MATH PRACTICE | Level 1 of 3 · equal groups

Equal Groups Mystery boxes

Name: _____

Date: _____



Equal groups = the **same** number in each group.

equal groups
4, 4 and 4: all the same
3 groups of 4

NOT equal
3, 5 and 4: not the same
move one to fix it!

Watch the lesson first!

A Are these equal groups? Circle yes or no. ____ / 4

1 

yes no

2 

no yes

3 

yes no

4 

no yes

B Count. How many groups? How many in each? ____ / 8

1  ____ groups of ____

2  ____ groups of ____

3  ____ groups of ____

4  ____ groups of ____

C Draw the dots to make equal groups. ____ / 4

1 Draw 3 groups of 2 dots.

2 Draw 2 groups of 4 dots.

Foofee's tip: Count every group. If all the numbers are the same, the groups are equal.

MATH PRACTICE | Level 2 of 3 · add · times

Add Them Up! The times sign

Name: _____

Date: _____

add them up
add the same number again and again
4 + 4 + 4 = 12

the times sign
the short way to write it
3 × 4 = 12

3 = how many groups 4 = how many in each 12 = how many in all

A Write the adding and the times for each picture. ____ / 8

1 

add ____ + ____ + ____ = ____

times ____ × ____ = ____

2 

add ____ + ____ = ____

times ____ × ____ = ____

3 

add ____ + ____ + ____ + ____ = ____

times ____ × ____ = ____

4 

add ____ + ____ = ____

times ____ × ____ = ____

B Draw a line from the adding to the times that means the same. ____ / 6

5 + 5 + 5 ●	● 3 × 10
2 + 2 + 2 + 2 ●	● 2 × 6
6 + 6 ●	● 5 × 4
7 + 7 ●	● 3 × 5
10 + 10 + 10 ●	● 2 × 7
4 + 4 + 4 + 4 + 4 ●	● 4 × 2

C Skip count to find the answer. ____ / 4

1 2 × 5 = _____ *(count by 5s)*

2 4 × 2 = _____ *(count by 2s)*

3 3 × 10 = _____ *(count by 10s)*

4 5 × 2 = _____ *(count by 2s)*

MATH PRACTICE | Level 3 of 3 · Challenge

Arrays & Turn It Around

Name: _____

Date: _____

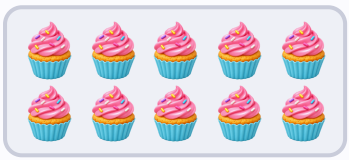


array
things in rows and columns
3 rows of 4 = 3 × 4 = 12

turn it around
swap the numbers: same answer!
3 × 4 = 4 × 3 = 12

A Look at each array. Write the rows and the times. ___ / 6

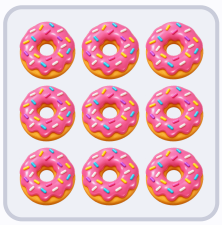
1



____ rows of ____

____ × ____ = ____

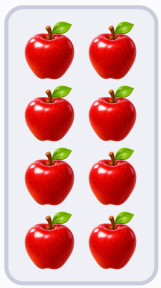
2



____ rows of ____

____ × ____ = ____

3



____ rows of ____

____ × ____ = ____

B Turn it around! Write the missing number. ___ / 4

1 2 × 7 = 14, so 7 × 2 = _____

2 5 × 3 = 15, so 3 × 5 = _____

3 4 × 6 = 6 × _____

4 10 × 3 = _____ × 10

C Mystery box stories: write the times and the answer. ___ / 6

1  4 boxes, with 3 cookies in each. How many cookies? ____ × ____ = ____

2  An egg box has 2 rows of 6 eggs. How many eggs? ____ × ____ = ____

3  5 plates, with 2 apples on each. How many apples? ____ × ____ = ____

D How did I do? Colour the stars.

I can tell if groups are **equal**. ☆ ☆ ☆

I can **add** equal groups: 4 + 4 + 4. ☆ ☆ ☆

I know **3 × 4** means 3 groups of 4. ☆ ☆ ☆

I can read an **array** and turn it around. ☆ ☆ ☆



Super job!
You opened all the boxes!

TOTAL _____ / 50

FOR GROWN-UPS · Answer key & tips

Answer Key Equal groups, arrays & repeated addition

The video

Page 1 · equal groups (16)

A · Equal? (4)

1 yes (3, 3, 3) 2 no (2, 4) 3 yes (5, 5)
4 no (1, 3, 2)

B · Groups of (8: 1 point each blank)

1 2 groups of 3 2 5 groups of 2
3 4 groups of 2 4 2 groups of 6

C · Draw (4: 2 points each)

2 dots in each of the 3 boxes; 4 dots in each of the 2 boxes.

Page 2 · add them up (18)

A · Adding and times (8: 1 point each line)

1 2+2+2 = 6 · 3 × 2 = 6 2 5+5 = 10 · 2 × 5 = 10
3 3+3+3+3 = 12 · 4 × 3 = 12
4 4+4 = 8 · 2 × 4 = 8

B · Match (6)

5+5+5 → 3 × 5 2+2+2+2 → 4 × 2 6+6 → 2 × 6
7+7 → 2 × 7 10+10+10 → 3 × 10
4+4+4+4+4 → 5 × 4

C · Skip count (4)

1 10 2 8 3 30 4 10

Page 3 · arrays & turn it around (16)

A · Arrays (6: 1 point each line)

1 2 rows of 5 · 2 × 5 = 10
2 3 rows of 3 · 3 × 3 = 9
3 4 rows of 2 · 4 × 2 = 8

B · Turn it around (4)

1 14 2 15 3 4 4 3

C · Stories (6: 1 for the times, 1 for the answer)

1 4 × 3 = 12 2 2 × 6 = 12 3 5 × 2 = 10

3 × 4, 6 × 2 and 2 × 5 are also right: the answer stays the same.

Tips for teaching

- **Watch first.** Scan the QR code: the mystery boxes show each step with real treats.
- **Use real things.** Put the same number of spoons, coins or crackers on a few plates.
- **Say it three ways:** "3 groups of 4", "4 + 4 + 4", "3 × 4". They all make 12.
- **The first number is the groups** (orange in the video), the second is how many in each (blue).
- **Hunt for arrays:** egg boxes, muffin trays, windows, ice-cube trays, buttons on a remote.
- **Turn it around:** rotate a real tray; 3 × 4 and 4 × 3 still make 12.

Score guide (out of 50)

44-50 · Multiplication Master! Try making arrays with LEGO bricks.

32-43 · Great work! Redo the level with the lowest score.

0-31 · Good start! Watch the video again and redo Level 1.