

1. If Desmond's game used 36 cards instead of 48 cards, how many players could play his game? Use arrays.



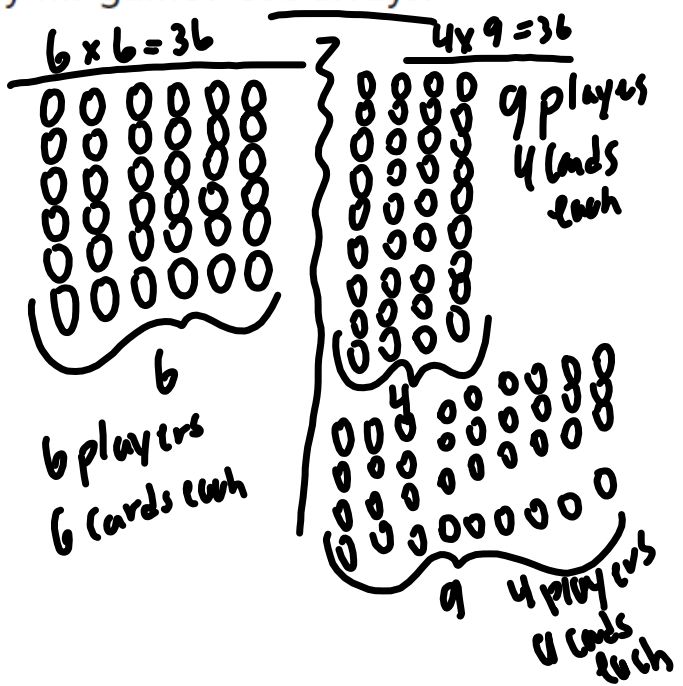
$$\begin{array}{r} 6 \\ \hline \end{array} \times \begin{array}{r} 6 \\ \hline \end{array} = 36$$

$$\begin{array}{r} 4 \\ \hline \end{array} \times \begin{array}{r} 9 \\ \hline \end{array} = 36$$

$$\begin{array}{r} 1 \\ \hline \end{array} \times \begin{array}{r} 36 \\ \hline \end{array} = 36$$

$$\begin{array}{r} 2 \\ \hline \end{array} \times \begin{array}{r} 18 \\ \hline \end{array} = 36$$

$$\begin{array}{r} 3 \\ \hline \end{array} \times \begin{array}{r} 12 \\ \hline \end{array} = 36$$



2. What multiplication fact can you use to solve  $32 \div 4 = \square$ ?

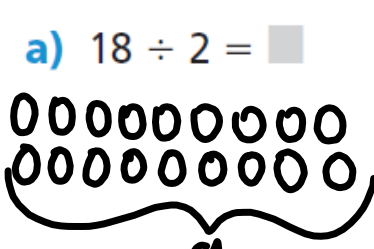
$$4 \times 8 = 32$$

OR

$$8 \times 4 = 32$$

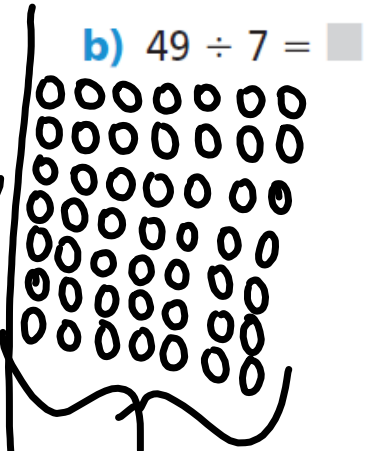
3. Sketch an array to complete each division equation.

a)  $18 \div 2 = \blacksquare$



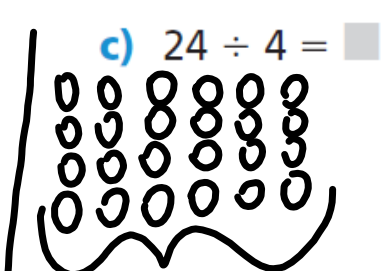
$18 \div 2 = 9$

b)  $49 \div 7 = \blacksquare$



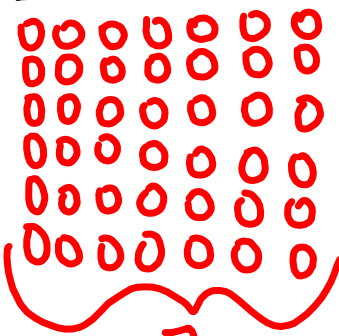
$49 \div 7 = 7$

c)  $24 \div 4 = \blacksquare$



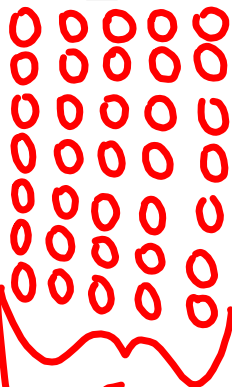
$24 \div 4 = 6$

d)  $42 \div 6$



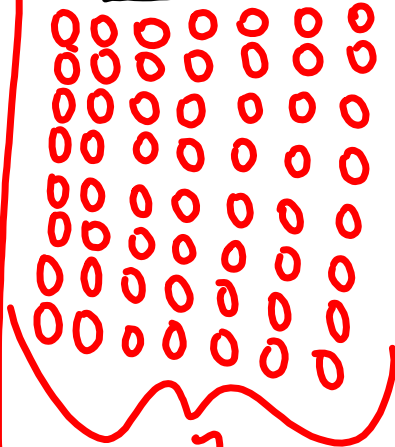
7  
 $42 \div 6 = 7$

e)  $35 \div 7$



5  
 $35 \div 7 = 5$

f)  $56 \div 8$



7  
 $56 \div 8 = 7$

4. You can use multiplication facts to solve division equations. List two division equations for each fact below.

a)  $4 \times 7 = 28$

b)  $3 \times 9 = 27$

4a)  $28 \div 7 = 4$   
 $28 \div 4 = 7$

4b)  $27 \div 9 = 3$   
 $27 \div 3 = 9$

c)  $5 \times 8 = 40$

d)  $7 \times 5 = 35$

4c)  $40 \div 8 = 5$   
 $40 \div 5 = 8$

4d)  $35 \div 5 = 7$   
 $35 \div 7 = 5$

5. A 300 mL bottle of oil has 0 g of trans fat. The oil is divided equally into several other containers.
- a) How many grams of trans fat are in each container?
  - b) Write an equation you can solve to answer part a) if there are four containers.
  - c) Does your answer for part a) depend on the number of containers? Explain your thinking.

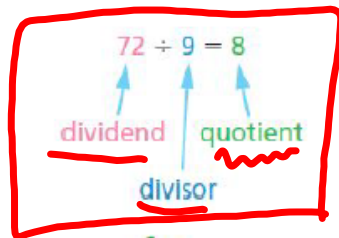


Lesson 2 - Dividing by Halving

$$\begin{array}{r} 123 \\ \times 5 \\ \hline 500 \\ 100 \end{array}$$

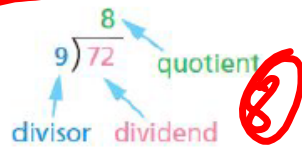
or  $123 \times 5$

When you talk about your division equations, it might help to recall the names of the parts.



$$81 \div 9 = 9$$

Handwritten long division for  $81 \div 9 = 9$ . The divisor 9 is on the left, the dividend 81 is inside a box, and the quotient 9 is written above the box.



$$3 \div 9 = ?$$

$$1024 \div 4$$

Handwritten long division for  $1024 \div 4$ . The divisor 4 is on the left, and the dividend 1024 is inside a box. The quotient 256 is written above the box.

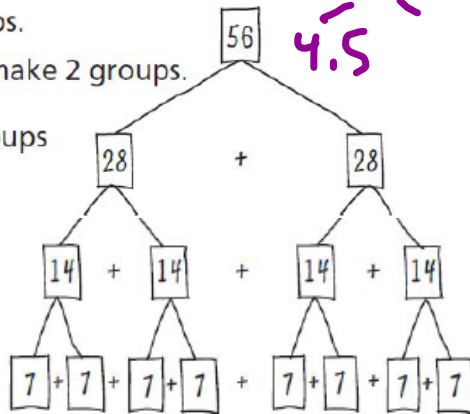
8 vans are taking 56 students to the pioneer village museum. How many students should go in each van?

$56 \div 8 = ?$

I need to make 8 groups.

I can divide 56 by 2 to make 2 groups.

I can divide these 2 groups by 2 to make 4 groups.



$56 \div 8 = 7$

I can divide these 4 groups by 2 to make 8 groups.

7 students should go in each van.



How to half a number !! 63?

$$32 \rightarrow 30 + 2$$

$$\hookrightarrow 15 + 1 = \boxed{16}$$

$$126 \rightarrow 100 + 20 + 6 \quad !!$$

$$\hookrightarrow 50 + 10 + 3 = 63$$

$$68 \rightarrow 60 + 8$$

$$\hookrightarrow 30 + 4 = 34$$

$$494 \rightarrow 400 + 90 + 4$$

$$\hookrightarrow 200 + 45 + 2$$

!! **247**

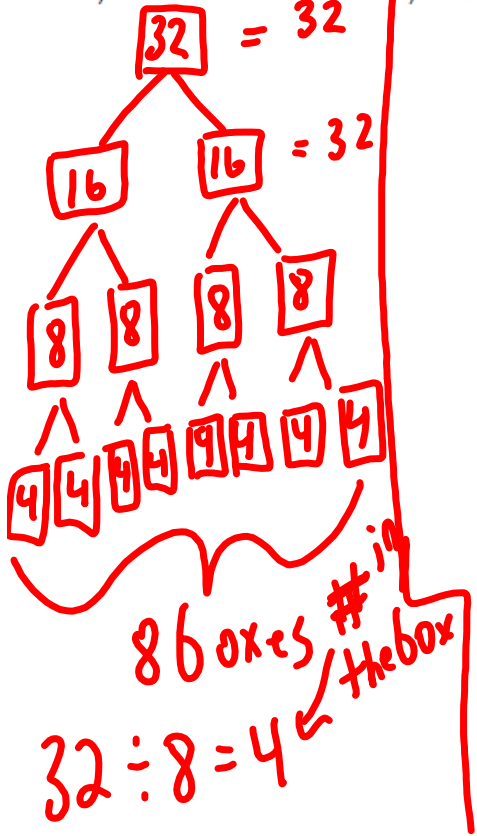
Calculate the following by halving

The divisor = # of boxes in the last row

a)  $32 \div 8$

b)  $24 \div 4$

c)  $64 \div 16$



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