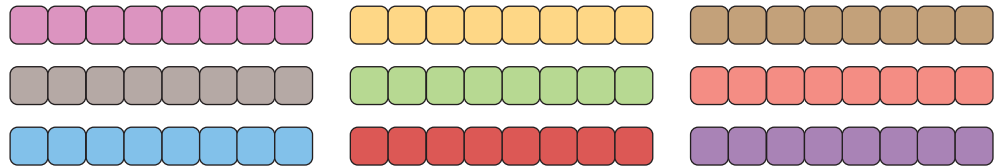


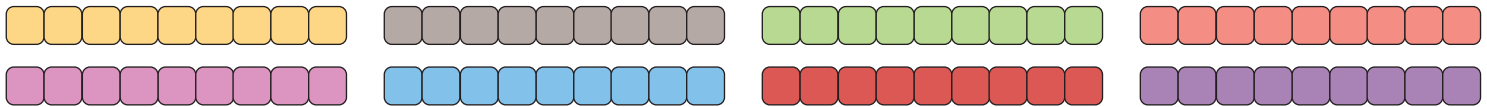
Divided We Stand

You need multilink cubes (optional)

Activity “How many eights make 72?” can be written as $72 \div 8 = 9$. This means that there are 9 sets of 8 units in 72, or using multilink cubes, 9 sets of 8 cubes.



“If you break 72 into 8 equal sets, how big is each set?” can also be written as $72 \div 8 = 9$. This means that there are 9 units (or cubes) in each of the 8 sets.



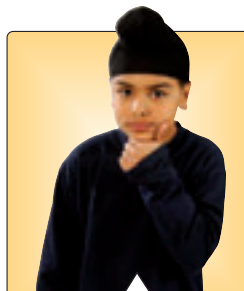
1. Write the two parts of each question below as equations. Use cubes to help if you need to.

a.



If 72 cubes can be divided into 8 sets of 9, what is 72 cubes divided into 4 sets?

b.



If 72 divided by 8 equals 9, what is 72 divided by 9?

c.



If 8 nines make 72, how many threes make 72?

2. Here are some division equations that can be written about 24:

$24 \div 12 = 2$
or $24 \div 2 = 12$

$24 \div 6 = 4$
or $24 \div 4 = 6$

$24 \div 3 = 8$
or $24 \div 8 = 3$

Write at least three division equations about:

- a. 56 b. 48 c. 64
d. 96 e. 78 f. 84.

3. Describe in words how each of these students' ideas about division works. Give another example to show how each idea works.

a.



Matthew

$20 \div 5 = 4$,
so $20 \div 10 = 2$.

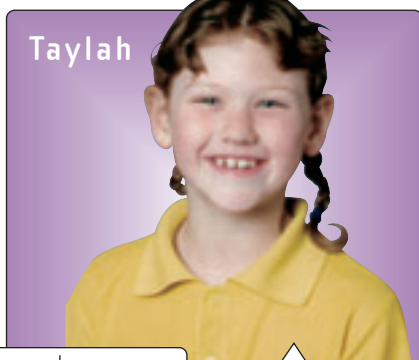
b.



Laurel

$28 \div 4 = 7$,
so $28 \div 7 = 4$.

c.



Taylah

$36 \div 6 = 6$,
so $18 \div 3 = 6$.

d.



Quinten

$18 \div 3 = 6$,
so $18 \div 9 = 2$.

4. Solve each division problem below in two different ways, using the strategies above. For each problem, which of your two strategies is easier to use? Why?

a. $112 \div 8 = \square$ b. $140 \div 5 = \square$ c. $81 \div 3 = \square$ d. $88 \div 4 = \square$

5. Write three division word problems that have the same answer as this one: "Cherie shares 60 marbles among 4 people. How many marbles does each person get?"