

RECALL



Write $<$, $>$ or $=$ to make the statements true.

a) 78×10 78×100

c) 930×10 100×93

b) 100×56 65×100

d) $1,000 \times 482$ 482×100



I can multiply and divide single-digit numbers by 10 and 100.

(a)

$$85 \times \boxed{} = 8500$$

(b)

$$\boxed{} \times 1000 = 400$$

(c)

$$\boxed{} \times 10 = 457.1$$

One Millions	Hundred Thousands	Ten Thousands	One Thousands	Hundreds	Tens	Ones	Decimal point	Tenths	Hundredths	One-Thousandths	Ten-Thousandths	Hundred-Thousandths
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Guided Practice - My turn

- ▶ How much will each 1st prize winner receive?
- ▶ How much will each 2nd prize winner receive?

help

- ▶ A place value chart may be useful here
- ▶ TN: moving numbers



- ▶ How much will each 3rd prize winner receive?



Guided Practice - Your turn

► How much will each 1st prize winner receive?

► How much will each 2nd prize winner receive

help ► A place value chart may be useful here

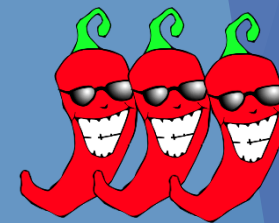
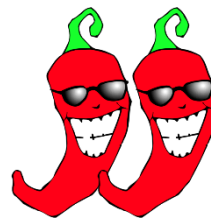


1st prize: 10 winners share total prize of £450
2nd prize: 100 winners share total prize of £2300
3rd prize: 1000 winners share total prize of £3750

come in for the chance to win!

► How much will each 3rd prize winner receive?





$320 \div 10 =$	$3400 \div 100 =$	$250000 \div 1000 =$
$470 \div 10 =$	$4700 \div 100 =$	$380000 \div 1000 =$
$580 \div 10 =$	$5300 \div 100 =$	$430000 \div 1000 =$
$650 \div 10 =$	$6800 \div 100 =$	$570000 \div 1000 =$
$740 \div 10 =$	$7500 \div 100 =$	$650000 \div 1000 =$



EXT: Put $>$ $<$ or $=$

$$430 \div 10 \quad \underline{\quad} \quad 4300 \div 100$$

$$5400 \div 10 \quad \underline{\quad} \quad 444000 \div 100$$

EXT:

$$1,500 \div \underline{\quad} = 15$$

$$150 \div \underline{\quad} = 15$$

$$15,000 \div \underline{\quad} = 15$$

Dive Deeper 1



In 2019, 568,000 houses were built.

In 2018, 10 times fewer houses were built than in 2019

In 2017, 100 times fewer houses were built than in 2019

- a) How many houses were built in 2018?
- b) How many houses were built in 2017?
- c) How many houses were built between 2017 and 2019?

2)

Mo has £357,000 in his bank.

He divides the amount by 1,000 and takes that much money out of the bank.

Using the money he has taken out, he buys some furniture costing two hundred and sixty-nine pounds.

How much money does Mo have left from the money he took out?

Show your working out.

4)

3)

While in Wonderland, Alice drank a potion and everything shrank. All the items around her became ten times smaller! Are these measurements correct?

Item	Original measurement	After shrinking
Height of a door	220 cm	2,200 cm
Her height	160 cm	16 cm
Length of a book	340 mm	43 mm
Height of a mug	220 mm	?

Can you fill in the missing measurement?

Can you explain what Alice did wrong?

5a. Daniel is completing the calculation below.

$$62,000 \div 100 =$$

He has shown his answer on the place value chart below.

T Th	Th	H	T	O
			6	2

Explain the mistake that Daniel has made.

Dive Deeper 2

Four children are in a race. The numbers on their vests are:

350 35
3,500 53

Use the clues to match each vest number to a child.

- Jack's number is ten times smaller than Mo's.
- Alex's number is not ten times smaller than Jack's or Dora's or Mo's.
- Dora's number is ten times smaller than Jack's.

Here are the answers to some problems:

5,700 405 397 6,203

Can you write at least two questions for each answer involving dividing by 10, 100 or 1,000?

Here are five number cards.

0.47

10

100

1000

4.07

Use **four** of the cards to complete these calculations.

$47 \div 100 = 0.47$

$4.07 \times 10 = 40.7$

Use the digit cards to fill in the missing digits.

1 2 3 4 5 6 7 8 9

$170 \div 10 = \underline{\quad}$

$\underline{\quad}20 \times 10 = 3,\underline{\quad}00$

$1,8\underline{\quad}0 \div 10 = 1\underline{\quad}6$

$\underline{\quad}9 \times 100 = 5,\underline{\quad}00$

$6\underline{\quad} = 6,400 \div 100$