

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.

$7 \times 20 = \square$

$12 \times 20 = \square$

$20 \times 134 = \square$

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 \square

b) To multiply by 200, you multiply by \square first and then by \square

c) To multiply by 7,000 you multiply by \square first and then by \square

3 Complete the multiplication sentences. Show all the steps in your thinking.

a) $7 \times 500 = \square$

b) $6,000 \times 8 = \square$

c) $300 \times 90 = \square$

d) $500 \times 300 = \square$

4 Complete the calculations.

a) $300 \times \square = 9,000$

d) $\square \times 90 = 27,000$

b) $6,000 \times \square = 18,000$

e) $500 \times 60 = \square$

c) $700 \times \square = 28,000$

f) $8,000 \times \square = 720,000$

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$42 \times 3 = 126$

Use this fact to solve the calculations.

a) $42 \times 30 = \square$

c) $300 \times 42 = \square$

b) $420 \times 3 = \square$

d) $42 \times 3,000 = \square$



6 Here are two methods to solve 16×50

Method 1

$$16 \times 10 \times 5$$

$$= 160 \times 5$$

$$= 800$$

Method 2

$$16 \times 5 \times 10$$

$$= 80 \times 10$$

$$= 800$$

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

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

$$350 \div 7 = 50$$

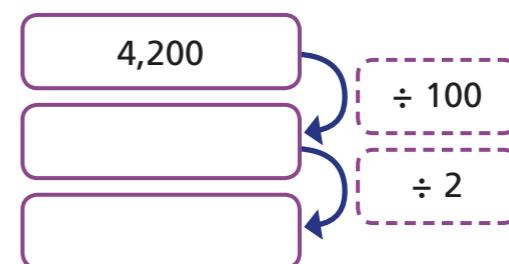
a) Whose workings are correct? _____

b) What mistake has the other person made?

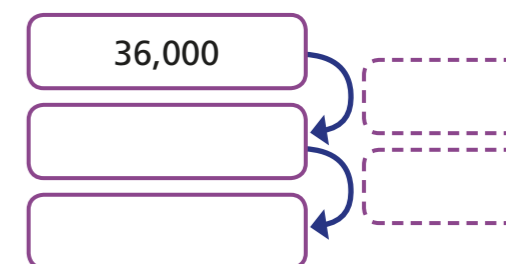


8 Complete the division diagrams.

a) $4,200 \div 200$



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



Complete the division sentences.

c) $3,200 \div 80 = \square$

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

$$3,200 \div 800 = \square$$

$$72,000 \div 900 = \square$$

$$72,000 \div 90 = \square$$

9 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.

