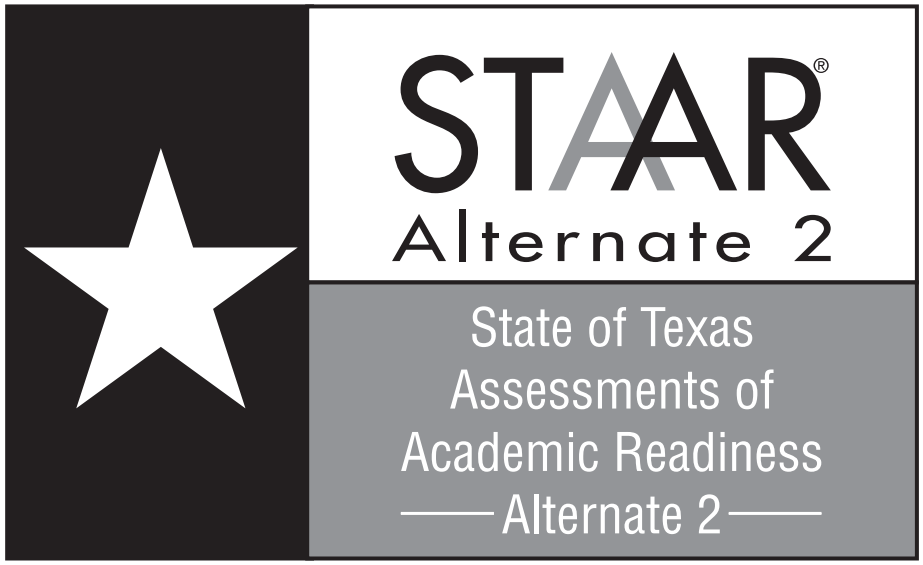

Algebra I

STAAR Alternate 2

Administered April 2019

RELEASED

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ALGEBRA I

500 + 20

520

2a

500 + 20

520

2b

$(5 \times 1) + (2 \times 1)$

$(5 \times 100) + (2 \times 10)$

3a

$$(2 + 7) \times 10$$

3b

$9 + 10$	2×70	9×10

- There are 6 boys and 2 girls in the library.
- There are 24 books for the boys and girls to read.
- Each boy and girl will get the same number of books.

$$24 \div (6 + 2)$$

4b

$24 \div 8$

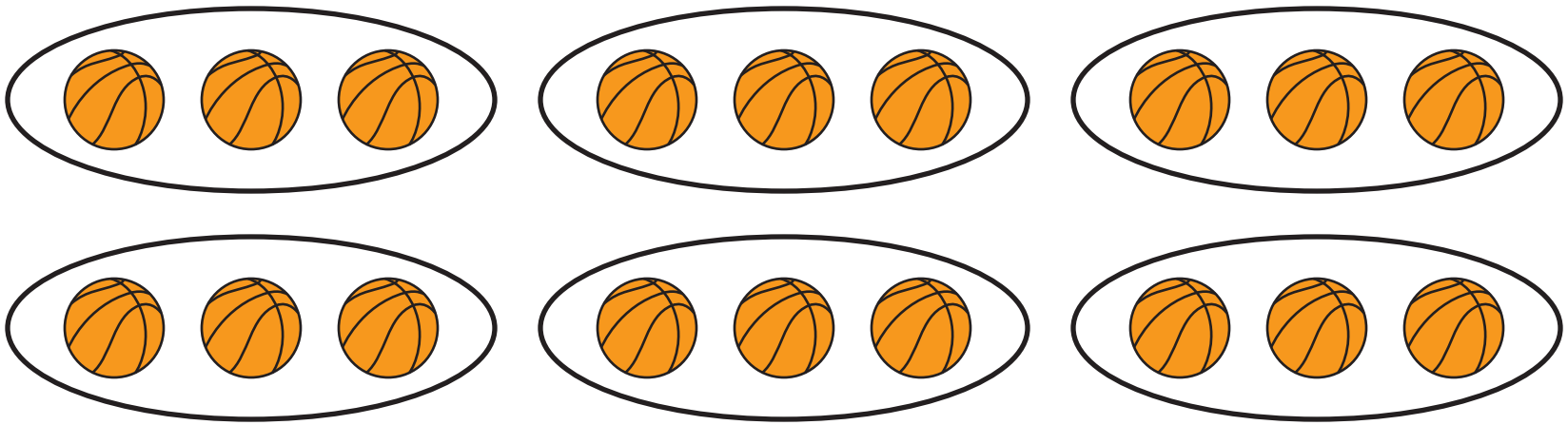
$4 + 2$

$4 \div 8$

16 - 12 = 4

16 + 12 = 28

6a



$18 + 6 = 24$

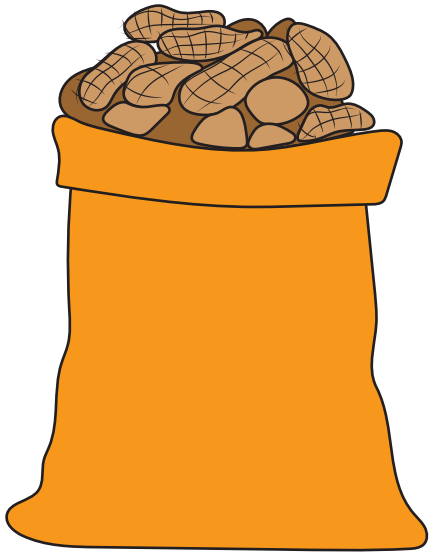
$18 \div 6 = 3$

Popcorn

$2

Peanuts

$1



Money Back

$7

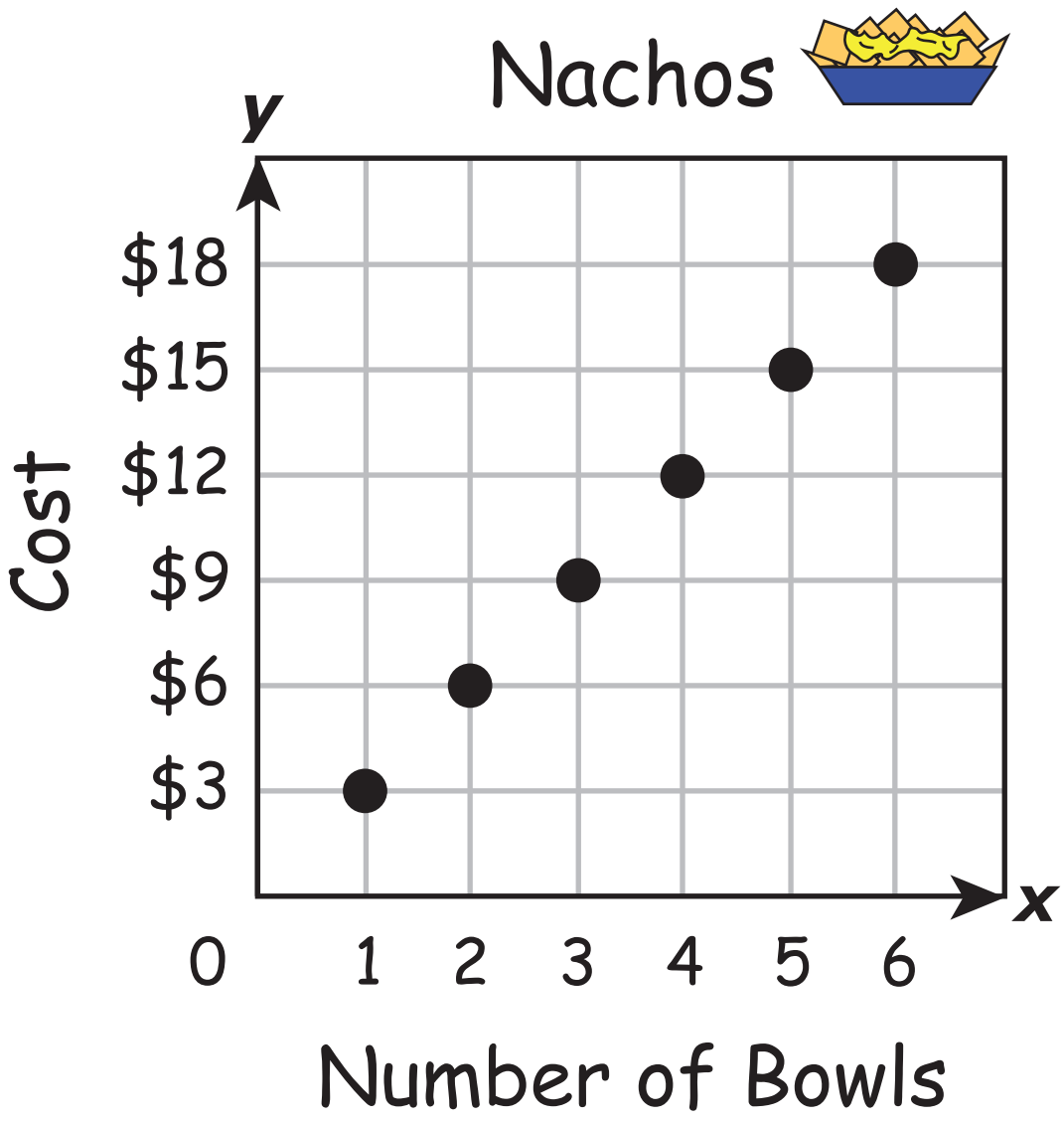
7b

$2 - $1 + $7 = ☐

$2 + $1 + $7 = ☐

$2 + $1 - $7 = ☐

8a



8b

$12	$18	$15

Factors	Solution
$8^1 = 8$	8
$8^2 = 8 \times 8$	64
$8^3 = 8 \times 8 \times 8$	512

10a

Factors	Solution
$8^1 = 8$	8
$8^2 = 8 \times 8$	64
$8^3 = 8 \times 8 \times 8$	512

10b

Factors	Solution
$3^1 = 3$	3
$3^2 = 3 \times 3$	9
$3^3 = 3 \times 3 \times 3$	27

Factors	Solution
$3^1 = 3 \times 1$	3
$3^2 = 3 \times 2$	6
$3^3 = 3 \times 3$	9

11a

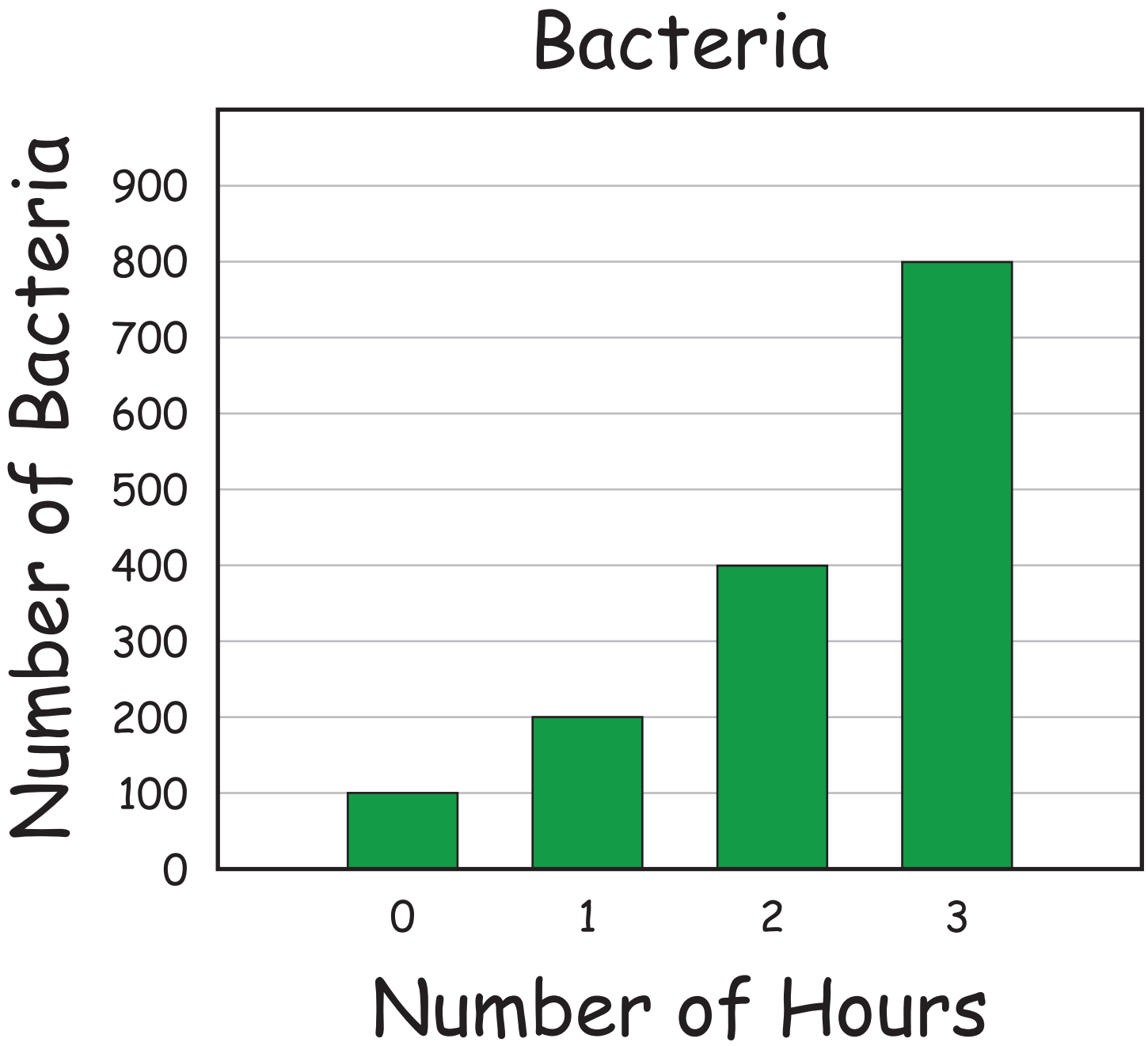
Factors	Solution
$4^1 = 4$	4
$4^2 =$ ☐	16
$4^3 = 4 \times 4 \times 4$	64
$4^4 = 4 \times 4 \times 4 \times 4$	256

2×2

4×2

4×4

12a


Bacteria
Number of Bacteria
900
800
700
600
500
400
300
200
100
0
0
1
2
3
Number of Hours

The number of bacteria —

increased by one each hour

doubled each hour

stayed the same each hour

Movie Tickets

Number of Tickets	Cost
1	$7.50
2	$15.00
3	$22.50

Movie Tickets

Number of Tickets	Cost
1	$7.50
2	$15.00
3	$22.50

Movie Tickets

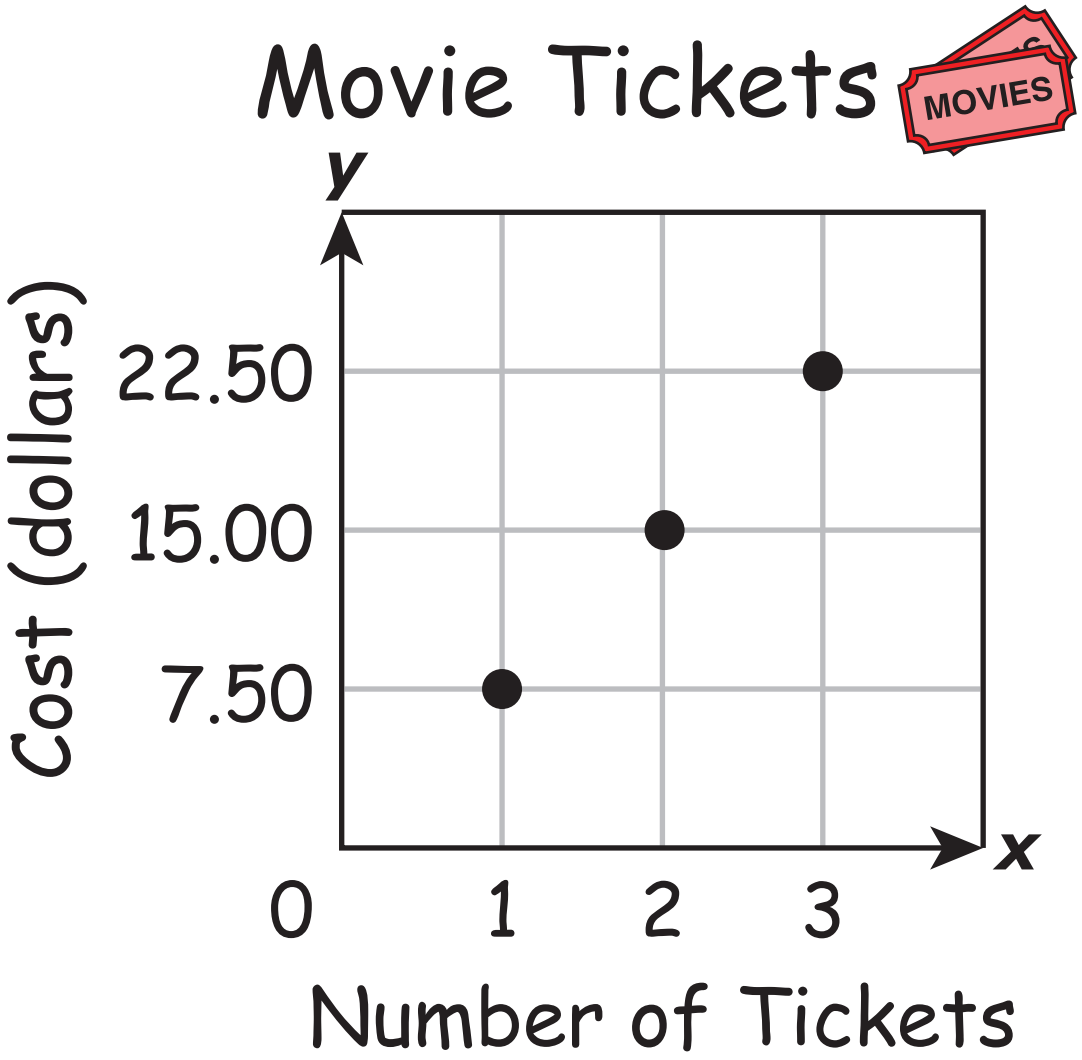
Number of Tickets	Cost
1	$7.50
2	$15.00
3	$22.50

Movie Tickets

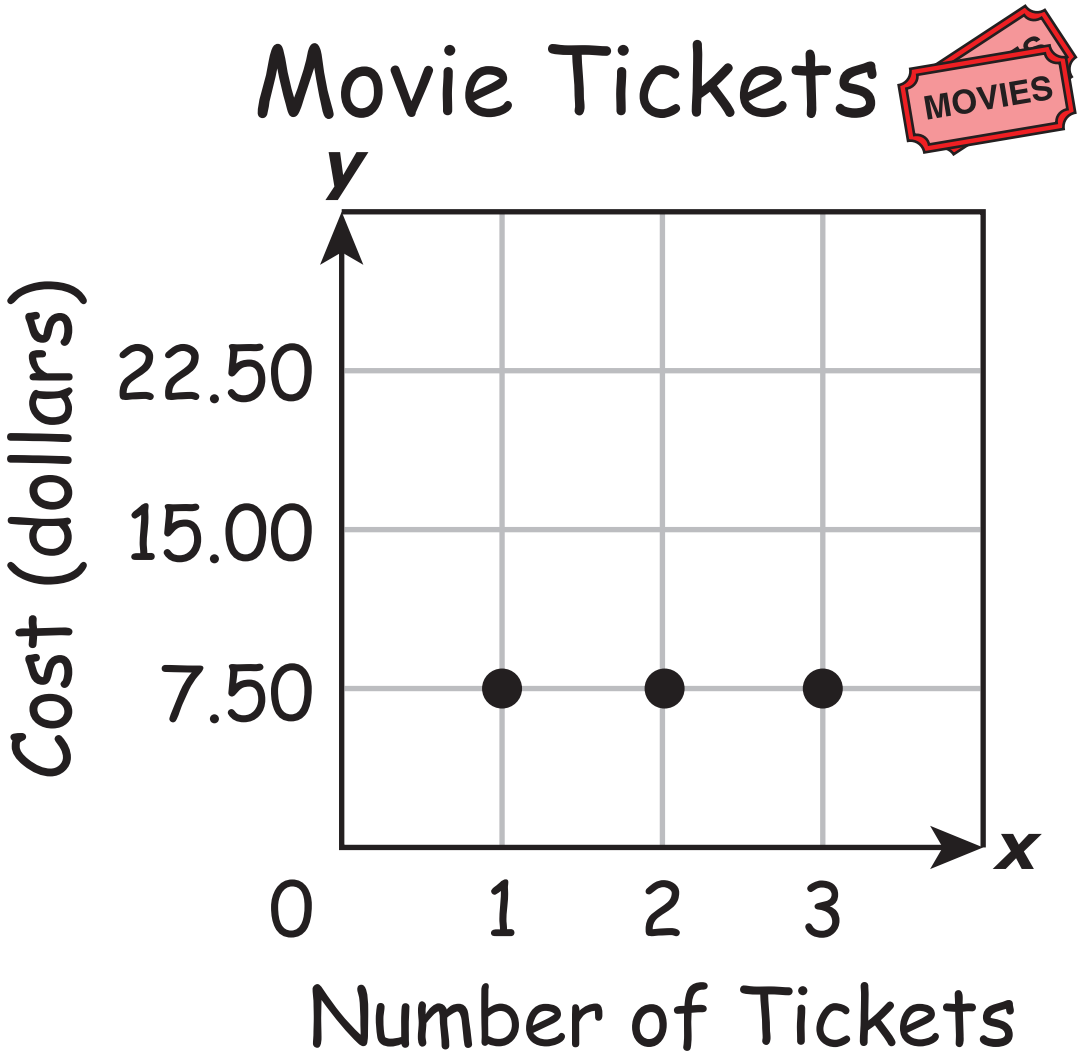
Number of Tickets	Cost
1	$2.50
2	$5.00
3	$7.50

Movie Tickets

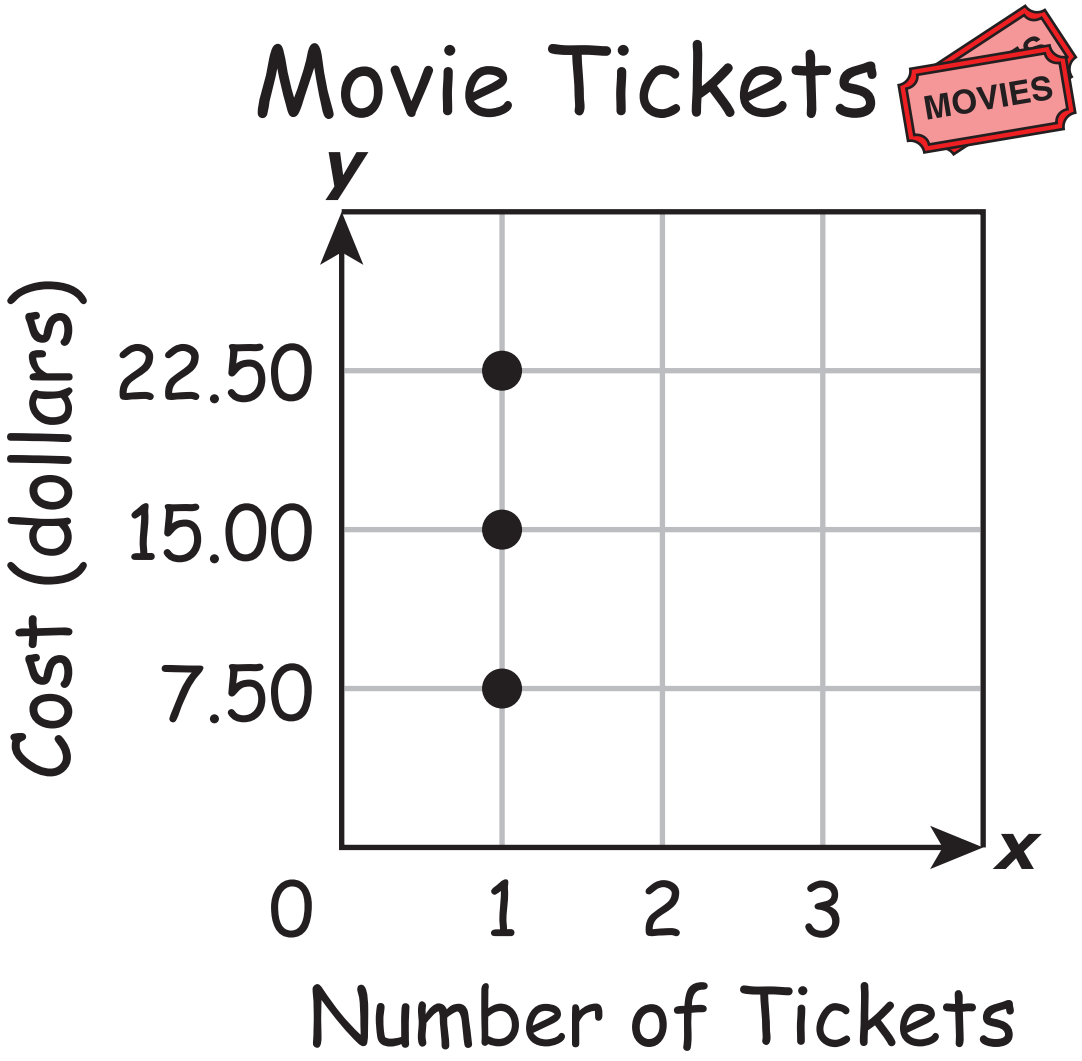
Number of Tickets	Cost
1	$7.50
2	$15.00
3	$22.50


Movie Tickets
MOVIES
y
Cost (dollars)
22.50
15.00
7.50
0
1
2
3
x
Number of Tickets

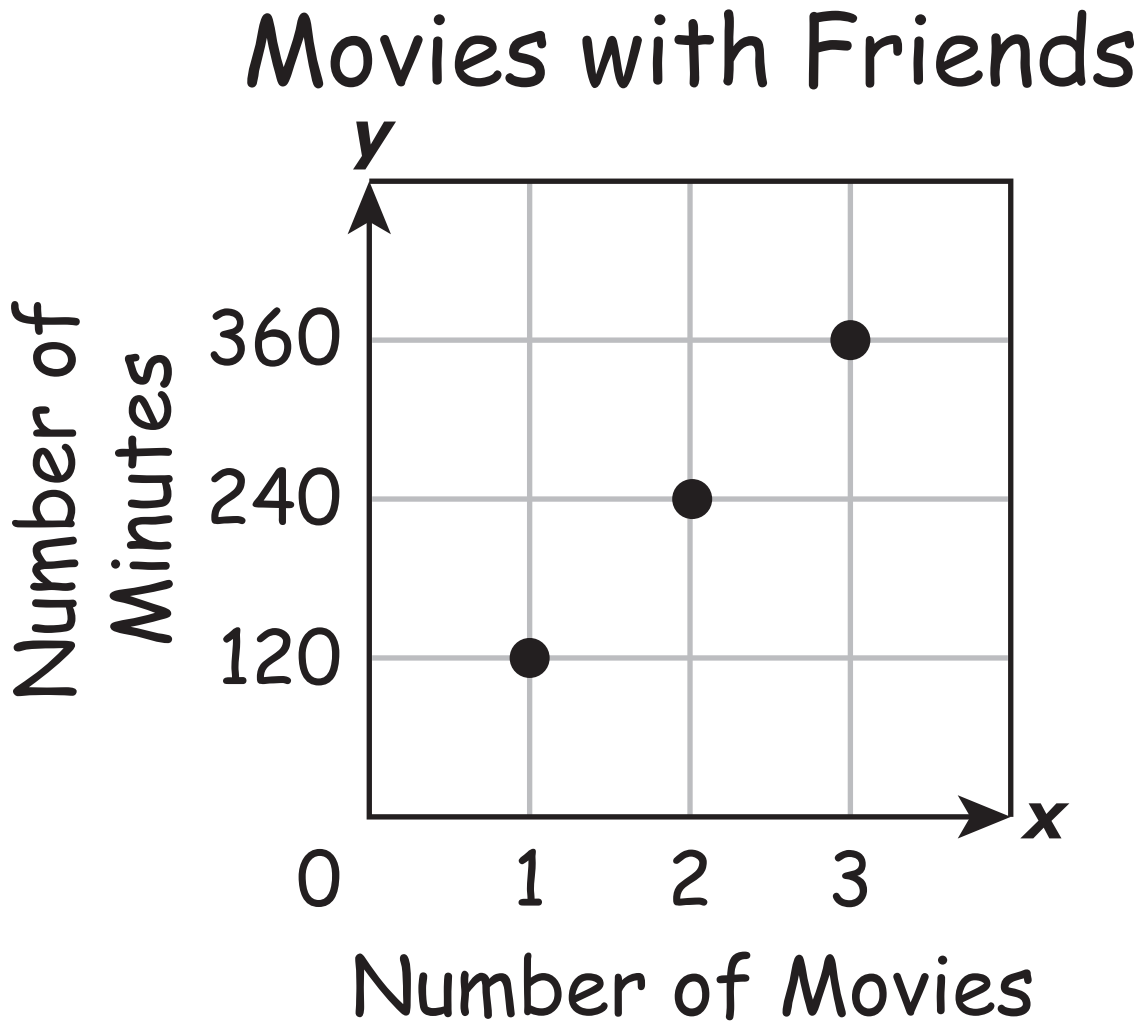
15b


Movie Tickets
MOVIES
y
Cost (dollars)
22.50
15.00
7.50
0
1
2
3
x
Number of Tickets

15b


Movie Tickets
MOVIES
y
Cost (dollars)
22.50
15.00
7.50
0
1
2
3
x
Number of Tickets

16a


Movies with Friends
y
Number of Minutes
360
240
120
0
1
2
3
x
Number of Movies

Each movie lasted 360 minutes.

Each movie lasted 3 minutes.

Each movie lasted 120 minutes.

$10 \times 10 = 100$ stars

$10^2 = 100$

$$10 \times 10 = 100$$

$$10^2 = 100$$

$11 + 10 = 21$

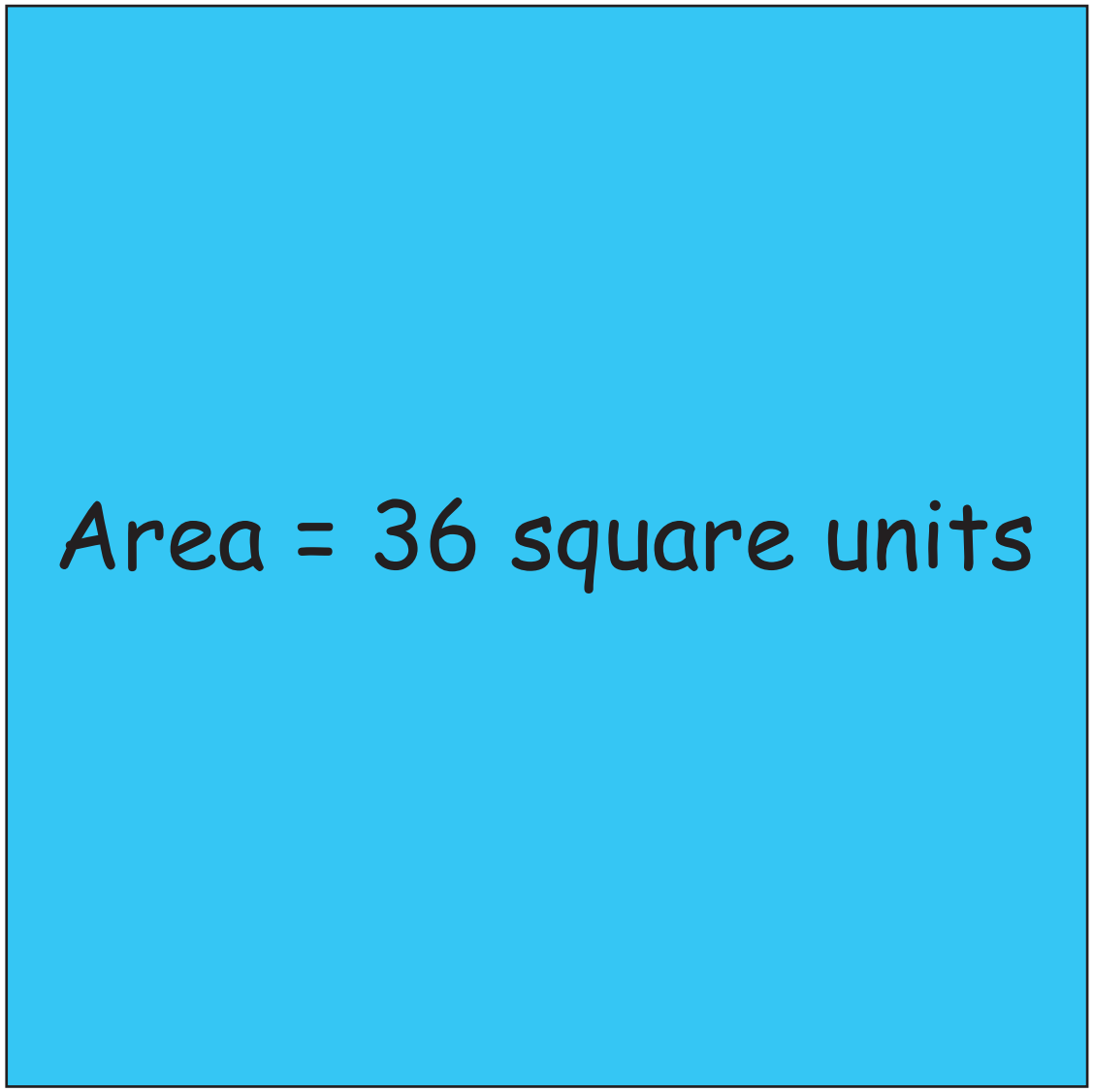
$11^2 = 121$

Factor	Process	Solution
2	2 × 1	2
3	3 × 1	3
4	4 × 1	4

Factor	Process	Solution
2	2 × 2	4
3	3 × 2	6
4	4 × 2	8

Factor	Process	Solution
2	2^2	4
3	3^2	9
4	4^2	16

Side × side = side^2 = area of a square



$18 \times 2 = 18^2 = 36$ square units

$6 \times 6 = 6^2 = 36$ square units

$9 + 9 + 9 + 9 = 9^4 = 36$ square units

STAAR ALTERNATE 2
Algebra I

April 2019

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