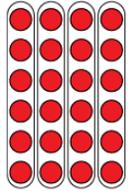


Activity 29 Assessment

Solving Multiplication and Division Problems

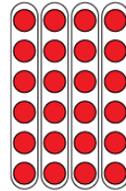
Fluency with Multiplication and Division

Recalls and demonstrates multiplication and divisions facts to 5×5



“I know that $4 \times 6 = 24$
and that $24 \div 6 = 4$.
The array shows both facts.”

Uses inverse operations to solve multiplication and division problems



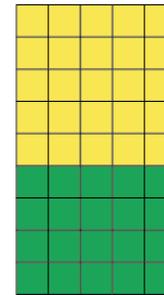
“I can rewrite $24 \div 6 = ?$
as $6 \times ? = 24$.”

Uses known facts to determine unknown facts

“I can use the distributive property to split the multiplication into facts that I know, then add.”

$$5 \times 9 = \underline{5 \times 5} + \underline{5 \times 4}$$

$$25 + 20 = 45$$



Observations/Documentation

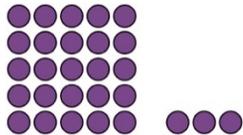
Activity 29 Assessment

Solving Multiplication and Division Problems

Fluency with Multiplication and Division (con't)

Solves division problems involving remainders

I counted 33 photographs to put in an album. Each page can hold 6 photographs. How many pages will I need?



$$33 \div 6 = 5 \text{ R}3$$

I round up to 6 pages to be sure all photos will fit.

Estimates to determine if answer to multiplication or division problem is reasonable

$$33 \div 6 = ?$$

33 is close to 30.

$$30 \div 6 = 5$$

5 is close to the answer I calculated, 5 R3.

So, my answer is reasonable.

Fluently creates and solves whole number multiplication and division problems, with and without remainders

There are 56 basketballs with the same number on each of 8 shelves.

$$8 \times \square = 56, \text{ so } 56 \div 8 = \square$$

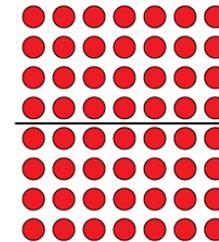
$$8 \times 7 = 56$$

Or

$$8 \times 7 = 4 \times 7 + 4 \times 7$$

$$= 28 + 28$$

$$= 56$$



Observations/Documentation