

Sharing 2 and 3- digit numbers by ones with regrouping

WORKED EXAMPLE

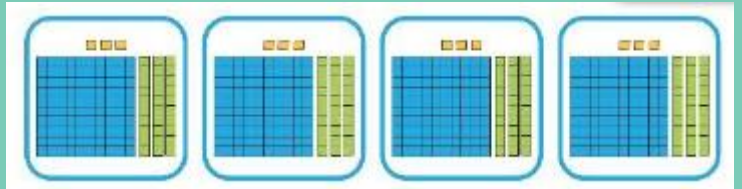
$$532 \div 4$$

5 hundreds **shared** between 4 equal groups is 1 hundred in each group with 1 hundred remaining. We will need to **regroup** this hundred into 10 tens.

We now have 10 tens and 3 tens. We have 13 tens. 13 tens **shared** between 4 groups is 3 tens in each group with 1 ten remaining. We will need to **regroup** this ten into 10 ones.

We now have 10 ones and 2 ones. We have 12 ones. 12 ones **shared** between 4 groups is 3 ones in each group with no ones remaining.

$$532 \div 4 = 133$$



REHEARSE

Use base-10 equipment and the speaking frame to find out the quotients to the following calculations.

$$72 \div 3 = \underline{\quad}$$

I am sharing 72 equally between 3 groups.

$$96 \div 4 = \underline{\quad}$$

I am sharing 96 equally between 4 groups.

$$524 \div 4 = \underline{\quad}$$

I am sharing 524 equally between 4 groups.

$$489 \div 3 = \underline{\quad}$$

I am sharing 489 equally between 3 groups

$$605 \div 5 = \underline{\quad}$$

I am sharing 605 equally between 5 groups

..... hundreds/tens/ones shared between
..... is hundreds/tens/ones in each
group.

We will/will not need to regroup.

APPLY AND EXPLORE

What do you notice about the regroupings required for $524 \div 4$, $489 \div 3$ and $605 \div 5$?

Could you write a calculation which involves dividing by 2 and follows the same pattern?

RETRIEVE

Can I still describe and classify shapes?



True or false, all of these shapes are hexagons?

What else can you say about these shapes?

What is the same and what is different about them?

REHEARSE

Look at these calculations.

What do you notice about the number of hundreds compared to the number of groups you will be sharing between.

What does this tell you?

$$124 \div 4 = \underline{\quad}$$

$$213 \div 3 = \underline{\quad}$$

$$450 \div 5 = \underline{\quad}$$

$$168 \div 8 = \underline{\quad}$$

Now use base-10 equipment and the speaking frame to find out the quotients to the following calculations.

..... hundreds/tens/ones shared between
..... is hundreds/tens/ones in each
group.

We will/will not need to regroup.

APPLY AND EXPLORE

Write division calculations using dividing by 3, 4 and 5 for each of the following rules:

1. A calculation with the greatest quotient below 20.
2. A calculation where the answer must have a remainder of 2.
3. A calculation where the quotient must have 5 tens.
4. A calculation where rules 1-3 all apply.