

Promoting Algebraic Thinking in the Elementary Years

PROFESSIONAL LEARNING HANDOUTS

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Take or Tally

Player 1

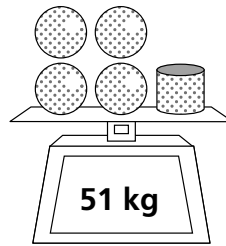
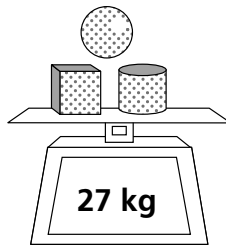
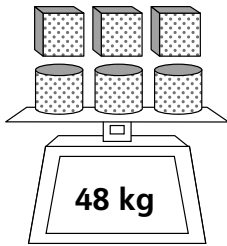
Player 2

$13 - \underline{\quad} = \underline{\quad}$	$13 - \underline{\quad} = \underline{\quad}$
$12 - \underline{\quad} = \underline{\quad}$	$12 - \underline{\quad} = \underline{\quad}$
$11 - \underline{\quad} = \underline{\quad}$	$11 - \underline{\quad} = \underline{\quad}$
$10 - \underline{\quad} = \underline{\quad}$	$10 - \underline{\quad} = \underline{\quad}$
$9 - \underline{\quad} = \underline{\quad}$	$9 - \underline{\quad} = \underline{\quad}$
$8 - \underline{\quad} = \underline{\quad}$	$8 - \underline{\quad} = \underline{\quad}$
Tally	Tally




Cube A: 1, 2, 3, 1, 2, 3

Cube B: 7, 8, 9, 10, 11, 12

5



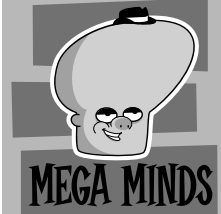
Same shapes are the same number of kilograms.

- a.  = ____ kg
- b.  = ____ kg
- c.  = ____ kg

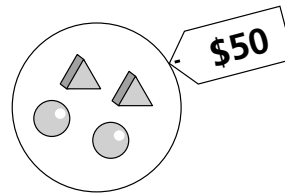
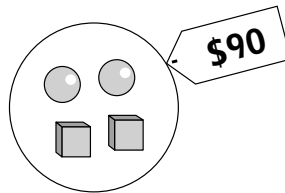
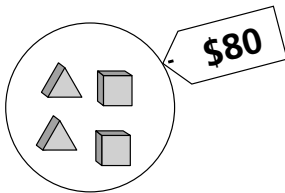
Thinking Mathematically and Problem Solving

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Red Tank



17



Same shapes are the same price.

- a.  \$ _____
- b.  \$ _____
- c.  \$ _____

Thinking Mathematically and Problem Solving

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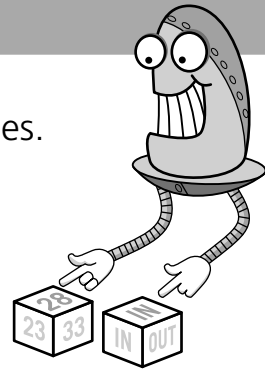
Blue Tank



Writing Input and Output Numbers

Write these numbers and words on the faces of two cubes.

Cube 1 –	23	28	33	37	44	56
Cube 2 –	IN	IN	IN	OUT	OUT	OUT



If you rolled this, you would write 28 in the top row.

Roll both cubes. Write the number from the roll of Cube 1 in the row that matches the roll of Cube 2. Then use the rule to figure out and write the number that should be in the other row.

a.

+15	IN						
	OUT						

b.

-12	IN						
	OUT						

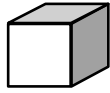
c.

+19	IN						
	OUT						

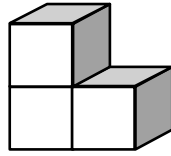
d.

-21	IN						
	OUT						

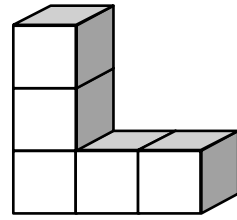




Building 1



Building 2



Building 3



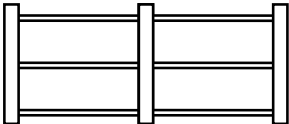
What does the 8th building look like?

How high is the building with 10 blocks along the base?

How many blocks are there altogether in that building?

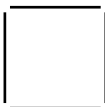


Which building has a total of ____ blocks?

Relationship patterns

	Number of posts	Number of rails
	1	0
	2	2
	3	4
	4	

How many rails will be required for 12 posts?

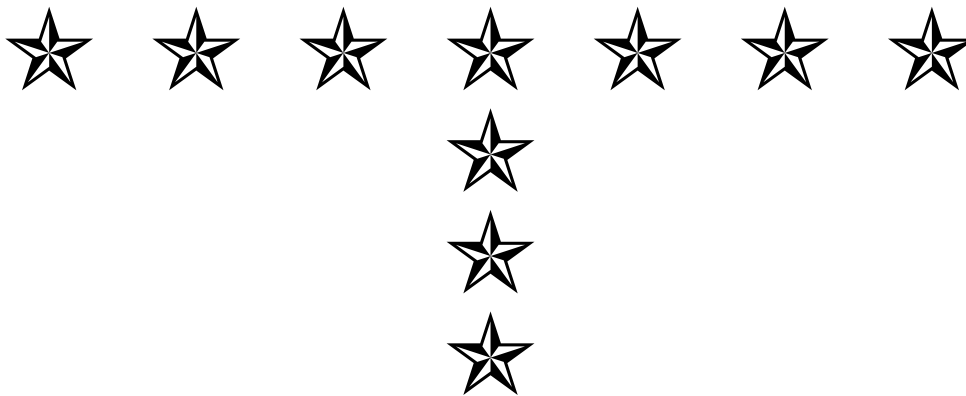
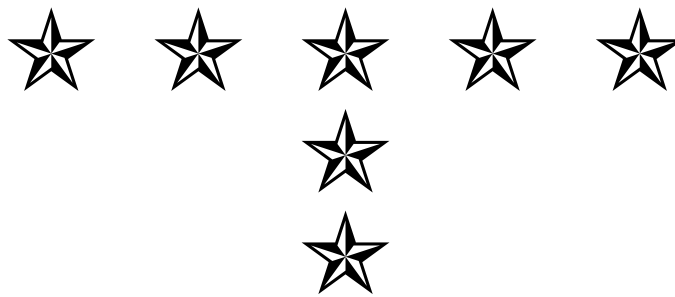
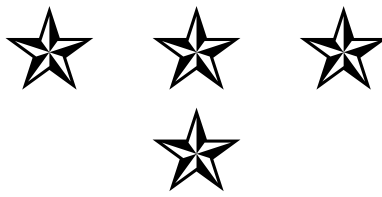
How many rails will be required for 50 posts?

	Number of squares	Number of matches
	1	4
	2	7
	3	
	4	

How many matches will be required to make 10 squares?

How many matches will be required to make 50 squares?

Write in words how to work out the number of matches required to make any number of squares.



How many stars are needed for the 10th “T” shape?

Feedback Form

To assist us in the preparation of future presentations, we would appreciate you taking a moment to answer this questionnaire.
Thank you.

1. How well did the content match the session title and abstract?

Poor OK Good Very Good

2. How do you rate the content in terms of its practicality and relevance to you?

Poor OK Good Very Good

3. How do you rate the presenter's ability to deliver the content clearly and in a logical flow?

Poor OK Good Very Good

4. How do you rate the presenter's ability to motivate and inspire you?

Poor OK Good Very Good

5. How do you rate the overall experience of the session/workshop?

6. Would you like to see more sessions offered by this presenter?

No Yes – please complete the information below

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