

# Graph Score Sleuths

*Read the key or scale, then solve one or two steps.*

**GRADE 3 • 3.PS.1.e.v**

**3.PS.1.e.v** "Excerpt: Analyze data represented in pictographs and bar graphs, and communicate results orally and in writing: solve one- and two-step addition and subtraction problems using data from pictographs and bar graphs."

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## Read, Then Solve

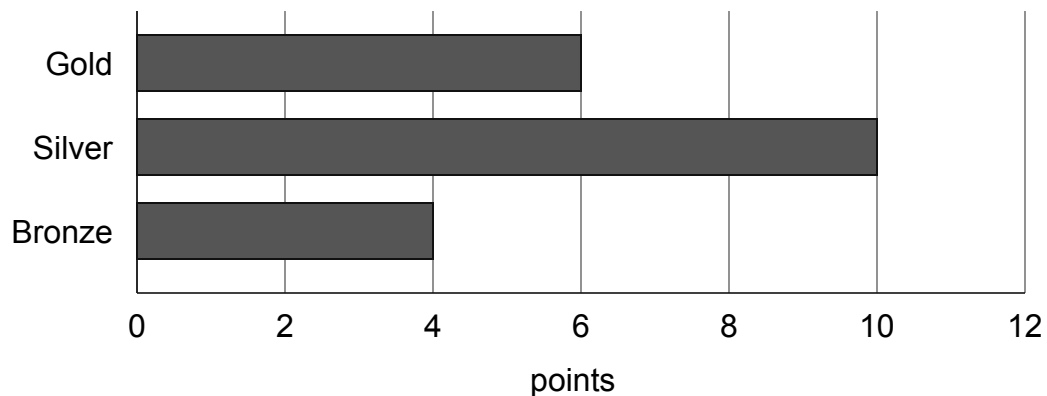
Read each count from the graph scale or pictograph key. Decide what to add or subtract. For two steps, label the first answer, then use it in the next calculation. Include units.

## Try it together

Gold and Silver combine their points, then spend 5. How many points remain?

## Reading Points

Team



Read Gold 6 and Silver 10. Add:  $6 + 10 = 16$  points. Subtract:  $16 - 5 = 11$  points. They have 11 points left.

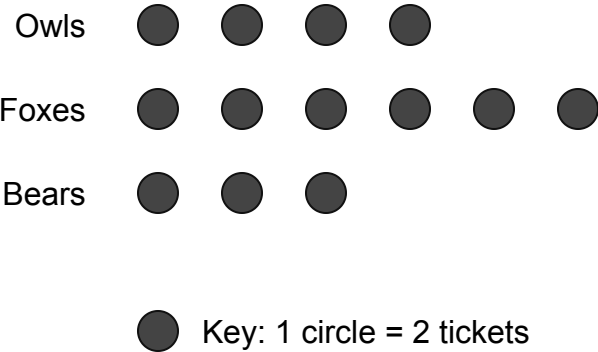
Write equations and answers. Explain your steps aloud to a partner. Reuse the named graph when a task refers back to it.

**1. Combine ticket counts**

How many tickets do Owls and Bears have altogether?

**Game Tickets**

Team / Pictures



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**2. Compare ticket counts**

Use Game Tickets. How many more tickets do Foxes have than Owls?

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**3. Use two seed groups**

Beans and Corn seeds are combined. Then 7 seeds are planted. How many are left?

**Garden Seeds**

Type

**4. Compare with a goal**

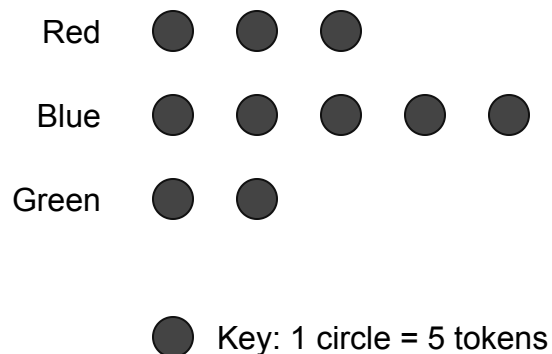
Use Garden Seeds. The goal is 30 Peas and Corn seeds together. How many more are needed?

**5. Buy a game**

Red and Green combine their tokens. They spend 18 on a game. How many remain?

**Club Tokens**

Team / Pictures

**6. Add, then compare**

Use Club Tokens. Red earns 15 more tokens. How many more tokens does Red now have than Blue?

**7. Check both steps**

Use Game Tickets. Foxes gain 5 tickets, then give 4 away. Kai says they finish with 21 tickets. Correct the two-step calculation.

**TEACHER NOTES**

Require graph-derived counts, correct operation order, equations and units. Pictograph circles represent 2 or 5 items, not one. The two steps must use the first result. Listen for oral explanations.

**TASK 1**

$8 + 6 = 14$  tickets.

**TASK 2**

$12 - 8 = 4$  tickets.

**TASK 3**

$9 + 11 = 20$  seeds;  $20 - 7 = 13$  seeds left.

**TASK 4**

$14 + 11 = 25$  seeds;  $30 - 25 = 5$  more seeds.

**TASK 5**

$15 + 10 = 25$  tokens;  $25 - 18 = 7$  tokens remain. Read the circle counts using the key before subtracting.

**TASK 6**

$15 + 15 = 30$  tokens;  $30 - 25 = 5$  more tokens. Compare Blue with Red's updated total, not its starting total.

**TASK 7**

$12 + 5 = 17$  tickets;  $17 - 4 = 13$  tickets. Kai added 4 instead of subtracting it.