

Math 7 - Chapter 1 & 2 Semester Review Worksheet

1. The table shows quiz marks out of 50 in each subject for *Avarbuch* and *Bainard*. What is the difference between *Avarbuch*'s marks in Mathematics and English?

Name	English	Mathematics
<i>Avarbuch</i>	24	44
<i>Bainard</i>	21	38

2. A magician has 13 ducks. He makes each duck lay 4 eggs. How many eggs are there in all?
3. Define square root.
4. What does a "square of a number" mean? Give an example.
5. Write down the definition of Distributive Property. Give an example.
6. Write 6^5 as a product of the same factor.
7. Write $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8$ in exponential form.
8. Write in exponential form: $(-6)(-6)(-6)(-6)(-6)$

Evaluate for problems 9 - 12.

9. 2^3
10. 7^1
11. 1^4
12. 8^0

Evaluate each of the following expressions in problems 13-17.

13. $81 - 6^2 \div 3$
14. $65 - 12 \times 2 \div 4 + 6$
15. $[(-5 - 8 \div 4) + 4]^2$
16. $12 + 1^4 \times 2$
17. $[(4 - 6 \div 2) - 5]^2$

Evaluate each expression for the given value of the variable for problems 18-21.

18. $[9(n - 2) + 2]$ for $n = 3$
19. $-2x^3$ if $x = -2$
20. $\frac{a + b}{(b - c)}$ for $a = 15$, $b = -6$, and $c = -3$
21. $\frac{15}{m} + 8x$ for $m = 5$ and $x = 2$.

Translate each phrase into a numerical or an algebraic expression for problems 22-24.

22. sixteen less than eight
23. the quotient of a number and nine, minus three
24. four inches less than Kimi
25. A square kitchen has a tiled floor with 81 tiles. How many tiles are along the edge?
26. Use the Distributive Property to write $5(x - 4)$ as an equivalent expression.
27. On the same day, a thermometer registered -5°F in Duluth and -3°F in St. Paul. How much warmer was St. Paul than Duluth?
28. A turtle descends below the surface of a lake 8 inches per second for 5 seconds. What is its final depth?
29. What value of y makes $\frac{-126}{6} = y$ a true sentence?
30. Find $-26 + (-4) + 16 + (-10) + 12$
31. Find the product of 3, -5, -1 and -2.
32. What integer multiplied to -4 gives a product of 36?