

RECALL



Circle **all** the cube numbers.

5

8

16

25

27

64

A **square** number and a **prime** number have a total of 22

What are the two numbers?

$$\boxed{} + \boxed{} = 22$$

square
number

prime
number



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

$200 \div 10$

$0.2 \div 10$

0.2×10

$2 \div 10$

$2 \div 1000$

0.2

20

2

0.02

0.002

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

- ▶ Adam and Ben are building cars ready for Christmas.
- ▶ Each car needs 4 wheels, 10 batteries, 2 lamps and 12 screws.
- ▶ a) How many wheels are needed for 10 cars?
- ▶ b) How many wheels are needed for 100 cars?

help

- ▶ A place value chart may be useful



- ▶ How much of each part are needed to build 100 cars?



Guided practice- Your turn

- ▶ Adam and Ben are building cars ready for Christmas.
- ▶ Each car needs 4 wheels, 10 batteries, 2 lamps and 12 screws.
- ▶ a) How many screws are needed for 10 cars?
- ▶ b) How many lamps are needed for 100 cars?

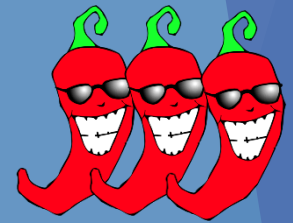
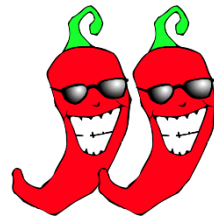
help

- ▶ A place value chart may be useful



- ▶ How much of each part are needed to build 1000 cars?





Multiply these numbers by 10, 100 and 1000

1. 85

2. 95

3. 105

4. 115

5. 125

6. 135

Complete the number sentences

1. $10 \times \underline{\quad} = 450$

2. $10 \times \underline{\quad} = 750$

3. $100 \times \underline{\quad} = 4400$

4. $100 \times \underline{\quad} = 7300$

5. $1000 \times \underline{\quad} = 35000$

6. $1000 \times \underline{\quad} = 64000$

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

1. $78 \times 10 \underline{\quad} 78 \times 100$

2. $100 \times 56 \underline{\quad} 65 \times 100$

3. $930 \times 10 \underline{\quad} 100 \times 93$

4. $1,000 \times 482 \underline{\quad} 482 \times 100$

5. $520 \times 10 \underline{\quad} 100 \times 52$

6. $759 \times 100 \underline{\quad} 984 \times 10$

Dive Deeper 1



1)

Use each of these digits once to complete the number sentences

1 2 4 5 6 7 9

1. $8 \times 100 < \underline{\quad}0 \times 10$
2. $\underline{\quad} \times 10 \times 10 < \underline{\quad}0 \times 100$
3. $100 \times 50 > 10 \times 10 \times 10 \times \underline{\quad}$
4. $\underline{\quad} \times 10 < 10 \times 10 \times \underline{\quad} < \underline{\quad}0 \times 100$

3)

Ms Rose has £1,020

Mr Trent has £120



Ms Rose has 10 times more money than Mr Trent.

Is Tiny correct?

Explain your reasoning.

2)

Complete these calculations.



$$15 \times 100 = \boxed{}$$

$$\boxed{} \times 10 = 1500$$

$$\boxed{} \div 100 = 150$$

$$150 \div 10 = \boxed{}$$

4)

Aisha has won 300 points in a computer game.

Brett has 100 times the number of points Aisha has.

How many more points does Brett have than Aisha?



Dive Deeper 2

Here are six cards.

1)

$\times 10$

$\times 100$

$\times 1000$

$\div 10$

$\div 100$

$\div 1000$

Use a card to complete each calculation.

$$5.3 \square = 0.53$$

$$5.3 \square = 5300$$

$$5.3 \square = 0.053$$

2)

Mrs Hall owns a bookshop.

- In January, she sold 145 books.
- In February, she sold 10 times as many books.
- In March, she sold 10 times as many books as in February.

How many books did Mrs Hall sell in March?

3)

100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

What number is 1,000 times the size of the number shown?



Show 602,000 on a Gattegno chart.

Use the chart to work out the missing numbers.

$$602,000 = \square \times 10$$

$$602,000 = \square \times 100$$

$$602,000 = \square \times 1,000$$