

Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic: Evaluate Expressions with Fractional Exponents - Worksheet 1

Evaluate the following:



1.  $(29)^{-1/2}$

2.  $(6000)^{2/3}$

3.  $(72560)^{2/4}$

4.  $(56)^{7/2}$

5.  $D^{-3/2} \cdot D^{1/2}$ , when  $D=5$

6. Evaluate  $-a \cdot a^{1/3}$ , when  $a=20$

7.  $C^{3/2} \cdot C^{1/2}$ , when  $c=6$

8. Evaluate  $-(1/m)^{-5/4}$ , when  $m=8$

9. Evaluate  $-a \cdot a^{1/2}$ , when  $a=30$

10.  $C^{2/3} \cdot C^{1/3}$ , when  $c=50$



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Evaluate Expressions with Fractional Exponents - Worksheet 2

Evaluate the following:

1.  $(15)^{-1/2}$

2.  $(4000)^{5/3}$

3.  $(65270)^{2/3}$

4.  $(47)^{6/2}$

5.  $K^{3/2} \cdot K^{1/2}$ , when  $K=7$

6. Evaluate  $-b \cdot b^{1/3}$ , when  $b=15$

7.  $A^{3/2} \cdot A^{1/2}$ , when  $A=8$

8. Evaluate  $-(1/n)^{-6/3}$ , when  $n=6$

9. Evaluate  $-a \cdot a^{3/2}$ , when  $a=20$

10.  $c^{5/3} \cdot c^{2/3}$ , when  $c=40$



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Evaluate Expressions with Fractional Exponents - Worksheet 3

Evaluate the following:

1.  $(10)^{-1/2}$

2.  $(5000)^{5/3}$

3.  $(55000)^{2/3}$

4.  $(52)^{6/2}$

5.  $J^{3/2} \cdot J^{1/2}$ , when  $J=5$

6. Evaluate  $-d \cdot d^{1/3}$ , when  $d=16$

7.  $A^{3/2} \cdot A^{1/2}$ , when  $A=8$

8. Evaluate  $-(1/n)^{-6/3}$ , when  $n=6$

9. Evaluate  $-e \cdot e^{3/2}$ , when  $e=14$

10.  $r^{5/3} \cdot r^{2/3}$ , when  $r=55$



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Evaluate Expressions with Fractional Exponents - Worksheet 4

Evaluate the following:

1.  $(25)^{-1/2}$

2.  $(2500)^{2/3}$

3.  $(70000)^{2/3}$

4.  $(85)^{3/2}$

5.  $y^{1/2} \cdot y^{1/2}$ , when  $y=8$

6. Evaluate  $-w \cdot w^{1/2}$ , when  $w=20$

7.  $F^{2/2} \cdot f^{1/2}$ , when  $f=8$

8. Evaluate  $-(1/t)^{-6/3}$ , when  $t=12$

9. Evaluate  $-q \cdot q^{3/2}$ , when  $q=7$

10.  $a^{5/2} \cdot a^{2/3}$ , when  $a=30$



Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Evaluate Expressions with Fractional Exponents - Worksheet 5

Evaluate the following:

1.  $(78)^{-1/2}$

2.  $(5520)^{2/3}$

3.  $(8000)^{2/3}$

4.  $(45)^{3/2}$

5.  $h^{1/2} \cdot h^{1/2}$ , when  $h=12$

6. Evaluate  $-a \cdot a^{1/2}$ , when  $a=45$

7.  $X^{3/2} \cdot X^{1/2}$ , when  $x=7$

8. Evaluate  $-(1/v)^{-5/3}$ , when  $v=15$

9. Evaluate  $-t \cdot t^{3/2}$ , when  $t=13$

10.  $b^{5/2} \cdot b^{2/3}$ , when  $b=25$

