

Multiplying Multiples of 100

Lesson 8

In Focus



I have £200.



I have 4 times as much as you have.

How much does  have?

What calculation do we need to work this out?

Let's Learn

1 $4 \times 2 = 8$
 4×2 hundreds = 8 hundreds
 $4 \times 200 = 800$

 has £800.



2 $7 \times 300 =$

Method 1

$$\begin{array}{r} 300 \\ 300 \\ 300 \\ 300 \\ 300 \\ 300 \\ 300 \\ + 300 \\ \hline 2100 \end{array}$$

Method 2

$$\begin{aligned} 7 \times 3 &= 21 \\ 7 \times 3 \text{ hundreds} &= 21 \text{ hundreds} \\ 7 \times 300 &= 2100 \end{aligned}$$

Method 3

$$\begin{aligned} 7 \times 300 &= 7 \times 3 \times 100 \\ &= 7 \times 3 \times 100 \\ &= 21 \times 100 \\ &= 21 \text{ hundreds} \\ &= 2100 \end{aligned}$$

21 hundreds = 2100



Which method is best?

3

$$600 \times 7 = \square$$

$$600 \times 7 = 42 \text{ hundreds}$$

$$600 \times 7 = 4200$$

$$6 \times 100 \times 7 = 6 \times 700$$

$$= 6 \times 7 \text{ hundreds}$$

$$= 42 \text{ hundreds}$$



Guided Practice

1



contains 6 times as many  as  contains.



contains 200 .

How many  are there in the bigger box?

Method 1

$$6 \times 200 = \square$$

Method 2

$$6 \times 200 = 6 \times 2 \text{ hundreds}$$

$$= \square \text{ hundreds}$$

$$= \square$$



2

Find the product of

(a) 8 and 200.

(b) 3 and 900.

(c) 800 and 6.

Product means the answer of 2 numbers that you multiply together.

Worksheet 8

Multiplying Multiples of 100

- 1 Amira found the value of 4×200 in three ways.
Fill in the missing numbers.

$$4 \times 200 = \boxed{200} + \boxed{200} + \boxed{200} + \boxed{200} = \boxed{}$$

$$4 \times 200 = 4 \times \boxed{2} \text{ hundreds} = \boxed{8} \text{ hundreds} = \boxed{}$$

$$4 \times 200 = 4 \times 2 \times \boxed{100} = \boxed{8} \times \boxed{100} = \boxed{}$$

Use Amira's methods to find the products.

(a) $9 \times 600 = \boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{}$

$$\boxed{} + \boxed{} + \boxed{} + \boxed{} = \boxed{}$$

$$9 \times 600 = 9 \times \boxed{} \text{ hundreds} = \boxed{} \text{ hundreds} = \boxed{}$$

$$9 \times 600 = 9 \times 6 \times \boxed{} = \boxed{} \times \boxed{} = \boxed{}$$

(b) $500 \times 5 = \boxed{} + \boxed{} + \boxed{} + \boxed{} + \boxed{}$

$$= \boxed{}$$

$$500 \times 5 = 5 \times \boxed{} \text{ hundreds} = \boxed{} \text{ hundreds} = \boxed{}$$

$$500 \times 5 = 5 \times 5 \times \boxed{} = \boxed{} \times \boxed{} = \boxed{}$$



- 2 Circle the two numbers that give the product shown on the left.

1200	2	3	4	100	200	300
------	---	---	---	-----	-----	-----

1500	3	4	5	400	500	600
------	---	---	---	-----	-----	-----

900	1	2	3	200	300	400
-----	---	---	---	-----	-----	-----

3600	6	7	8	400	500	600
------	---	---	---	-----	-----	-----

2800	7	8	9	300	400	500
------	---	---	---	-----	-----	-----

4800	5	6	7	600	700	800
------	---	---	---	-----	-----	-----

- 3 Multiply.

(a) $3 \times 600 =$

(b) $4 \times 800 =$

(c) $6 \times 900 =$

(d) $6 \times 300 =$

(e) $9 \times 500 =$

(f) $10 \times 700 =$

(g) $800 \times 7 =$

(h) $500 \times 6 =$

(i) $9 \times 700 =$

(j) $11 \times 400 =$

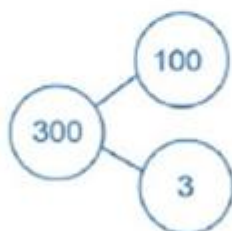
Extension Work

Challenge yourself with these extension questions

Use <, > or = to make the statements correct.		
75×100	<input type="text"/>	75×10
100×47	<input type="text"/>	47×100
39×100	<input type="text"/>	$39 \times 10 \times 10$

Which representation does **not** show multiplying by 100?

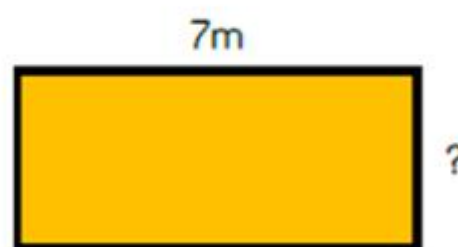
Explain your answer.



The perimeter of the rectangle is 26m.

Find the length of the missing side.

Give your answer in cm.



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Fill in the missing numbers.

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$$4 \times 200 = 4 \times \boxed{2} \text{ hundreds} = \boxed{8} \text{ hundreds} = \boxed{800}$$

$$4 \times 200 = 4 \times 2 \times \boxed{100} = \boxed{8} \times \boxed{100} = \boxed{800}$$

Use Amira's methods to find the products.

(a) $9 \times 600 = \boxed{600} + \boxed{600} + \boxed{600} + \boxed{600} + \boxed{600}$

$$\boxed{600} + \boxed{600} + \boxed{600} + \boxed{600} = \boxed{5400}$$

$$9 \times 600 = 9 \times \boxed{6} \text{ hundreds} = \boxed{54} \text{ hundreds} = \boxed{5400}$$

$$9 \times 600 = 9 \times 6 \times \boxed{100} = \boxed{54} \times \boxed{100} = \boxed{5400}$$

(b) $500 \times 5 = \boxed{500} + \boxed{500} + \boxed{500} + \boxed{500} + \boxed{500}$
 $= \boxed{2500}$

$$500 \times 5 = 5 \times \boxed{5} \text{ hundreds} = \boxed{25} \text{ hundreds} = \boxed{2500}$$

$$500 \times 5 = 5 \times 5 \times \boxed{100} = \boxed{25} \times \boxed{100} = \boxed{2500}$$

- 2 Circle the two numbers that give the product shown on the left.

1200	2	3	4	100	200	300
1500	3	4	5	400	500	600
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2800	7	8	9	300	400	500
4800	5	6	7	600	700	800

- 3 Multiply.

(a) $3 \times 600 =$	1800	(b) $4 \times 800 =$	3200
(c) $6 \times 900 =$	5400	(d) $6 \times 300 =$	1800
(e) $9 \times 500 =$	4500	(f) $10 \times 700 =$	7000
(g) $800 \times 7 =$	5600	(h) $500 \times 6 =$	3000
(i) $9 \times 700 =$	6300	(j) $11 \times 400 =$	4400