

Lesson 1: Reviewing Exponents

- Let's review exponents.

1.1: Reviewing Exponents

Complete the table.

expanded form	exponential form
$2 \cdot 2 \cdot 2$	2^3
$3 \cdot 3 \cdot 3 \cdot 3$	
	5^2
$x \cdot x \cdot x \cdot x \cdot x \cdot x \cdot x$	
	y^3
	$(x \cdot y)^2$

1.2: Saving Money

Clare has a summer job. She wants to save money to spend on the family vacation at the end of summer. She is going to save \$5 per week for each of the 10 weeks she is working.

Tyler also has a summer job and he, too, would like to save money to spend on the family vacation. He is going to start by saving \$2 the first and second weeks and double the amount he saves each of the other weeks he is working (\$4 the third week, \$8 the fourth week, and so on).

Complete the table showing how much money each of them will have at the end of each week for the 10 weeks.

week	1	2	3	4	5	6	7	8	9	10	x
Clare	5	10	15								
Tyler	2	4	8								

1.3: Identifying Equivalent Expressions

Choose an expression from List A and match it with an equivalent expression from List B and from List C.

- For each match that you find, explain to your partner how you know it's a match.
- For each match that your partner finds, listen carefully to their explanation. If you disagree, discuss your thinking and work to reach an agreement.
- Switch roles so that your partner chooses a different expression from List A and matches it with an equivalent expression from List B and from List C.

List A	List B	List C
$8 \cdot 8 \cdot 8$	10^3	18
$9 \cdot 27 \cdot 3$	$6 \cdot 3$	$\frac{1}{32}$
$10 \cdot 100$	$\left(\frac{1}{2}\right)^5$	512
$\frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{2}$	$3^2 \cdot 3^4$	729
$3 + 3 + 3 + 3 + 3 + 3$	$2^3 \cdot 4^3$	1,000