LESSON MAKER PRO

Show Your Math

Connect a picture, an equation and your words.

GRADE 2 · TEKS 2.1.D

2.1.D "communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;"

NAME _____ DATE _____

DIFFERENT WAYS, SAME AMOUNTS

A diagram can show the parts of a story. An equation uses numbers and signs for those same parts. Use words to explain how they match.

WORKED EXAMPLE

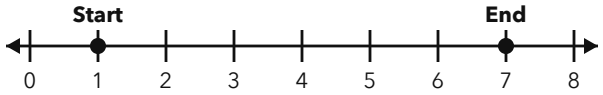
Omar has 12 shells and finds 10 more. Read the parts in the diagram. Show the total with an equation and words.

1. The two parts show 12 shells and 10 shells.
2. Add the parts: 12 + 10 = 22.
3. The whole diagram shows all 22 shells.

Answer: Omar has 22 shells altogether.

PRACTICE 4 problems

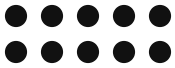
1 The car starts at 1 and moves right to 7. Write an equation. Tell how many spaces it moves.



ANSWER _____

_____

2 The picture shows Lena's balloons. Write an addition equation for the two rows. Tell the total.



ANSWER _____

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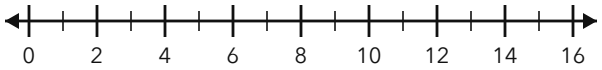
3 A pet has 14 treats and eats 6. On the line, mark 14. Count 6 spaces left and mark where you land. Write the subtraction and say what is left.



ANSWER _____

_____

4 There are 16 crayons: 9 blue and the rest green. Draw two parts for the crayons in the box. Write an equation and name the green part.

ANSWER _____

_____

APPLY IT Show your work

1 Kai has 7 tokens and earns 8. Draw a picture or diagram. Write an equation and a sentence explaining how your picture shows the total.

ANSWER _____

2 Ava has 18 stickers and gives away 5. Draw a picture or diagram. Write an equation and explain how your picture shows what is left.

ANSWER _____

CHALLENGE One step up

A puppy has 17 treats and eats 8. Draw the parts left and eaten. Write a subtraction equation and an addition equation to check. Tell how both equations match your diagram.

PRACTICE 1

The car starts at 1 and moves right to 7. Write an equation. Tell how many spaces it moves.

1 + 6 = 7. It moves 6 spaces, not 7.

PRACTICE 2

The picture shows Lena's balloons. Write an addition equation for the two rows. Tell the total.

5 + 5 = 10. Lena has 10 balloons.

APPLY IT 1

7 + 8 = 15. Kai has 15 tokens altogether.
A picture shows separate groups of 7 and 8; a tape diagram may show the two parts. The explanation connects both parts to the total.

APPLY IT 2

18 - 5 = 13. Ava has 13 stickers left.
A picture may show 18 marks with 5 crossed out; a diagram may split 18 into 5 given away and 13 left. Explain the matching parts.

CHALLENGE

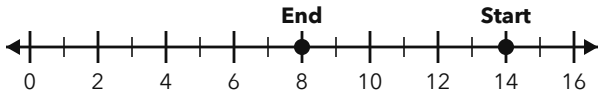
17 - 8 = 9 and 9 + 8 = 17. The diagram shows 9 left and 8 eaten as parts of 17.

Read directions aloud if helpful. Accept equivalent diagrams and equations with clear explanations. For the car, count six intervals from 1 to 7; position 7 is not a distance of seven spaces. For task 3, the key marks 14 and 8; counting six spaces left connects the marks.

PRACTICE 3

A pet has 14 treats and eats 6. On the line, mark 14. Count 6 spaces left and mark where you land. Write the subtraction and say what is left.

14 - 6 = 8. Eight treats are left.



PRACTICE 4

There are 16 crayons: 9 blue and the rest green. Draw two parts for the crayons in the box. Write an equation and name the green part.

16 - 9 = 7. The sample shows 9 shaded blue crayons and 7 unshaded green crayons; each cell is one crayon. Accept other clear diagrams of both parts.