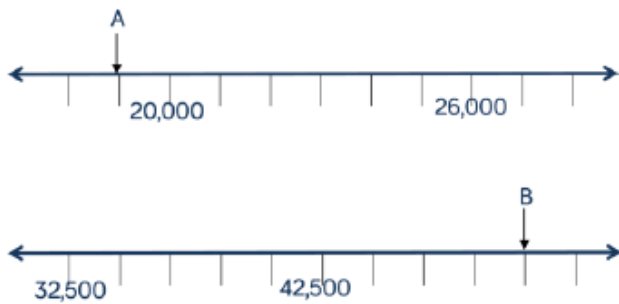


Find the difference between A and B



$$A = 19,000$$
$$B = 50,500$$

The difference is 31,500

True or false.

- a) $5,463 \times 18$ is the same as $18 \times 5,463$
- b) I can find the answer to $1,100 \times 28$ by using $1,100 \times 30$
- c) $70 \div 10 = 700 \div 100$

- a) True because multiplication is commutative so the calculation can be done in any order
- b) True because I can multiply by 30 and then take 2 lots of 1,100 away
- c) True because both numbers have been made 10 times bigger

$$2,190 \times 14 = 30,660$$

Are there any other 4-digit numbers when multiplied by a 2-digit number less than 20 give the answer 30,660?

Possible answers:

$$3,066 \times 10$$
$$2,555 \times 12$$
$$2,044 \times 15$$

Ivan

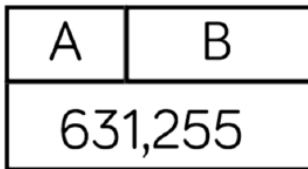


To work out $4,320 \div 15$ I will first divide 4,320 by 5 then divide the answer by 10

Is Ivan correct?
Explain why.

Ivan is incorrect. He has partitioned 15 when he should have used factor pairs e.g. 5 and 3
The answer is 288

Here is a bar model.



A is an odd number which rounds to 100,000 to the nearest ten thousand. It has a digit total of 20

B is an even number which rounds to 500,000 to the nearest hundred thousand. It has a digit total of 10

A and B are both multiples of 5 but end in different digits.

Possible answer:

$$99,255 + 532,000 = 631,255$$

Find the missing digits

$$\begin{array}{r} 041\text{r}3 \\ 4 \overline{)1\text{ }59} \end{array}$$

$$\begin{array}{r} 041\text{r}3 \\ 4 \overline{)1\text{ }6\text{ }59} \end{array}$$

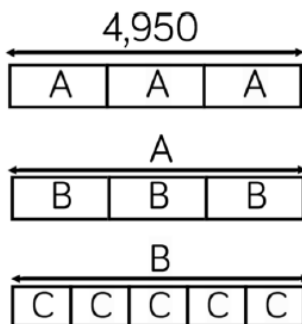
Here are two calculation cards

$A = 396 \div 11$
$B = 832 \div 13$

$$\begin{aligned} 396 \div 11 &= 36 \\ 832 \div 13 &= 63 \\ 63 - 36 &= 27 \end{aligned}$$

Find the difference between A and B

Work out the value of C
(The bar models are not drawn to scale)



$$4,950 \div 3 = 1,650$$

$$1,650 \div 3 = 550$$

$$550 \div 5 = 110$$

FACTOR PAIRS

Divide 1,248 by

- 48
- 24
- 12

What did you do each time?
Explain your strategy.

I used factor pairs to complete the first question e.g. I divided 1,248 by 12 then divided the answer by 4
Because 24 is half of 48, I doubled 26 to get 52
I repeated this with 12 to get 104

$$\begin{aligned} 1,248 \div 48 &= 26 \\ 1,248 \div 24 &= 52 \\ 1,248 \div 12 &= 104 \end{aligned}$$