

DO NOW

Simplify the following:

1) $3.36 + 5 + 2.6$

2) $3.2 - 1.63$

3) 3.12×0.7

1.1

Evaluate Expressions & Use Exponents

Evaluating

Evaluate the expression when $n=3$.

a. $13 \cdot n$

b. $\frac{9}{n}$

c. $n - 1$

On Your Own...

Evaluate the expression when $y = 2$

1) $6y$

3) $y + 4$

2) $\frac{8}{y}$

4) $11 - y$

Problem Solving...

MOVIES

The total cost of seeing a movie at a theater can be represented by the expression $a + r$ where a is the cost (in dollars) of admission and r is the cost (in dollars) of refreshments. Suppose you pay \$7.50 for admission and \$7.25 for refreshments. Find the total cost.

Powers and Exponents

Write the power in words and as a product.

Power	Words	Product
a) 7^1		
b) 5^2		
c) $\left(\frac{1}{2}\right)^3$		
d) z^5		

5. WHAT IF?

In Example 2, suppose you go back to the theater with a friend to see an afternoon movie. You pay for both admissions. Your total cost (in dollars) can be represented by the expression $2a$. If each admission costs \$4.75, what is your total cost?

On Your Own...

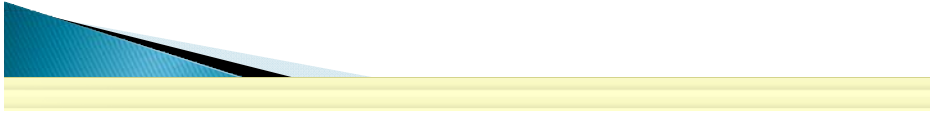
Write the power in words and as a product.

- 6) 9^5
- 7) 2^8
- 8) n^4

Evaluating Powers

Evaluate the expression.

a) x^4 when $x = 2$ b) n^3 when $n = 1.5$



Evaluate the expression.

9. x^3 when $x = 8$

10. k^2 when $k = 2.5$

11. d^4 when $d = \frac{1}{3}$

