tickets that are sold?

Answer:

5. There are 20 students in a class. The class is going on an amusement park. Each student is given a ticket worth \$1,500. How much money does the whole class will spend?

Answer:

6. A box can hold 15 jars of jellies. How many jars of jellies can 1,500 boxes hold?

Answer:

7. Use the fact $73 \times 43 = 3,139$ to find out the multiplication of $7,300 \times 43,000$. Explain your method.

Answer:

8. What is the value of expression $50 \times 7,000$?

- A. 3,500,000 B. 3,500 C. 35,000 D. 350,000

Answer:

5.NBT.A.2 Multiplication Patterns in Solving Word Problems

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

Answer Key

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

- a. 30×80
- b. $80,000 \times 500$
- c. 600×15
- d. $20 \times 12,000$
- e. $8,000 \times 10$
- f. $50,000 \times 600$
- g. $40 \times 900,000$
- h. $300 \times 40,000$

Answers:

- a. 2,400
- b. 40,000,000
- c. 9,000
- d. 240,000
- e. 80,000
- f. 300,00,000
- g. 36,000,000
- h. 12,000,000

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

- a. $\underline{90} \times 3,000 = 270,000$
- b. $120 \times \underline{3,000} = 360,000$
- c. $\underline{60} \times 9,000 = 540,000$
- d. $\underline{600} \times 700,000 = 420,000,000$
- e. $\underline{70} \times 800 = 56,000$
- f. $5,000 \times 20,000 = \underline{100,000,000}$
- g. $\underline{40} \times 250 = 10,000$
- h. $\underline{400} \times 50 = 20,000$

3. A sausage factory can produce about 60,000 sausages per week. How many sausages can be produced in 50 weeks?

Answer:
3,000,000 sausages

4. A concert-for-a-cause sold 75,000 tickets in each city they will perform. If the concert-for-a-cause will be held in 40 cities, how much money was collected from all the tickets that are sold?

Answer:
\$3,000,000

5. There are 20 students in a class. The class is going on an amusement park. Each student is given a ticket worth \$1,500. How much money does the whole class will spend?

Answer:
\$30,000

6. A box can hold 15 jars of jellies. How many jars of jellies can 1,500 boxes hold?

Answer:
22,500 boxes

7. Use the fact $73 \times 43 = 3,139$ to find out the multiplication of $7,300 \times 43,000$. Explain your method.

Answer:
313,900,000; I just added five zeros – two from 7,300 and three from 43,000 – to 3,139.

8. What is the value of expression $50 \times 7,000$?

- A. 3,500,000 B. 3,500 C. 35,000 D. 350,000

Answer:
D. 350,000