Name _____ Date _____

Sharing big numbers

Divide by sharing the hundreds, then the tens, then the ones.

1 Learn



To divide a big number, share it out one place at a time. Always start with the **biggest** place on the left: hundreds first, then tens, then ones.

648 ÷ 2: share 6 hundreds, 4 tens and 8 ones into 2 equal groups

	Hundreds	Tens	Ones
group 1	100 100 100	10 10	1 1 1 1
group 2	100 100 100	10 10	1 1 1 1

Each group gets 3 hundreds, 2 tens and 4 ones: **324**.

	3	2	4
2	6	4	8

written as short division

Work out 648 ÷ 2

1. **Hundreds:** 6 ÷ 2 = 3. Write 3 above the 6.
2. **Tens:** 4 ÷ 2 = 2. Write 2 above the 4.
3. **Ones:** 8 ÷ 2 = 4. Write 4 above the 8.
4. Read the answer from left to right: **324**. Check: 324 × 2 = 648.

Flip's tip: write each answer digit **straight above** the digit you shared. Then the digits stay in the right places.

Warm up: fill the gaps.

600 ÷ 3 = ☐ **80 ÷ 4 =** ☐ **900 ÷ 3 =** ☐ **60 ÷ 2 =** ☐

Grown-ups: say the places out loud: "6 hundreds shared by 2 is 3 hundreds". Saying "hundreds" keeps the 3 in the hundreds place.

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2 Try it together a child and a grown-up, about 10 minutes



Coin sharing

You need: some 10p and 1p coins (or scraps of paper marked 10p and 1p).

1. Make **84p** with 8 ten-pence coins and 4 one-pence coins.
2. Share it between **2** people. Share the 10p coins first, then the 1p coins.
3. Say how much each person gets: 4 tens and 2 ones is 42p. Write it in the table.
4. Now share 84p between **4** people, then 96p between **3** people.

Amount	People	10p coins each	1p coins each	Each gets
84p	2			
84p	4			
96p	3			

Grown-ups: ask "Why do we share the 10p coins first?" Bigger values first means we only handle each coin once.

3 Practise

A. Share each place. Then write the answer.

369 ÷ 3

hundreds 3 ÷ 3 = ☐

tens 6 ÷ 3 = ☐

ones 9 ÷ 3 = ☐

369 ÷ 3 = ☐

486 ÷ 2

hundreds 4 ÷ 2 = ☐

tens 8 ÷ 2 = ☐

ones 6 ÷ 2 = ☐

486 ÷ 2 = ☐

840 ÷ 4

hundreds 8 ÷ 4 = ☐

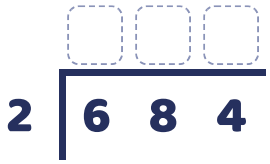
tens 4 ÷ 4 = ☐

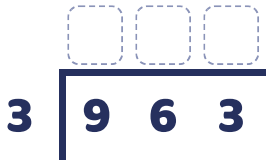
ones 0 ÷ 4 = ☐

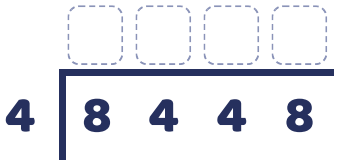
840 ÷ 4 = ☐

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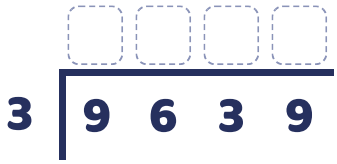
B. Use short division. Start on the left.











C. Solve each problem.

The bakery packs **963** cookies equally onto **3** trays. How many cookies are on each tray?

☐ cookies

2,486 flour bags are shared equally between **2** shops. How many bags does each shop get?

☐ bags

Challenge

Sam worked out 846 ÷ 2. He did 6 ÷ 2 = 3, then 4 ÷ 2 = 2, then 8 ÷ 2 = 4, and wrote the answer 324. Is Sam right? Explain.

I can… Tick when you can.

- ☐ share the hundreds, then the tens, then the ones
- ☐ write each answer digit above the digit I shared
- ☐ check my answer by multiplying