



*Creating a whole generation of
kids that are confident in maths*

**MASTERING MULTIPLICATION
AND DIVISION**
PART 1 OF 2

SAMPLE - LESSON 1

**PINK
LEVEL THREE**



**MATHS
AUSTRALIA**

Lesson 1 : Rectangles, Factors And Products

WHAT YOUR STUDENT WILL LEARN

To understand multiplication by building rectangles and finding their area.

LESSON FOCUS

This lesson introduces the foundational concept of multiplication as the building of rectangles. Your student will move beyond additive thinking (like skip counting) to multiplicative thinking. The core idea is that two numbers (factors) can be multiplied to form a rectangle, and the total number of square units inside that rectangle is the area, or the product. This lesson establishes this key vocabulary using concrete blocks to make the concepts tangible.

KEYS FOR TEACHING

The key is to physically build the rectangles.

When you say "three times four," have your student place four 3-blocks as a rectangle so that only three are "across", and four are "up".

The L in the rectangular shape shows the "dimensions."

Counting, adding or fast adding (multiplying) the blocks inside gives the answer, or "product."

YOU'LL KNOW YOUR STUDENT UNDERSTANDS WHEN THEY CAN

Explain that the numbers we multiply are called factors.

Use two factors as the dimensions to build a rectangle.

Find the total number of square units inside the rectangle (the area).

Explain that the answer to a multiplication problem is called the product.

Write a multiplication number sentence for a built rectangle (e.g., $3 \times 4 = 12$).

MATERIALS YOU'LL NEED

Integer Block Kit.

Whiteboard or blank paper.

Coloured pencils or markers.

Grid paper (optional).

Pink Level Three Student Workbook (Worksheets - Lesson 1).

TIPS IF YOUR STUDENT IS STRUGGLING

Focus on smaller rectangles first, like 2×3 .

Model building it very clearly.

Use the across factor (the multiplicand) block colour.

GAMES AND FUN EXTENSION ACTIVITIES

Give your student a product (e.g., 12) and the Integer Block Kit.

Challenge them to become an architect and discover all the different rectangular "buildings" they can design with exactly twelve blocks (i.e., finding all the factor pairs: 1×12 , 2×6 , 3×4).

INTUITIVE - GETTING STARTED



Learning Facilitator: Review skip counting by twos. Say, "We know how to 'fast add' by skip counting. Today, we are going to learn an even faster way called multiplication! We are going to build rectangles to see how it works."

Student: *Participates in the review and listens to the introduction of multiplication.*

CONCRETE - BUILDING IT



Learning Facilitator: Introduce the new vocabulary. Say, "The numbers we multiply are called factors. Let's multiply the factors 3 and 4." Guide your student to build a rectangle using 3-blocks that has 3 and 4 as the factors/ as the dimensions. Then, say, "Let's count these." Once they have counted them, say "Now, let's add these." Once they have added them, say "Now, let's multiply these. The answer, twelve, is called the product." Demonstrate that multiplication simply provides another way to add numbers together - and is faster and more efficient.

Student: *Builds the rectangle with blocks, and counts the total squares, verbalising "Three times four is twelve."*

REPRESENTATIONAL - DRAWING IT



Learning Facilitator: Say, "Let's draw what we just built." Model drawing a 3x4 rectangle on grid paper. "I draw a side of three (3) and a side of four (4). Then I fill it in and I can see there are twelve (12) squares inside." Then, ask your student to build a 2 x 5 rectangle and draw it.

Student: *Watches the model, then draws their own rectangles on grid paper to represent the problems they have built.*

ABSTRACT - WRITING IT



Learning Facilitator: Introduce the x symbol, explaining it means "multiply." Model writing the number sentence $3 \times 4 = 12$. Say, "The factors are three and four. The product is twelve." Guide your student through the workbook pages where they write the number sentence for a given rectangle.

Student: *Listens to the explanation, then writes the multiplication sentences that match the models they've built and drawn.*

VERBAL & COMBINED PRACTICE - TALKING ABOUT IT



Learning Facilitator: Give a problem: "Find the product of the factors two (2) and six (6)." Say, "Show me this problem in all our maths ways. Build it, draw it, write the sentence, and explain what you did using our new words."

Student: *Builds a 2x6 rectangle, draws it, writes $2 \times 6 = 12$, and explains, "The factors are two and six. I built a rectangle. The area, or product, is twelve."*

EXPLICIT INSTRUCTION & REVIEW - WRAPPING UP



Learning Facilitator: Say, "Great work! We learnt that multiplication is about building rectangles. The sides are the factors, and the total squares inside is the area, or the product." Show a 5x3 rectangle. Ask: "What are the factors? What is the product?"

Student: *Recalls the key vocabulary and answers, "The factors are five and three! The product is fifteen!"*

Assessment & Cumulative Review: Pink Level Three Student Workbook (Worksheets 1|1 - 1|6).

PINK LEVEL THREE
STUDENT WORKBOOK

Metric Edition

Student's Name

By Esther White

Scope & Sequence

PINK LEVEL THREE

- 1.....**Rectangles, Factors And Products**
- 2.....**Multiply By Zero And One**
- 3.....**Skip Count By Two, Five, Ten**
- 4.....**Multiply By Two**
- 5.....**Multiply By Ten**
- 6.....**Multiply By Five**
- 7.....**Area Of A Rectangle And Square**
- 8.....**Solve For An Unknown**
- 9.....**Skip Count By Nine**
- 10.....**Multiply By Nine**
- 11.....**Skip Count By Three**
- 12.....**Multiply By Three**
- 13.....**Skip Count By Six**
- 14.....**Multiply By Six**
- 15.....**Skip Count By Four**
- 16.....**Multiply By Four**
- 17.....**Skip Count By Eight**
- 18.....**Multiply By Eight**
- 19.....**Skip Count By Seven**
- 20.....**Multiply By Seven**
- 21.....**Factoring, Coins in a Dollar**
- 22.....**Prime And Composite Numbers**
- 23.....**Place Value Through Millions (g in kg)**
- 24.....**Kilometre, Kilogram, And Tonne**
- 25.....**Rounding To Ten, Hundreds, Thousands**
- 26.....**Multi-Digit Multiplication**

27.....Multi-Digit Multiplication (2 digits x 2 digits)

28.....Double Digit with Regrouping

29.....Multi-Digit Multiplication, Regrouping

30.....More Multiple Digit Multiplication

Additional Resources

0 - 100 Number Chart

Multiplication Fact Sheet

Completion Checklist

Check off each lesson as you complete it.

PINK LEVEL THREE

- 1 - Rectangles, Factors And Products
- 2 - Multiply By Zero And One
- 3 - Skip Count By Two, Five, Ten
- 4 - Multiply By Two
- 5 - Multiply By Ten
- 6 - Multiply By Five
- 7 - Area Of A Rectangle And Square
- 8 - Solve For An Unknown
- 9 - Skip Count By Nine
- 10 - Multiply By Nine
- 11 - Skip Count By Three
- 12 - Multiply By Three
- 13 - Skip Count By Six
- 14 - Multiply By Six
- 15 - Skip Count By Four
- 16 - Multiply By Four
- 17 - Skip Count By Eight
- 18 - Multiply By Eight
- 19 - Skip Count By Seven
- 20 - Multiply By Seven
- 21 - Factoring, Coins in a Dollar
- 22 - Prime And Composite Numbers (X 12)
- 23 - Place Value Through Millions (g in kg)
- 24 - Kilometre, Kilogram, And Tonne
- 25 - Rounding To Ten, Hundreds, Thousands
- 26 - Multi-Digit Multiplication

1 2 3 4 5 6 7 8

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27 - Multi-Digit Multiplication (2 digits x 2 digits)

28 - Double Digit with Regrouping

29 - Multi-Digit Multiplication, Regrouping

30 - More Multiple Digit Multiplication

1 2 3 4 5 6

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Additional Resources

0 - 100 Number Chart

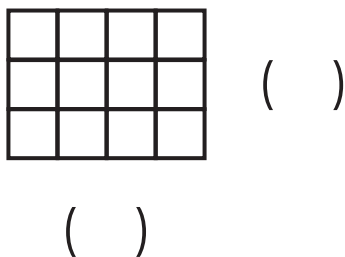
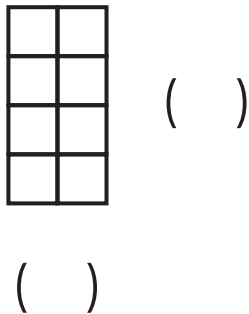
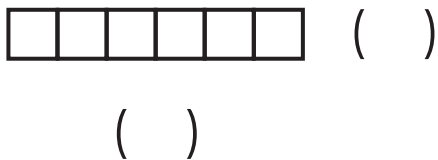
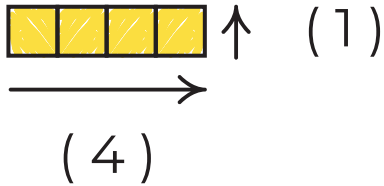
Multiplication Fact Sheet

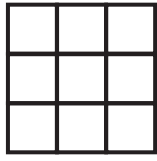
Rectangles, Factors And Products

Multiplication is really nothing more than multiple addition, where we count a number a certain number of times. For example, $2 + 2 + 2 + 2$ is the same as $(2) (4)$ or 2×4 , which is two counted four times and equal to eight. Every time we multiply we can build a rectangle with two dimensions (sometimes called factors)- one 'across' and one 'up'.

Look at the rectangles below. Build them, then write the length of the sides in the brackets shown as you draw an arrow to show the directions you have counted, across and up. Colour the blocks the colour of the integer block that is the across factor.

Example:





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()



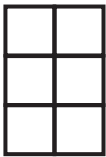
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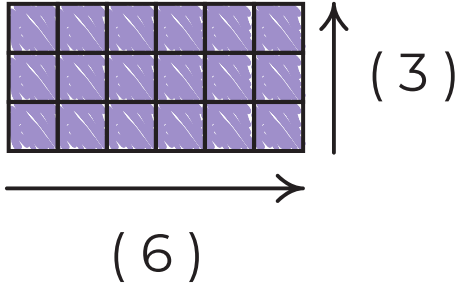
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Rectangles, Factors And Products

Look at the blocks below and build as a rectangle rather than a long line. Draw the rectangle, colour it with the correct colour then write the length of the sides in the brackets. Say the dimensions as you draw an arrow across and up.

Example:



Say 'six across, three up'
'six counted three times'
'six multiplied three times'



$$\square\square\square + \square\square\square$$

$$\square\square + \square\square + \square\square + \square\square$$

$$\square\square\square\square\square\square + \square\square\square\square\square\square + \square\square\square\square\square\square$$


$$\square + \square + \square + \square$$

Rectangles, Factors And Products

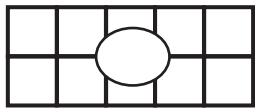
Look at the rectangles below. Build then colour them with the correct across colour, then write the length of the sides in the brackets. Say the directions you have counted. Write the number of square units you have in the circle inside the rectangle.

In maths we can use various maths symbols to communicate this multiplication question: using one or two brackets, using an 'x' fast addition symbol (also called multiplication symbol), and also using a floating dot. Write the following as maths sentences using these various symbols.

Example:

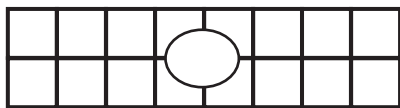


$(2) (1) = 2$
 $2 \times 1 = 2$
 $2 \cdot 1 = 2$

$$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array}$$



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()



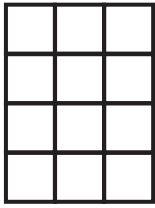
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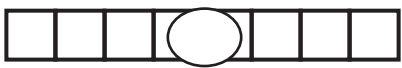
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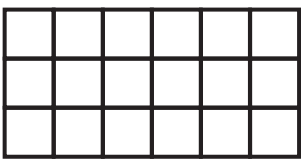
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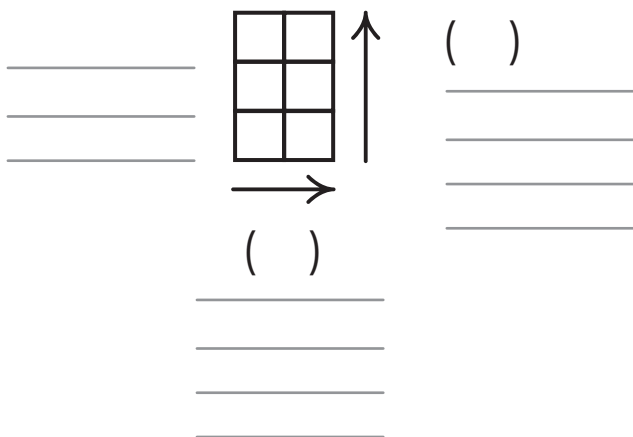
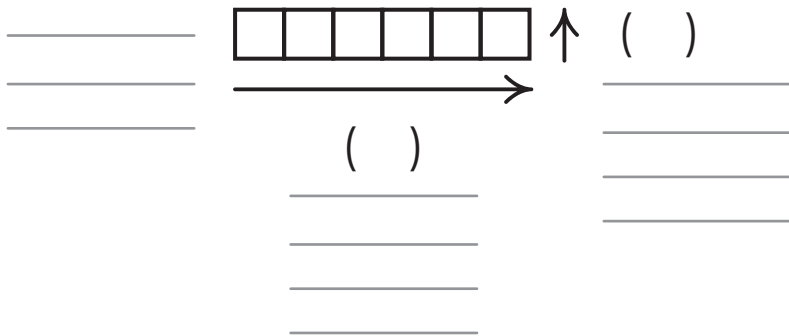
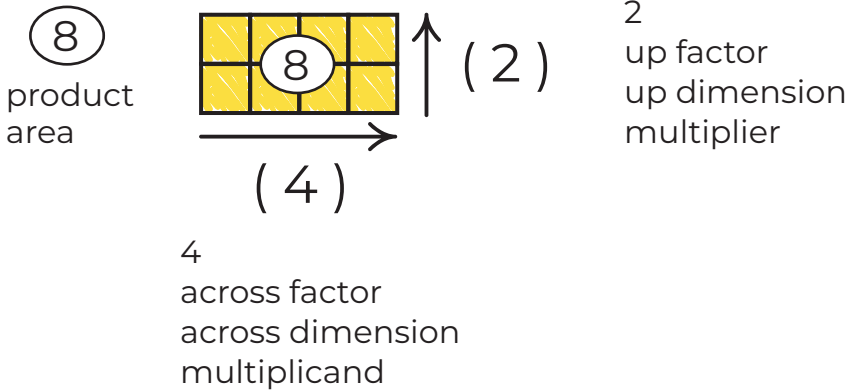
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Rectangles, Factors And Products

Look at the rectangles below. Count the across factor (across dimension) and record it in the 'across' brackets. Count the up factor (up dimension) and record it in the 'up' brackets. Write the total number of square units, called the product or area, in the circle in the middle.

In maths we also call the across factor the multiplicand and the up factor the multiplier. The number of square units is then called the area. Write the different names we can use for each part of the multiplication rectangle in the correct spaces.

Example:



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↑

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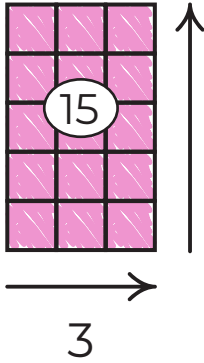
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Rectangles, Factors And Products

Draw and colour rectangles with the following dimensions and label them as you find the number of square units contained within. Write your answer using maths symbols.

Example:



Multiplicand = 3
 Multiplier = 5
 Area (product) = 15

$$3 \times 5 = 15$$

$$3 (5) = 15$$

$$(3)(5) = 15$$

$$3 \cdot 5 = 15$$

$$\begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array}$$

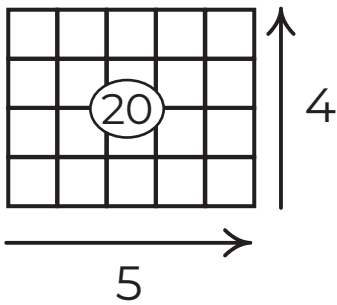
Multiplicand 8
 Multiplier 3

Across factor 5
 Up factor 2

Across dimension 4
 Up dimension 5

Colour the following rectangles. Identify the factors and write your answers in at least two different ways as multiplication questions.

Example:



$$5 \times 4 = 20$$

$$(5) (4) = 20$$

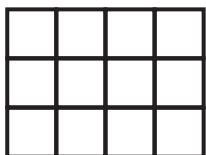
$$5 (4) = 20$$

$$5 \cdot 4 = 20$$

5

$$\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array}$$



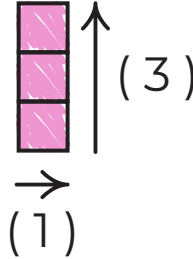
Rectangles, Factors And Products

Look at the rectangles below. Count the across and up distance / dimensions / factors, and record them. Write the various ways you can show these using maths symbols and identify the multiplier and multiplicand in each.

Example:

$$\begin{aligned} (1) (3) &= 3 \\ 1 \times 3 &= 3 \\ 1 \cdot 3 &= 3 \end{aligned}$$

$$\begin{array}{r} 1 \\ \times 3 \\ \hline 3 \end{array}$$



Up factor = 3
Up dimension = 3
Multiplier = 3

Across factor = 1
Across dimension = 1
Multiplicand = 1

$$\begin{aligned} (\quad) (\quad) &= \underline{\quad} \\ \underline{\quad} \times \underline{\quad} &= \underline{\quad} \\ \underline{\quad} \cdot \underline{\quad} &= \underline{\quad} \end{aligned}$$



Multiplicand = _____
Multiplier = _____
Product = _____

$$\begin{aligned} (\quad) (\quad) &= \underline{\quad} \\ \underline{\quad} \times \underline{\quad} &= \underline{\quad} \\ \underline{\quad} \cdot \underline{\quad} &= \underline{\quad} \end{aligned}$$



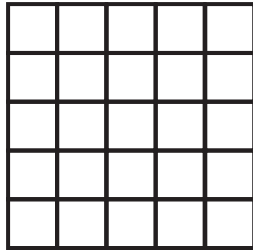
Across factor = _____
Up factor = _____
Area = _____

$$\begin{aligned} (\quad) (\quad) &= \underline{\quad} \\ \underline{\quad} \times \underline{\quad} &= \underline{\quad} \\ \underline{\quad} \cdot \underline{\quad} &= \underline{\quad} \end{aligned}$$



Multiplicand = _____
Multiplier = _____
Product = _____

$$\begin{array}{l} (\underline{\quad}) (\underline{\quad}) = \underline{\quad} \\ \underline{\quad} \times \underline{\quad} = \underline{\quad} \\ \underline{\quad} \cdot \underline{\quad} = \underline{\quad} \end{array}$$

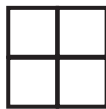


Multiplicand = _____

Multiplier = _____

Product = _____

$$\begin{array}{l} (\underline{\quad}) (\underline{\quad}) = \underline{\quad} \\ \underline{\quad} \times \underline{\quad} = \underline{\quad} \\ \underline{\quad} \cdot \underline{\quad} = \underline{\quad} \end{array}$$

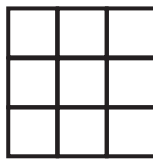


Multiplicand = _____

Multiplier = _____

Product = _____

$$\begin{array}{l} (\underline{\quad}) (\underline{\quad}) = \underline{\quad} \\ \underline{\quad} \times \underline{\quad} = \underline{\quad} \\ \underline{\quad} \cdot \underline{\quad} = \underline{\quad} \end{array}$$



Across dimension = _____

Up dimension = _____

Area = _____

$$\begin{array}{l} (\underline{\quad}) (\underline{\quad}) = \underline{\quad} \\ \underline{\quad} \times \underline{\quad} = \underline{\quad} \\ \underline{\quad} \cdot \underline{\quad} = \underline{\quad} \end{array}$$



Multiplicand = _____

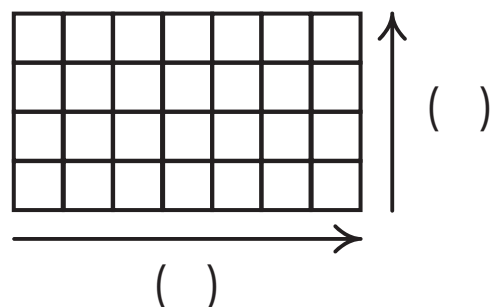
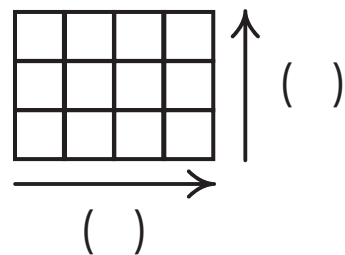
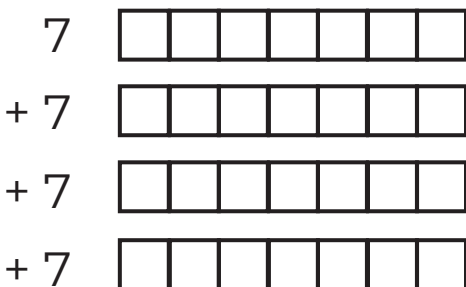
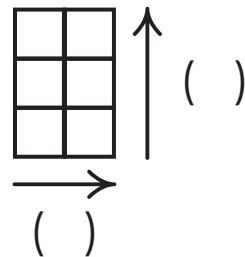
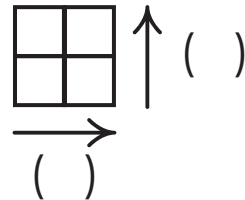
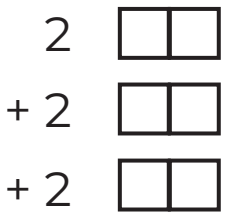
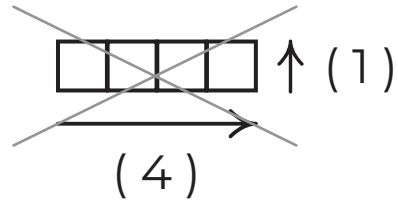
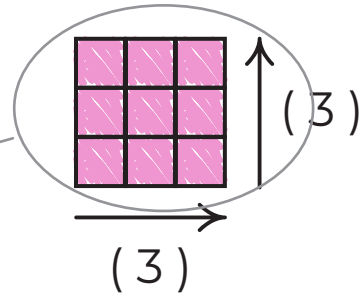
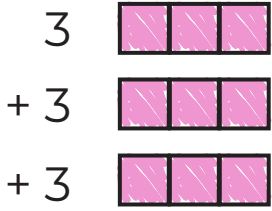
Multiplier = _____

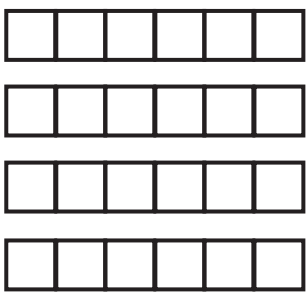
Product = _____

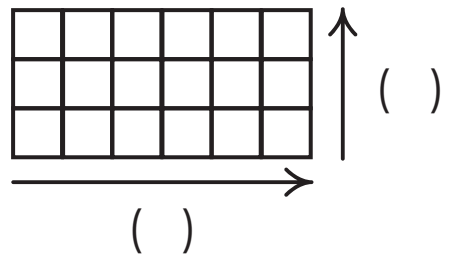
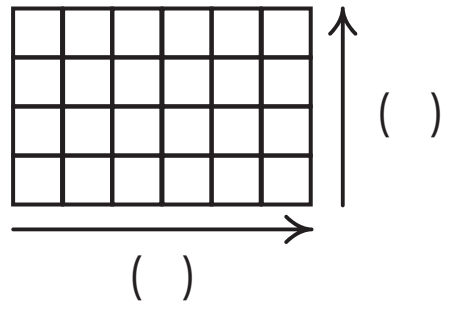
Rectangles, Factors And Products - Cumulative Review

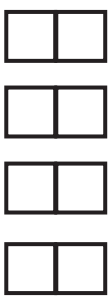
Look at the rectangles below. Write the factors then draw a line from the addition example on the left, to the correct multiplication answer on the right. Circle the correct answer, colour it in and cross out the wrong answer.

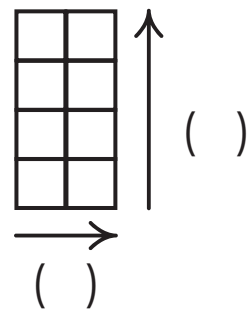
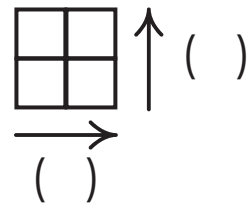
Example:

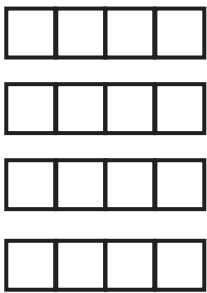


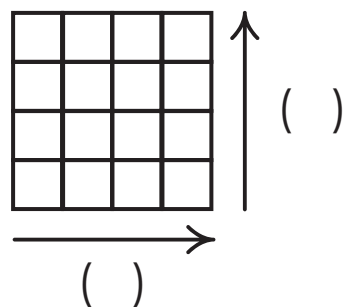
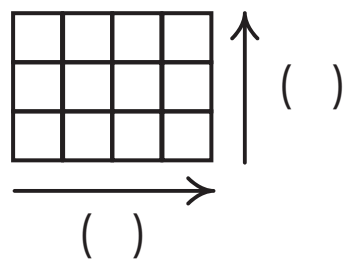
$$\begin{array}{r}
 6 \\
 + 6 \\
 + 6 \\
 + 6
 \end{array}$$




$$\begin{array}{r}
 2 \\
 + 2 \\
 + 2 \\
 + 2
 \end{array}$$




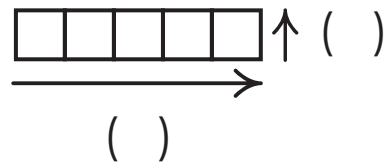
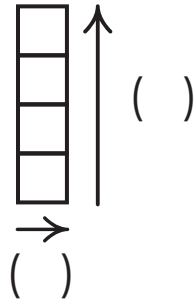
$$\begin{array}{r}
 4 \\
 + 4 \\
 + 4 \\
 + 4
 \end{array}$$




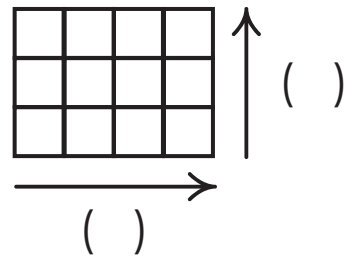
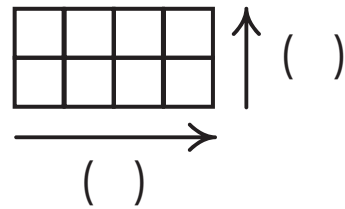
Rectangles, Factors And Products - Cumulative Review

Match the addition example on the left to the correct multiplication rectangle on the right. Write the factors as you cross out the wrong answer and colour the right answer.

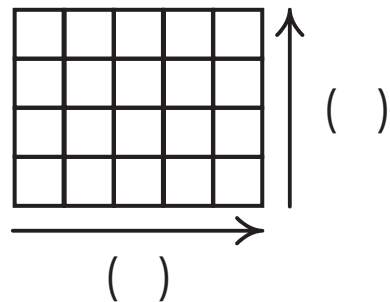
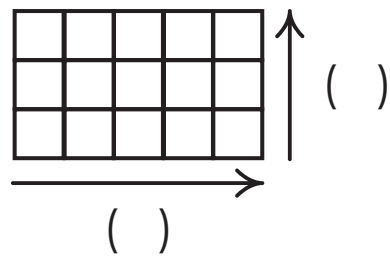
$$\begin{array}{r} 1 \\ + 1 \\ + 1 \\ + 1 \end{array}$$

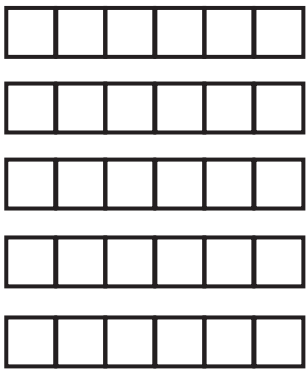


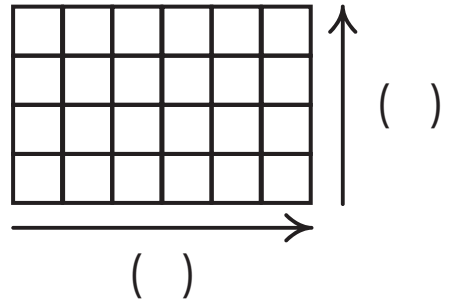
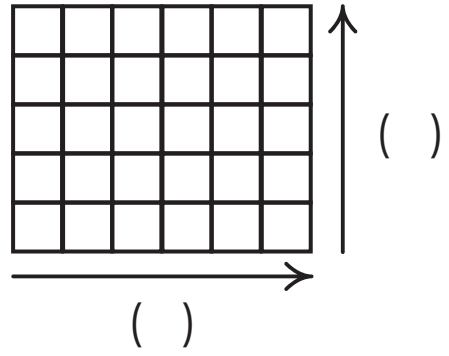
$$\begin{array}{r} 4 \\ + 4 \\ + 4 \end{array}$$

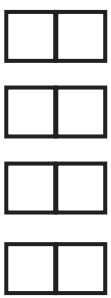


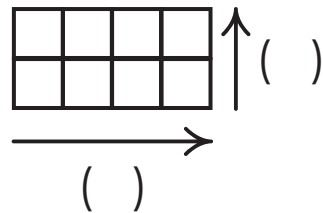
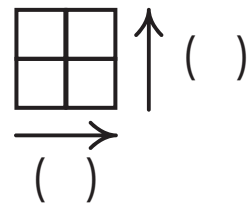
$$\begin{array}{r} 5 \\ + 5 \\ + 5 \\ + 5 \end{array}$$




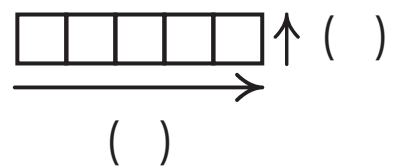
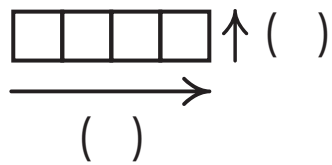
$$\begin{array}{r}
 6 \\
 + 6 \\
 + 6 \\
 + 6 \\
 + 6
 \end{array}$$




$$\begin{array}{r}
 2 \\
 + 2 \\
 + 2 \\
 + 2
 \end{array}$$




$$\begin{array}{r}
 1 \\
 + 1 \\
 + 1 \\
 + 1 \\
 + 1
 \end{array}$$






*Creating a whole generation of
kids that are confident in maths*

PINK LEVEL THREE

FOCUS: Multiplication

Pre-requisite: The student can add single and multiple digit numbers and understands place value.

- **Rectangles, Area, Product**
- **Skip Counting**
- **Single Digit Multiplication**
- **Factoring**
- **Money Introduction**
- **Measurement**
- **Rounding**
- **Place Value to Millions**
- **Multiple Digit Multiplication**
- **Prime and Composite Numbers**

The **Maths Australia** strategy involves three components:

Video and written instruction for the teacher and student, hands-on manipulatives to make abstract maths concepts understandable, and student workbooks to provide practice and review.

Watch the video until you understand the new topic, read the instruction material to reinforce your own learning, then use the manipulatives to teach understanding. Relate the lesson content to real life questions, have the student draw accurate representations, and only then move to the abstract squiggles on the piece of paper.

The Student Workbook will enable you to ensure mastery before you progress your student to the next lesson, confident of what they have learnt.

We look forward to your student's outstanding success as you teach them the way they learn!



PINK LEVEL THREE Student Workbook

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