

Measurement, Sorting and Data: practice solutions, Kindergarten – download the PDF

Written solutions to the chapter problems. Check each step, then correct yourself.

1 Longer or shorter?



Compare the numbers: $8 > 3$.

- a. The snake is longer.
- b. The worm is shorter.

2 Which tower is the tallest?



The green tower has 5 cubes. It reaches the highest, so it is the **tallest**. The blue tower has only 2 cubes, so it is the **shortest**.

3 Heavier or lighter?



The scale goes down on the pumpkin side. The pumpkin is **heavier**. The apple is **lighter**.

4 Sort the buttons by color



The red group has 3 buttons. The blue group has 2 buttons. The yellow group has 4 buttons.

5 Pick the right word



- a. A giraffe is **taller** than a cat (height).
- b. The 10 cube rope is **longer** (length).
- c. A rock is **heavier** than a leaf (weight).

6 Count the shapes



There are 5 circles and 3 squares. $5 + 3 = 8$. There are **8 shapes** in all.

7 Read the pet graph



Dogs have 4 circles, the longest row. Cats have 2 circles, the shortest row.

Dogs have the most. Cats have the fewest.

8 Order the ribbons



Pink is 4 cubes, green is 5 cubes and blue is 7 cubes. We have $4 < 5 < 7$.

From shortest to longest: **pink, green, blue**.

9 Paper clip measure



Take the small number from the large one: $8 - 5 = 3$.

The marker is **3 paper clips** longer than the pencil.

10 Sort the toys



Cars: 4. Blocks: 6. Dolls: 2.

The biggest group is the **blocks** (6). The smallest group is the **dolls** (2).

11 Fewest to most



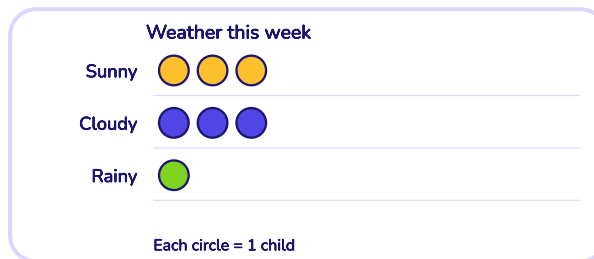
Pears: 4. Plums: 5. Apples: 6. We have $4 < 5 < 6$.

From fewest to most: **pears, plums, apples**.

12 Make a picture graph



Draw 3 circles in the sunny row, 3 in the cloudy row and 1 in the rainy row.



Rainy days happened the least: only 1.

13 True or false?



The sentence is **false**. Length and weight are different attributes. A short brick is heavier than a long feather.

14 How many more?



$$7 - 4 = 3.$$

There are **3 more** red cars than blue cars.

15 Three towers puzzle



Ana is taller than Ben, and Ben is taller than Cy. So Ana is taller than Cy too.

The tallest tower is **Ana's** and the shortest is **Cy's**.

From shortest to tallest: Cy, Ben, Ana.

16 Find the missing count



Soccer and swimming together: $4 + 6 = 10$.

Art: $15 - 10 = 5$. **5 children** chose art.

17 Toy box data



a. $5 + 4 + 3 = 12$ toys.

b. $5 - 3 = 2$ more cars than blocks.

c. Blocks (3) are fewer than balls (4).

18 Where does it start?



Stick A starts at 0 and ends at 6: $6 - 0 = 6$ cubes.

Stick B starts at 2 and ends at 7: $7 - 2 = 5$ cubes.

Stick B ends farther, but it is **not longer**. Stick A is longer by 1 cube.

19 Sort in two ways



By color: red $2 + 3 = 5$, blue $1 + 2 = 3$.

By shape: circles $2 + 2 = 4$, squares $3 + 1 = 4$.

Each time the total is 8, so no shape was lost.

20 Heavy chain



A is heavier than B, and B is heavier than C. So the order from lightest to heaviest is **C, B, A**.

No. Box C is the lightest, so it is not heavier than box A.

21

Graph detective

- a. $6 + 3 + 5 + 2 = 16$ children.
- b. $6 - 2 = 4$ more.
- c. $5 - 3 = 2$ fewer.

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