Unit 4, 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.

- $500 - 475$

- $504 - 475$

- $512 - 475$

- $512 - 449$

Activity 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.

1. Clare has a collection of 24 spinning tops in 4 colors. She has the same number of tops in black, white, red, and green. How many tops of each color does she have?

A. $24 \div 2$

2. Priya and her friend decorate 24 wooden tops with paint. Each person paints the same number of tops. How many tops does each person paint?

B. $12 \div 2$

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?

C. $24 \div 4$

4. Diego has 12 trompos (trohm-pohs) to give as gifts. He gives each friend 2 trompos. How many friends get trompos as gifts?

D. $12 \div 6$

5. Six friends make 12 dreidels (dray-duhls). Each friend makes the same number of dreidels. How many dreidels does each friend make?

E. $24 \div 6$

Activity 2

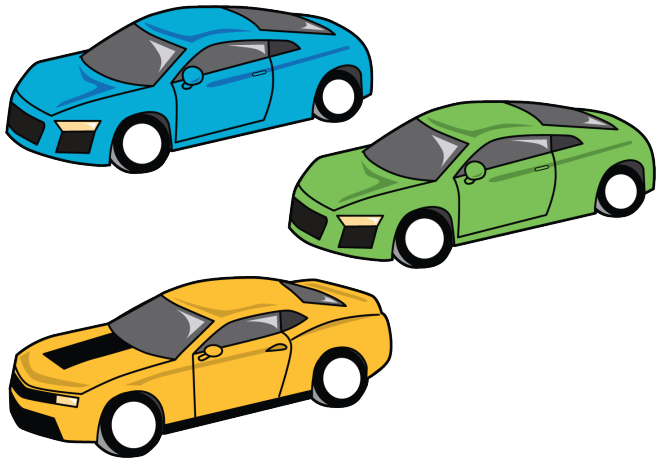
Cars in Boxes

Consider these 2 situations.

A. Han has 21 toy cars. He puts the same number of cars in each of 3 boxes. How many cars are 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.



Activity 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?

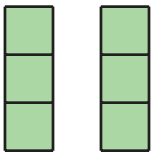
2. Han uses 6 blocks to make 2 equal stacks. How many blocks are in each stack?

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

$6 \div 3$