



# Printables for “Bead cards (facile addition)”

KNPIG ID # A 3341.6 – ORANGE

This file contains printables for two students or a small group of students.

For each additional pair of students print 1 new activity file.

- 2 Instructional Pages - Bead Cards
- Bead Cards: Set A (Black & White) – Spatial Patterns with 15 to 26 beads.  
- 12 Bead Cards in total.
- Bead Cards: Set A (Colored) – Spatial Patterns with 15 to 26 beads.  
- 12 Bead Cards in total.

Print two sets of EITHER the black and white set OR the color set.

To print just the black & white Bead Cards print pages 4- 6.

To print just the colored Bead Cards print pages 7 - 9.

**Teacher Note:** Look for strategies that show the student is using composite strategies. For example, a student might add  $23 + 21$  with a split strategy (i.e. "20 and 20 make 40, 3 and 1 make 4 so it's 44") or a jump strategy ("23 and 20 more is 43 and 1 more is 44") or another strategy such as transformation (i.e. "I can move 1 from the 21 to the 23, so it's  $24 + 20$  which is 44"). If images can be seen through the back of the card, place cards under a screen in lieu of turning face down.

# Bead cards

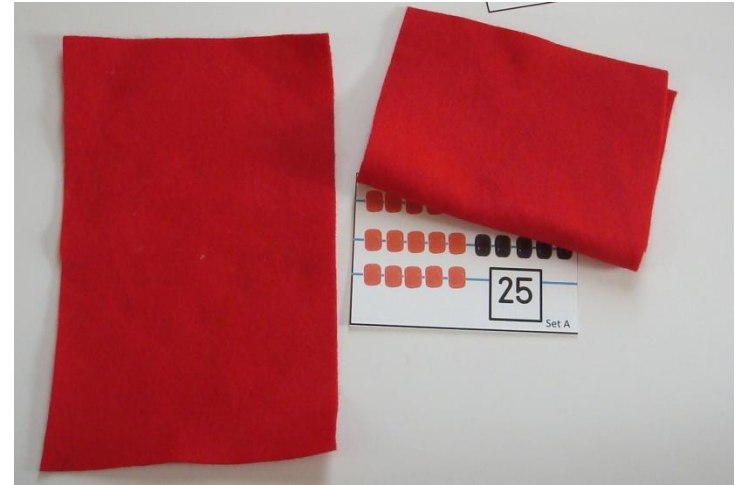
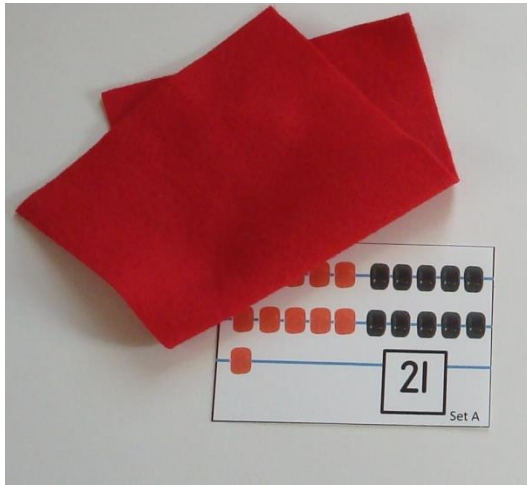
## Before play:

Print & cut apart 2 sets of Card Set A

## During a turn:

(1) Student will draw 1 card from Set A, look at the card briefly and then turn card face-down or cover the card.

(2) The student will then draw a 2nd card from Set A and will cover it after a brief glance. Student will determine the sum.



Look for evidence the student is using composite strategies.

## Composite (Non-count-by-one) strategies:

Students may choose from a variety of strategies to solve. For example, for **21 + 25** the student might do one of the following:

### Split Strategy:

$$21 = 20 + 1$$

$$25 = 20 + 5$$

$$\begin{array}{r} 20 + 20 = 40 \\ 1 + 5 = 6 \end{array} \rightarrow 46$$

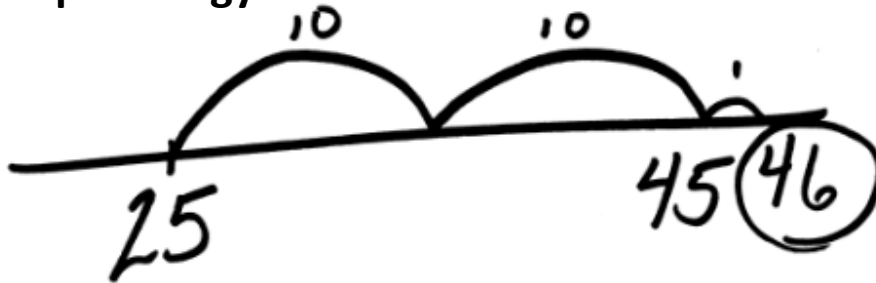
### Transformation :

“Move” 1 from the 21 to the 25, to create the equal but easier problem “20 + 26”.

Written symbolically:

$$\begin{aligned} 21 + 25 \\ &= (20 + 1) + 25 \\ &= 20 + (1 + 25) \\ &= 20 + 26 \\ &= 46 \end{aligned}$$

### Jump Strategy:



**Extend to finding the total of up to 4 cards**

**Optional Extension:** After finding the total (of 2-4 cards), determine how many more needed to make 100.

15

Set A

16

Set A

17

Set A

18

Set A

19

Set A

20

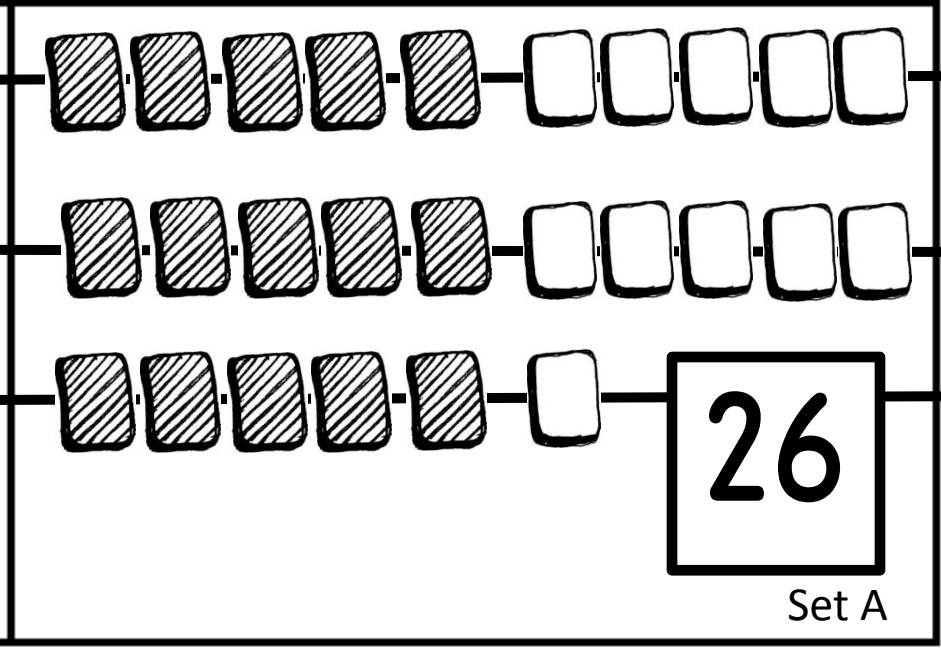
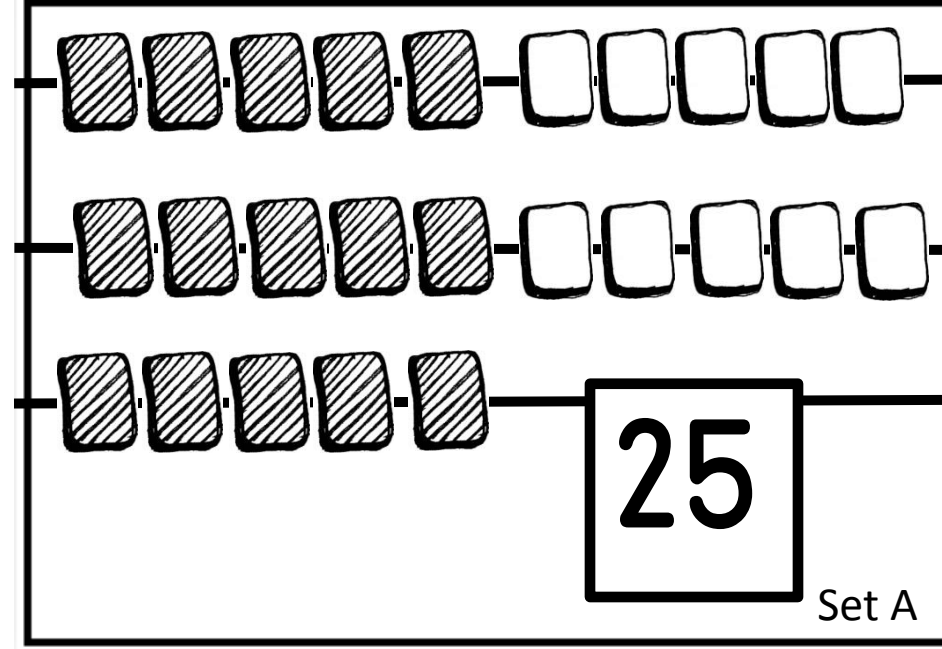
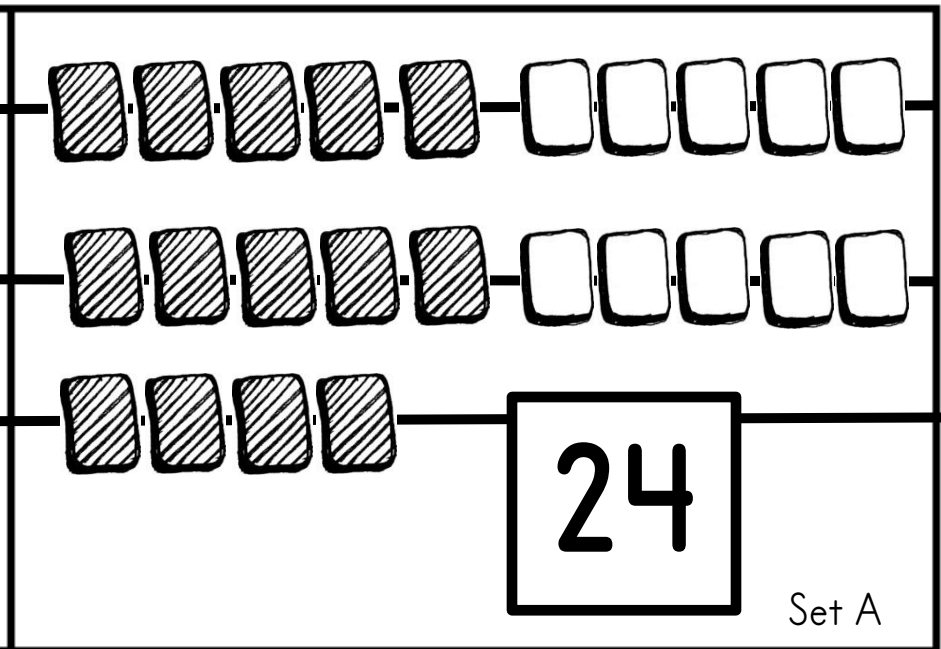
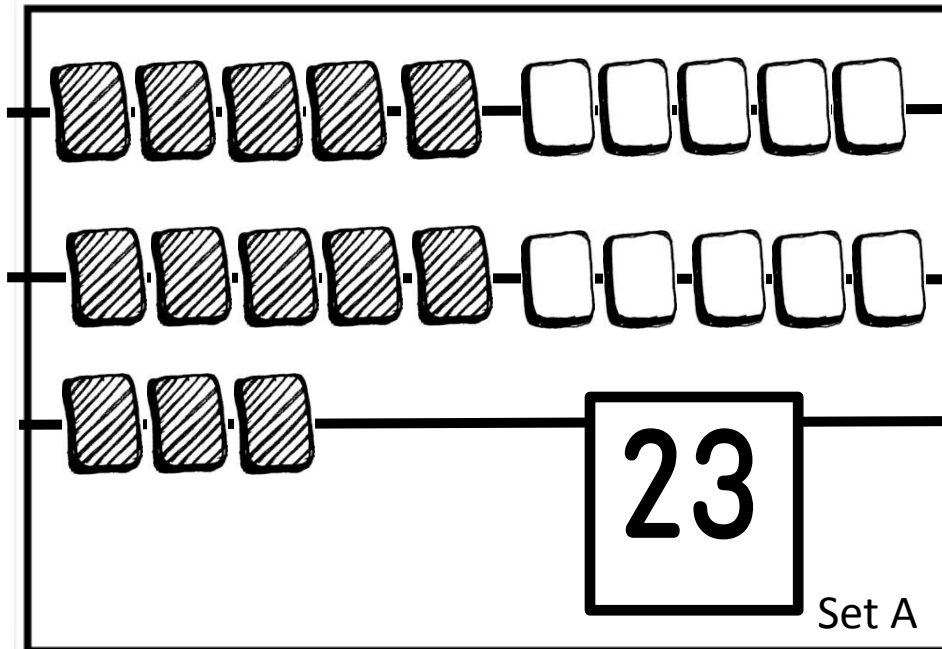
Set A

21

Set A

22

Set A



15

Set A

16

Set A

17

Set A

18

Set A

