Math 10

Lesson 1–7 Answers

**Lesson Questions**

**Question 1**



**Question 2**



**Question 3**

**Assignment**

1. a)  d) 

2. a) 16 and  b) 16 and 

3. 

4. a)  c) 

5. a)  b)  c) 

d)  e)  f) 

6. a)  b) 

c)  d) 

7. There are several answers for each question.

a) 3-2 b) or 5-1 c) or 4-1 d) 

8. $2651.56

9.

a)  b) 

c)  d) 

e)  f) 

10.

 

11. $1266.57

12.



13. 5-2; 

14.

a) The numbers on the left are divided by 2 each time. The exponents in the powers on the right decrease by 1 each time.

b) 16 = 24

8 = 23

4 = 22

2 = 21

1 = 20







c) Note that and 8 = 23 . Therefore . By extension .

15. divide 33 by 3-5

 ; 6561 times greater

16. a) x > 0 b) x< 0 c) x = 0

17. If the base is greater than 1 then the value of the power will be less than 1. For example, 2-2 = 1/4. However, if the base is between 0 and 1, the power will be greater than 1. For example .

18.



19.

a) 14 mg/mL

b) 8 h