

State of Texas Assessments of Academic Readiness

#### Algebra I

#### **STAAR Alternate 2**

# Administered April 2023 RELEASED

### ALGEBRA I

Input	Process	Output
1	$1 \times 4 = 1 \times 4^1$	4
2	$1 \times 4 \times 4 = 1 \times 4^2$	16
3	$1 \times 4 \times 4 \times 4 = 1 \times 4^3$	64

Input	Process	Output
1	$1 \times 4 = 1 \times 4^1$	4
2	$1 \times 4 \times 4 = 1 \times 4^2$	16
3	$1 \times 4 \times 4 \times 4 = 1 \times 4^3$	64

4	$4 \times 4 = 4 \times 4$	16
---	---------------------------	----

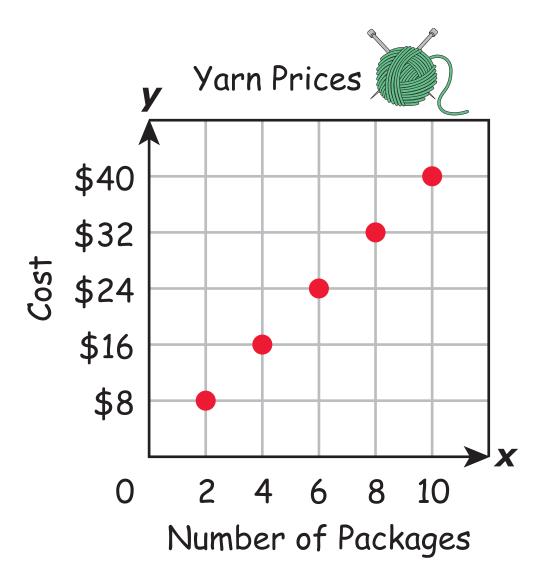
$$4 | 1 \times 4 \times 4 \times 4 \times 4 = 1 \times 4^{4} | 256$$

Week	Process	Length (inches)
1	$8 \times 2 = 8 \times 2^{1}$	16
2	$8 \times 2 \times 2 = 8 \times 2^{2}$	32
3	$8 \times 2 \times 2 \times 2 = 8 \times 2^3$	64
4		

$$8 \times 2 \times 2 \times 2 \times 2 = 8 \times 2^4$$

$$64 + 4$$

$$2 \times 2 \times 2 \times 2$$



\$18

\$20

\$22

56						
5	5	5	5	5	5	20

$$(56 - 20) \div 6 = \underline{s}$$

$$(56 + 20) \div 6 = \underline{s}$$

$$7 \times 8 \times 6 = n$$

$$n = 62$$

$$n = 90$$

$$n = 336$$

$$25 + 10 - p = 22$$

$$3,365 = 3,000 + 300 + 60 + 5$$

11a

$$6^2 = 6 \times 6$$

$$6^2 + 2 =$$

$$5^2 - (4 \times 3)$$

## Chocolate Candy



Number of Boxes	1	2	3
Pieces of Chocolate Candy	6	12	18

### Chocolate Candy



Number of Boxes	1	2	3
Pieces of Chocolate Candy	6	12	18

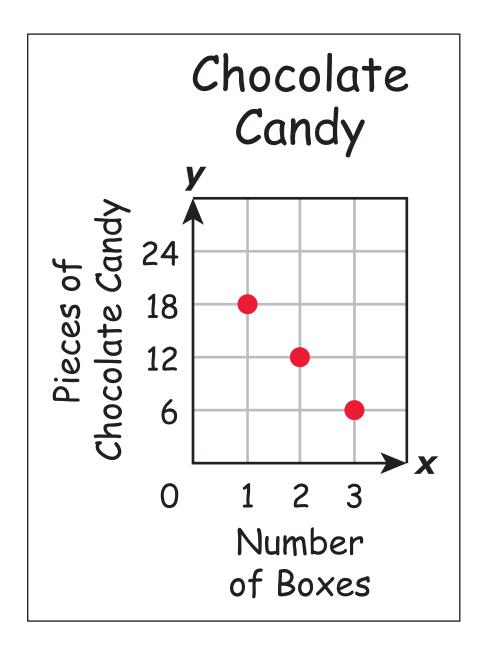
+ 5

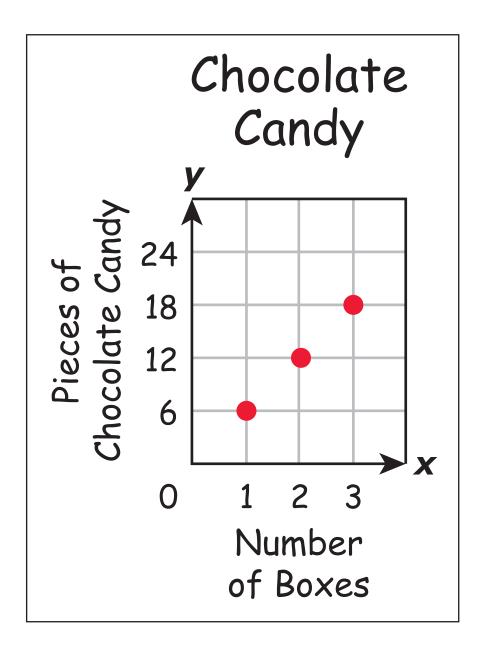
× 6

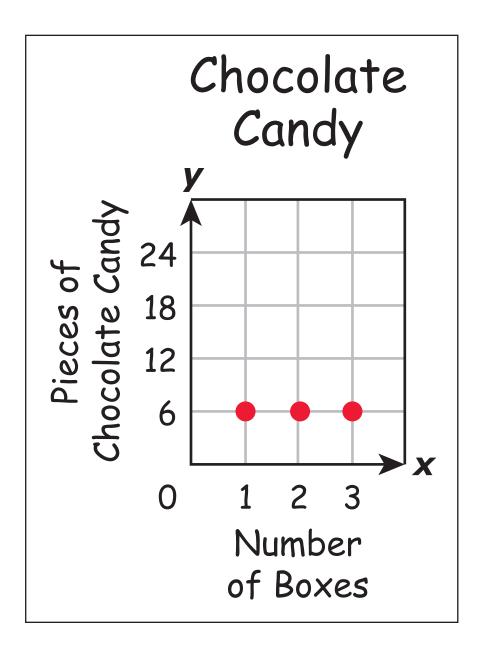
### Chocolate Candy

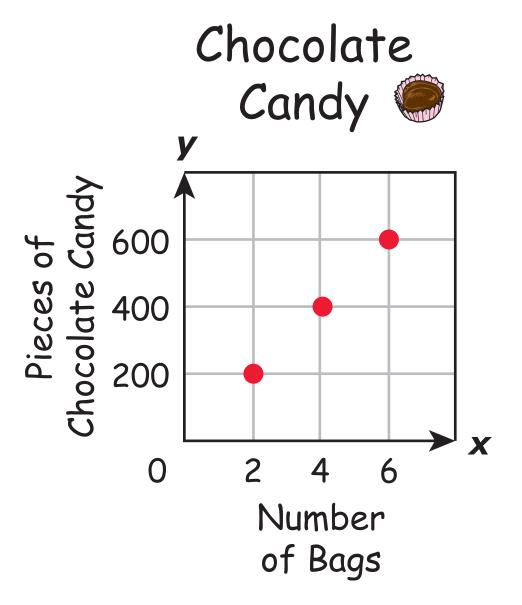


Number of Boxes	1	2	3
Pieces of Chocolate Candy	6	12	18





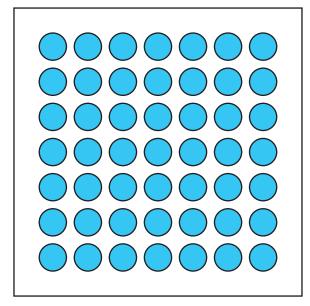




There are 500 pieces of chocolate candy in 5 bags.

There are 100 pieces of chocolate candy in 2 bags.

There are 600 pieces of chocolate candy in 3 bags.



$$7 \times 7 = 49$$

$$7^2 = 49$$

$$7 \times 7 = 49$$

$$7^2 = 49$$

$$8^2 = 64$$

Factor	Process	Solution
4	4 × 2	8
5	5 × 2	10
6	6 × 2	12

Factor	Process	Solution
4	4 + 2	6
5	5 + 2	7
6	6 + 2	8

Factor	Process	Solution
4	<b>4</b> <sup>2</sup>	16
5	<b>5</b> <sup>2</sup>	25
6	6 <sup>2</sup>	36

Factor (x)	Solution (y)
2	5
3	10
4	17
5	26

$$2x-1=y$$

$$x^2 = y$$

$$x^2 + 1 = y$$

Algebra I April 2023

**S TANABLIA RAATS** 

