Year 3

Problem Solving Challenge 1

Name of Challenge: Addition and Subtraction

Materials Needed:
Paper

Extension Prompt: Can you check your answer using addition? (Inverse Operations)

Enabling Prompt:
Use MAB to represent the numbers.
I subtracted a number and was left with 10. What might the number be?

Challenge:

I did a subtraction question correctly on the computer, but the printer ran out of ink. Now the question looks like this:

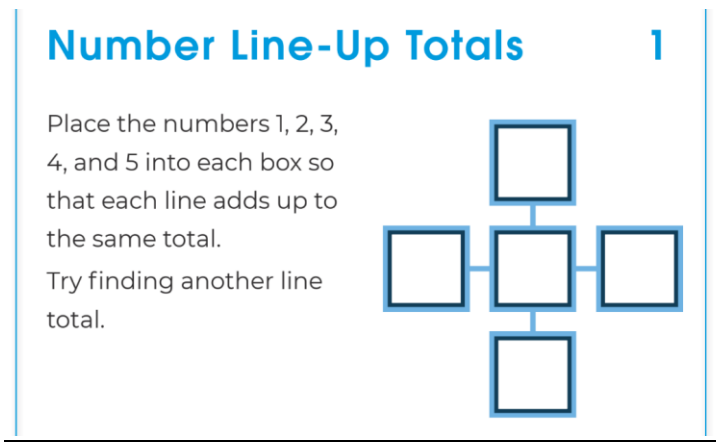
2_0 - 4 _ = _ _ 4

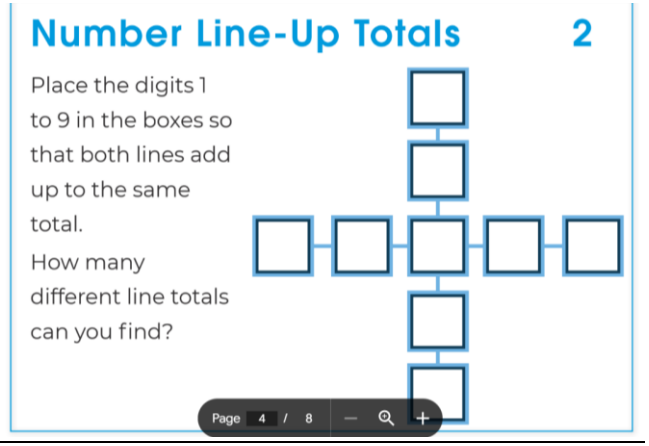
What might be the digits that did not print?

Year 3

Problem Solving Challenge 2

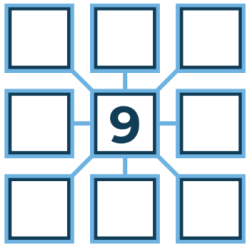
<u>Name of Challenge:</u> Number Line Up Totals
<u>Materials Needed:</u> Number Line Up Totals Cards Deck of cards
<u>Extension Prompt:</u> Card Number 6
<u>Enabling Prompt:</u> Card Number 1
<u>Challenge:</u>





Number Line-Up Totals 5

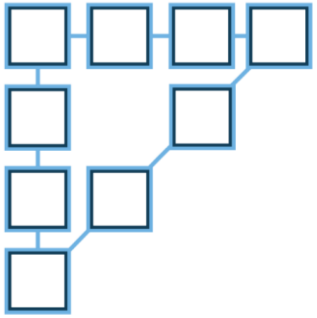
Place the digits 1 to 8 in the boxes so that each line adds up to the same total.



Number Line-Up Totals 6

Arrange the numbers 1 to 9 in the squares so that the sum of the digits along each side is the same.

List the possible line totals.



Year 3

Problem Solving Challenge 3

Name of Challenge: Design a 3D Shape!
Materials Needed: Paper Rulers Tape Unifix Nets of shapes (examples)
Extension Prompt: Can you name the properties of your 3D shape?
Enabling Prompt: Net of Rectangular Prism
Challenge: Design and make a 3D shape with paper that holds 12 Unifix blocks. You can arrange the Unifix blocks in any way you want. Please try and produce a 3D Shape that has minimal space between blocks. Use these nets as inspiration to design your own 3D shape!