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 work out the multiplications.

 7×20

12 × 20

 20×134

- b) Would you get the same answer if you multiplied by 10 first and then by 2?Write an example.
- 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 Work out the multiplications.

Show all the steps in your thinking.

- **a)** 7 × 500
- **b)** 6,000 × 8
- **c)** 300 × 90
- **d)** 500 × 300

4 Complete the calculations.

a) 300 × = 9,000

b) 6,000 × = 18,000

c) 700 × = 28,000

f) 8,000 × = 720,000



Use this fact to solve the calculations.

a) 42 × 30

c) 300 × 42

b) 420 × 3

- **d)** 42 × 3,000
- 6 Here are two methods to solve 16 × 50

Method 1	Method 2
16 × 10 × 5	16 × 5 × 10
= 160 × 5	= 80 × 10
= 800	= 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.
- Jack and Mo are calculating 3,500 ÷ 70

Jack's workings	lo's workings
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$$3,500 \div 10 = 350$$

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

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

$$350 \div 7 = 50$$



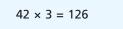


Multiples of 10, 100 and 1,000



- 4 Complete the calculations.
 - a) 300 × = 9,000
- **d)** × 90 = 27,000
- **b)** 6,000 × = 18,000
- e) 500 × 60 =
- c) 700 × = 28,000
- f) 8,000 × = 720,000







a) 42×30

c) 300 × 42

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- **d)** 42 × 3,000
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7) Jack and Mo are calculating 3,500 ÷ 70

Jack's workings

Mo's workings

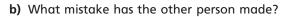
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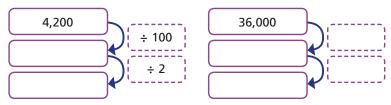
$$350 \div 7 = 50$$

a) Whose workings are correct?





- Complete the division diagrams.
 - a) 4,200 ÷ 200



Complete the division sentences.

$$3,200 \div 800$$

$$72,000 \div 900$$

$$72,000 \div 90$$

Match the calculations to the answers.

One has been done for you.

8 × 40	3,200
3,200 ÷ 80	320
4 × 800	40
32,000 ÷ 40	800

The answer is 400

What could the question be?

Write 4 division and 4 multiplication questions.

Ask a partner to check your questions.

