

Lesson 4: Interpret Division Expressions

- Let's make sense of division expressions.

Warm-up: Number Talk: More or Less?

Find the value of each expression mentally.

- $500 - 475$

- $504 - 475$

- $512 - 475$

- $512 - 449$

4.1: Spinning Tops

Spinning tops are popular around the world. Here are spinning tops from a few different cultures.



Match each situation about spinning tops with an expression that can represent it.

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| <p>1. Clare has a collection of 24 spinning tops in four colors. She has the same number of tops in black, white, red, and green. How many tops of each color does she have?</p> | <p>A. $24 \div 2$</p> |
| <p>2. Priya and her friend are decorating 24 wooden tops with paint. If each person is painting the same number of tops, how many tops is each person painting?</p> | <p>B. $12 \div 2$</p> |
| <p>3. A store has 24 tops from around the world displayed in 6 boxes. Each box contains the same number of tops. How many tops are in each box?</p> | <p>C. $24 \div 4$</p> |
| <p>4. Diego has 12 trompos that he wants to give as gifts. If he gives each friend 2 trompos, how many friends can get them as gifts?</p> | <p>D. $12 \div 6$</p> |
| <p>5. Six friends are playing with 12 dreidels. If everyone is playing with the same number of dreidels, how many dreidels does each person have?</p> | <p>E. $24 \div 6$</p> |

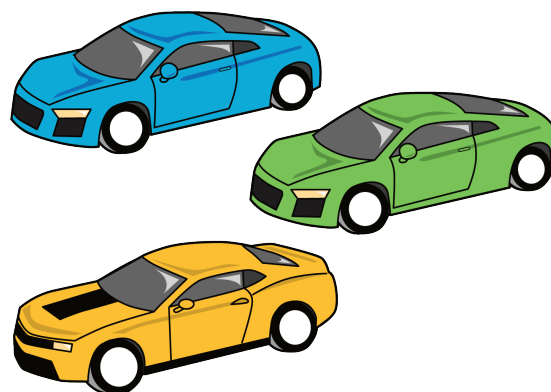
4.2: Cars in Boxes

Consider these two situations.

A. Han has 21 toy cars. He puts the same number of cars in each of 3 boxes. How many cars will be in each box?

B. Han has 21 toy cars. He wants to put 3 cars in each box. How many boxes will he need?

Which situation does the expression $21 \div 3$ represent? Explain your reasoning.



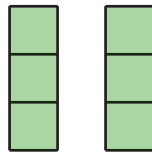
4.3: Stacks of Blocks

Match each situation to a drawing and an expression that represent the situation. Be prepared to explain your reasoning.

1. Kiran uses 6 blocks to make stacks. Each stack has 2 blocks. How many stacks are there?
2. Han uses 6 blocks to make two equal stacks. How many blocks are in each stack?
3. Jada uses 6 blocks to build stacks with 3 blocks each. How many stacks are there?
4. Mai uses 6 blocks to make 3 equal stacks. How many blocks are in each stack?

drawings

A



B



expressions

C

$$6 \div 2$$

D

$$6 \div 3$$