

Multiplying 2-Digit Numbers

Lesson 1

In Focus



How many oranges are there in the 4 boxes altogether?

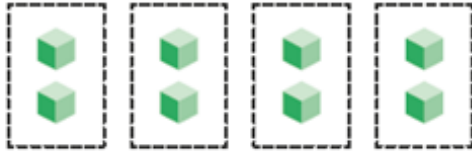
Think about what altogether means...

We need to work out how many oranges there are in all of the boxes.

$20 \times 4 = ?$ Use 2×4 to help you. How is this going to help you work out 20×4 ?

Let's Learn

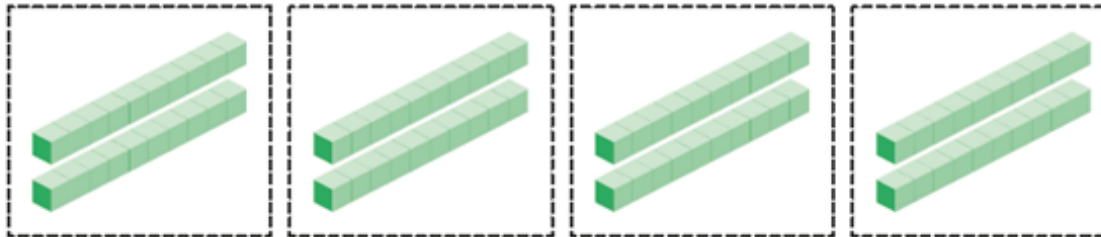
1



Multiply 2 ones by 4
 $2 \times 4 = 8$

$$\begin{array}{r} \text{o} \\ 2 \\ \times 4 \\ \hline 8 \end{array}$$

2



Multiply 2 tens by 4
 $20 \times 4 = 80$

$$\begin{array}{r} \text{t} \quad \text{o} \\ 2 \quad 0 \\ \times \quad \quad 4 \\ \hline 8 \quad 0 \end{array}$$

There are 80 oranges in the 4 boxes altogether.

Guided Practice

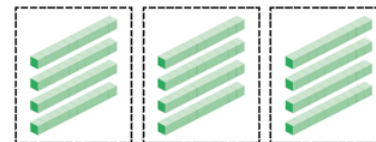
Multiply.

1 $3 \times 4 = \square$

$3 \times 40 = \square$



3 × 4 tens



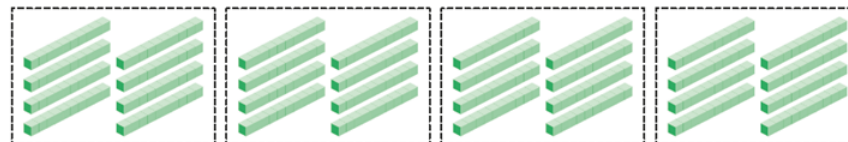
Think about the method we have just seen. How can this help you?

Use the pictures to help you too.

2 $4 \times 8 = \square$

$4 \times 80 = \square$

4 × 8 tens



3 $3 \times 20 = \square$

$3 \times 40 = \square$

$3 \times 80 = \square$



What is 3×30 ?



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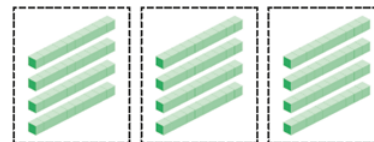
Guided Practice

Multiply.

$$\begin{array}{r} 12 \\ 3 \times 4 = \\ \hline 3 \times 40 = 120 \end{array}$$

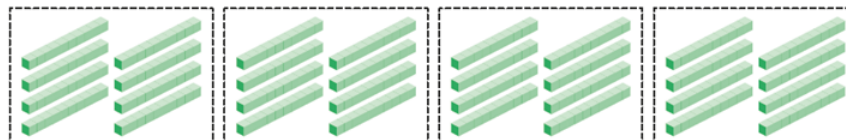


3 × 4 tens



$$\begin{array}{r} 32 \\ 4 \times 8 = \\ \hline 4 \times 80 = 320 \end{array}$$

4 × 8 tens



$$\begin{array}{r} 60 \\ 3 \times 20 = \\ \hline 3 \times 40 = 120 \\ \hline 3 \times 80 = 240 \end{array}$$



What is 3 × 30?

90

Complete Worksheet 1 • Page 115 – 116

Further Multiplication and Division

Chapter 4

Name: _____ Class: _____ Date: _____

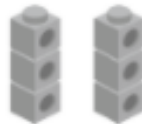
Worksheet 1

Multiplying 2-Digit Numbers

1 Multiply.

(a) $2 \times 3 =$

$2 \times 30 =$



(c) $6 \times 8 =$

$60 \times 8 =$



(b) $5 \times 4 =$

$5 \times 40 =$



(d) $9 \times 3 =$

$90 \times 3 =$



2 Multiply and fill in the blanks.

(a) $4 \times 30 = \square$

(b) $8 \times 20 = \square$

$4 \times 50 = \square$

$8 \times 40 = \square$

$4 \times 70 = \square$

$8 \times 60 = \square$

$4 \times 80 = \square$

$8 \times 80 = \square$

$4 \times 100 = \square$

$8 \times 90 = \square$

(c) $30 \times 3 = \square$

(d) $40 \times 3 = \square$

$30 \times 5 = \square$

$40 \times 4 = \square$

$30 \times 7 = \square$

$40 \times 6 = \square$

$30 \times 8 = \square$

$40 \times 7 = \square$

$30 \times 10 = \square$

$40 \times 9 = \square$

Further Multiplication and Division

Chapter 4

Name: _____ Class: _____ Date: _____

Worksheet 1

Multiplying 2-Digit Numbers

1 Multiply.

(a) $2 \times 3 =$ 6

$2 \times 30 =$ 60



(c) $6 \times 8 =$ 48

$60 \times 8 =$ 480



(b) $5 \times 4 =$ 20

$5 \times 40 =$ 200



(d) $9 \times 3 =$ 27

$90 \times 3 =$ 270





2 Multiply and fill in the blanks.

(a) $4 \times 30 =$ 120

(b) $8 \times 20 =$ 160

$4 \times 50 =$ 200

$8 \times 40 =$ 320

$4 \times 70 =$ 280

$8 \times 60 =$ 480

$4 \times 80 =$ 320

$8 \times 80 =$ 640

$4 \times 100 =$ 400

$8 \times 90 =$ 720

(c) $30 \times 3 =$ 90

(d) $40 \times 3 =$ 120

$30 \times 5 =$ 150

$40 \times 4 =$ 160

$30 \times 7 =$ 210

$40 \times 6 =$ 240

$30 \times 8 =$ 240

$40 \times 7 =$ 280

$30 \times 10 =$ 300

$40 \times 9 =$ 360

1)

Complete the fact family for this calculation:

If we know that $2 \times 6 = 12$,
we also know that...

$2 \times 60 = 120$	$120 \div 2 = 60$
$6 \times 2 = 12$	$12 \div 6 = 2$

Can you do the same
for these calculations:

- $3 \times 30 = \square$
- $\square = 4 \times 80$
- $160 \div 2 = \square$

2)



I know that when
multiplying 3×40 , 40 is ten
times bigger than 4, so my
answer will also be ten times
bigger.

Is Saif correct?
Prove it.

3) Erica has written some number sentences about
a fact family, but she's made a mistake.
Find and explain her mistake

$2 \times 8 = 16$	$20 \times 8 = 160$
$8 \times 2 = 16$	$80 \times 2 = 16$
$16 \div 8 = 2$	$160 \div 80 = 3$
$16 \div 2 = 8$	$160 \div 2 = 80$

4)

Chloe has 240 cakes to sell.

Boxes come in different sizes and can hold
different multiples of 10.Which boxes could she use, making sure all
boxes are full and there are no cakes left
over?

5)

True or false? Prove it!

$$5 \times 30 = 3 \times 50$$

6)

Hamza says,



Do you agree? Explain why.

1)

Complete the fact family for this calculation:

If we know that $2 \times 6 = 12$,
we also know that...Can you do the same
for these calculations:

$2 \times 60 = 120$

$60 \times 2 = 120$

$120 \div 60 = 2$

$120 \div 2 = 60$

$3 \times 30 = \square$

$\square = 4 \times 80$

$160 \div 2 = \square$

2)

I know that when
multiplying 3×40 , 40 is ten
times bigger than 4, so my
answer will also be ten times
bigger.Is Saif correct?
Prove it.Saif is correct. I know $3 \times 4 = 12$, so if he has 3×40 then his answer will be ten times bigger because 4 has become ten times bigger.

3)

Erica has written some number sentences about
a fact family, but she's made a mistake.
Find and explain her mistake

$2 \times 8 = 16$	$20 \times 8 = 160$
$8 \times 2 = 16$	$80 \times 2 = 16$
$16 \div 8 = 2$	$160 \div 80 = 3$
$16 \div 2 = 8$	$160 \div 2 = 80$

Erica has made a mistake because she has
put $80 \times 2 = 16$.We know that $8 \times 2 = 16$, and we know
that 80 is 10 times bigger than 8, so the
answer also needs to be 10 times bigger.
The correct answer is $80 \times 2 = 160$.

4)

Chloe has 240 cakes to sell.

Boxes come in different sizes and can hold
different multiples of 10.Which boxes could she use, making sure all
boxes are full and there are no cakes left
over?She could use 10, 20, 30,
40, 60, 80 because 240 is a
multiple of all of these
numbers.

$10 \times 24 = 240$

$20 \times 12 = 240$

$30 \times 8 = 240$

$40 \times 6 = 240$

$60 \times 4 = 240$

$80 \times 3 = 240$

5)

True or false?

Prove it!

$5 \times 30 = 3 \times 50$

True because they are equal.

6)

Hamza says,



Do you agree? Explain why.

Hamza is incorrect because each duck in his
array is worth ten.The correct answer is 20×4 or 40×2 giving
an answer of 80.