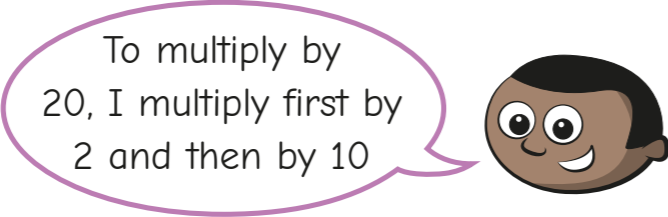


**1** Mo is multiplying numbers by 20



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

$7 \times 20 =$

$12 \times 20 =$

$20 \times 134 =$

**b)** Would you get the same answer if you multiplied by 10 first and then by 2? \_\_\_\_\_

Give 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)**  $500 \times 300 =$

**4** Complete the calculations.

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

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

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

**e)**  $500 \times 60 =$

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

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

**5**

$42 \times 3 = 126$

Use this fact to solve the calculations.

**a)**  $42 \times 30 =$

**c)**  $300 \times 42 =$

**b)**  $420 \times 3 =$

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



6 Here are two methods to solve  $16 \times 50$

**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.

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Share your method with a partner.

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

**Jack's workings**

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

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

**Brett's workings**

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

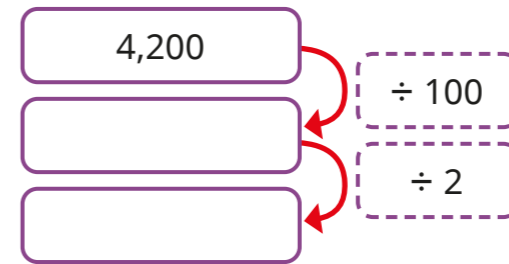
$$350 \div 7 = 50$$

a) Whose workings are correct? \_\_\_\_\_

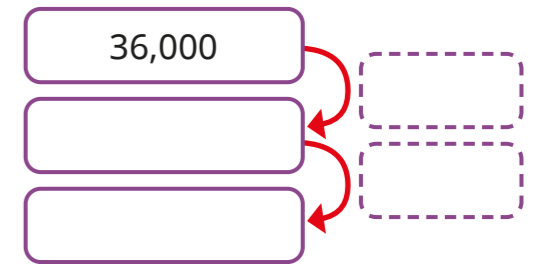
b) What mistake has the other person made?

8 Complete the division diagrams.

a)  $4,200 \div 200$



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



9 Complete the division sentences.

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

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

$3,200 \div 800 = \square$

$72,000 \div 900 = \square$

$72,000 \div 90 = \square$

10 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

11 The answer is 400

What could the question be?

Write four division and four multiplication questions.

Ask a partner to check your questions.