

Are You Ready?

8th Grade Weeks

Review

Example 1

Find $6 \cdot 3 \cdot 6 \cdot 3 \cdot 6$.

$$6 \cdot 3 \cdot 6 \cdot 3 \cdot 6$$

$$= 3 \cdot 3 \cdot 6 \cdot 6 \cdot 6 \quad \text{Commutative Property}$$

$$= (3 \cdot 3) \cdot (6 \cdot 6 \cdot 6) \quad \text{Associative Property}$$

$$= 9 \cdot 216 \quad \text{Multiply.}$$

$$= 1,944 \quad \text{Simplify.}$$

Example 2

Find $(-4)(-4)(-4)(-4)$.

$$(-4)(-4)(-4)(-4) = 256 \quad \text{Multiply.}$$

Exercises

Find each product.

1. $9 \cdot 9 \cdot 9$

1. _____

2. $(-6)(-2)(-2)(-6)$

2. _____

3. $7 \cdot 4 \cdot 7 \cdot 4 \cdot 4$

3. _____

4. $8 \cdot 3 \cdot 8 \cdot 8 \cdot 3$

4. _____

5. $5 \cdot 5 \cdot 5$

5. _____

6. $(-3)(9)(-3)(9)(-3)(-3)$

6. _____

7. $2 \cdot 5 \cdot 2 \cdot 5 \cdot 2$

7. _____

8. $(-4)(6)(-4)(6)$

8. _____

9. **DOGHOUSE** The doghouse at the local kennel is about $2 \times 4 \times 3 \times 3 \times 4 \times 2$ square feet. About how many square feet is the doghouse?

9. _____

10. **SALES** A furniture store sold $9 \cdot 5 \cdot 9 \cdot 5 \cdot 5$ dollars worth of furniture during a one-day sale. How many dollars was the furniture?

10. _____

Are You Ready?

Practice

Find each product.

1. $7 \cdot 7 \cdot 7$

2. $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

3. $(-6)(-5)(-5)(-6)(-5)$

4. $3 \cdot 3 \cdot 4 \cdot 4 \cdot 4$

5. $2 \cdot 9 \cdot 2 \cdot 9 \cdot 9$

6. **CALLS** A call center received $9 \cdot 3 \cdot 3 \cdot 9 \cdot 3$ calls during a campaign season. How many calls did the call center receive?

7. **RECREATION** The new town recreation center is about $7 \cdot 5 \cdot 7 \cdot 5 \cdot 5$ square feet. About how many square feet are in the recreation center?

Find the prime factorization of each number.

8. -96

9. 42

10. 144

11. 17

12. 54

13. -110

14. 16

15. 156

16. **PUMPKINS** The table shows the weight of the winning pumpkins in a contest at the state fair. Find the prime factorization of each weight.

Pumpkin	Weight (lb)
Mr. Smith's	112
Ms. Gonzalez's	98
Mrs. Johnson's	83
Mr. Cyzdin's	72

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

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Are You Ready?

Apply

1. DISTANCE The distance from Eli's house to his grandparents' house is $4 \cdot 3 \cdot 4 \cdot 3 \cdot 3$ miles. How many miles away is the grandparents' house?

2. TEMPERATURE The table shows the length and width of Florida at its most distant points. Find the prime factorization of each number.

Measurement	Distance (mi)
Length	500
Width	160

3. DOGS The table shows the weights of the dogs in a local dog show. Find the prime factorization of each number.

Dog	Weights (lb)
Irish Setter	68
Jack Russell Terrier	15
Great Dane	114
Beagle	28

4. HAY Mr. Day feeds the cows on his farm $2 \cdot 7 \cdot 5 \cdot 5 \cdot 5$ pounds of hay per week. How many pounds of hay do they eat per week?

5. NURSERY A nursery owner wants to build a new greenhouse that will have $5 \cdot 2 \cdot 5 \cdot 5 \cdot 5$ square feet. How many square feet is the greenhouse?

6. FUNDRAISER The table shows the amount of money each student raised for the school fundraiser. Find the prime factorization of each number.

Student	Money Raised
Dorsey	\$125
Danica	\$88
Jazzra	\$96
Allen	\$150

Khan Academy Notes

Unit _____

Name _____

Date _____

Topic _____

Questions you may have????????????????

Practice Questions. Write the question and your answer ☺

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Name: _____ Date: _____

Song or Video Note-Taking Chart

Song Name: _____

Important word, term or event	Line from song that includes word, term or event	Definition of word/term or Explanation of event
1.	↑	↑
2.	↑	↑
3.	↑	↑
4.	↑	↑
5.	↑	↑
6.	↑	↑
7.	↑	↑
8.	↑	↑
9.	↑	↑
10.	↑	↑