

Multiples of 10, 100 and 1,000

1 Mo is multiplying numbers by 20

To multiply by
20, I multiply first by
2 and then by 10



a) Use Mo's method to complete the multiplication sentences.

$$7 \times 20 = \boxed{}$$

$$12 \times 20 = \boxed{}$$

$$20 \times 134 = \boxed{}$$

- 1 b) Would you get the same answer if you multiplied by 10 first and then by 2? _____

Write an example.

2

Complete the sentences.

a) To multiply by 50, you multiply by 5 first

and then by

b) To multiply by 200, you multiply by

first and then by

c) To multiply by 7,000 you multiply by

first and then by

3 Complete the multiplication sentences.

Show all the steps in your thinking.

a) $7 \times 500 =$

b) $6,000 \times 8 =$

c) $300 \times 90 =$

d) $500 \times 300 =$

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Complete the calculations.

a) $300 \times \boxed{} = 9,000$

d) $\boxed{} \times 90 = 27,000$

b) $6,000 \times \boxed{} = 18,000$

e) $500 \times 60 = \boxed{}$

c) $700 \times \boxed{} = 28,000$

f) $8,000 \times \boxed{} = 720,000$



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$$42 \times 3 = 126$$

Use this fact to solve the calculations.

a) $42 \times 30 =$

c) $300 \times 42 =$

b) $420 \times 3 =$

d) $42 \times 3,000 =$



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Here are two methods to solve 16×50

Method 1

$$\begin{aligned}16 \times 10 \times 5 \\= 160 \times 5 \\= 800\end{aligned}$$

Method 2

$$\begin{aligned}16 \times 5 \times 10 \\= 80 \times 10 \\= 800\end{aligned}$$

a) What is the same about the methods?

What is different?

b) What other method could you use to multiply by 50?

Show your method.

c) Share your method with a partner.



7 Jack and Mo are calculating $3,500 \div 70$

Jack's workings

$$3,500 \div 10 = 350$$

$$350 \times 7 = 2,450$$

Mo's workings

$$3,500 \div 10 = 350$$

$$350 \div 7 = 50$$

a) Whose workings are correct? _____

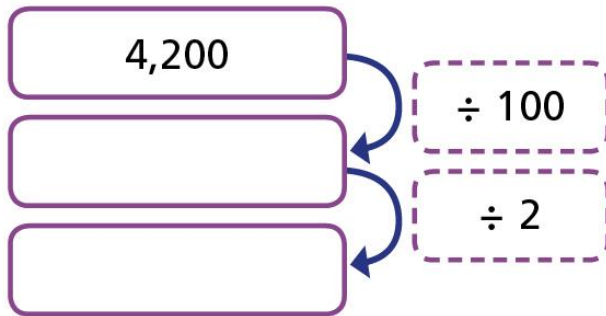
b) What mistake has the other person made?



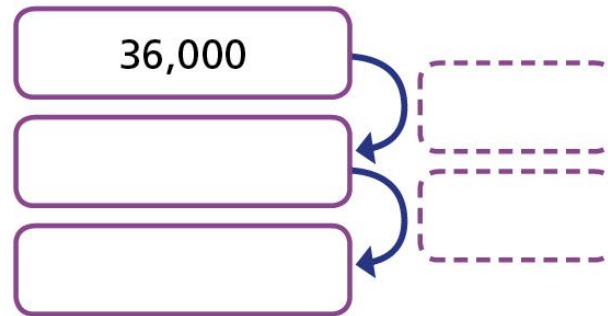
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Complete the division diagrams.

a) $4,200 \div 200$



b) $36,000 \div 6,000$



Complete the division sentences.

c) $3,200 \div 80 =$

d) $72,000 \div 9,000 =$

$3,200 \div 800 =$

$72,000 \div 900 =$

$72,000 \div 90 =$

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Match the calculations to the answers.

One has been done for you.

$$8 \times 40$$

3,200

$$3,200 \div 80$$

320

$$4 \times 800$$

40

$$32,000 \div 40$$

800



10

The answer is 400

What could the question be?

Write 4 division and 4 multiplication questions.

Ask a partner to check your questions.