LESSON MAKER PRO

Tile Size Switch

Measure the same length with two tile sizes.

GRADE 2 · 2.M.A.18

2.M.A.18 "Measure objects with two different units, and describe how the two measurements relate to each other and the size of the unit chosen."

NAME _____ DATE _____

THE BIG IDEA

A longer tile covers more of an object, so you need fewer tiles to measure it. A 2-inch tile is as long as two 1-inch tiles.

WORKED EXAMPLE

A toy road is 10 inches long. How many 2-inch tiles cover it?

TOY ROAD

Tile length	Tiles used
1 inch	10
2 inches	___

1. Each 2-inch tile covers the same length as two 1-inch tiles.
2. Pair the 10 1-inch tiles: 10 ÷ 2 = 5.

Answer: 5 2-inch tiles

PRACTICE 5 problems

1 A toy car is 4 inches long. How many 2-inch tiles match its length?

TOY CAR

Tile length	Tiles used
1 inch	4
2 inches	___

ANSWER _____

2 A toy boat is as long as 3 2-inch tiles. How many 1-inch tiles match its length?

TOY BOAT

Tile length	Tiles used
2 inches	3
1 inch	___

ANSWER _____

3 A crayon is as long as 8 1-inch tiles. How many 2-inch tiles match its length?

CRAYON

Tile length	Tiles used
1 inch	8
2 inches	___

ANSWER _____

4 A toy truck is as long as 6 2-inch tiles. How many 1-inch tiles match its length?

TOY TRUCK

Tile length	Tiles used
2 inches	6
1 inch	___

ANSWER _____

5 A paper crown is as long as 14 1-inch tiles. How many 2-inch tiles match its length? Why is that number smaller?

PAPER CROWN

Tile length	Tiles used
1 inch	14
2 inches	___

ANSWER _____

APPLY IT Show your work

1 Mia makes a 16-inch paper chain for her room. How many 2-inch tiles would match its length?

PAPER CHAIN

Tile length	Tiles used
1 inch	16
2 inches	___

ANSWER _____

2 Leo measures a ribbon for a gift with 9 2-inch tiles. How many 1-inch tiles would match the ribbon's length?

GIFT RIBBON

Tile length	Tiles used
2 inches	9
1 inch	___

ANSWER _____

CHALLENGE One step up

A toy train track is 20 inches long. Sam says it takes 20 2-inch tiles to match the track. Is Sam right? Tell how many tiles it takes and why.

TRAIN TRACK

Tile length	Tiles used
1 inch	20
2 inches	___

WORK SPACE AND ANSWER

ANSWER KEY

Tile Size Switch

GRADE 2 · 2.M.A.18

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A toy car is 4 inches long. How many 2-inch tiles match its length?	**2 2-inch tiles**
2	A toy boat is as long as 3 2-inch tiles. How many 1-inch tiles match its length?	**6 1-inch tiles**
3	A crayon is as long as 8 1-inch tiles. How many 2-inch tiles match its length?	**4 2-inch tiles**
4	A toy truck is as long as 6 2-inch tiles. How many 1-inch tiles match its length?	**12 1-inch tiles**
5	A paper crown is as long as 14 1-inch tiles. How many 2-inch tiles match its length? Why is that number smaller?	**7 2-inch tiles. The number is smaller because each 2-inch tile is longer.**

PART 2 · APPLY IT

1. **8 2-inch tiles** Pair the 16 inches into groups of 2. There are 8 groups.
2. **18 1-inch tiles** Each 2-inch tile matches two 1-inch tiles, so 9 groups of 2 make 18.

CHALLENGE

No. It takes 10 2-inch tiles because each tile covers 2 inches.

Accept drawings or addition facts that show each 2-inch tile matching two 1-inch tiles. For written explanations, accept any clear statement that longer tiles mean fewer tiles for the same length.