LESSON MAKER PRO

Equal Expression Match

Build equations with expressions that have the same value.

GRADE 4 · 4.CE.2.c

4.CE.2.c "Create an equation using addition, subtraction, multiplication, and division to represent the relationship between equivalent mathematical expressions (e.g., 4 × 3 = 2 × 6; 10 + 8 = 36 ÷ 2; 12 × 4 = 60 - 12)."

NAME _____ DATE _____

SAME VALUE, EQUAL SIGN

An equal sign means the expressions on both sides have the same value. Find the value of each expression, then write an equation that shows they are equal.

WORKED EXAMPLE

Write an equation for 18 + 9 and 3 × 9.

1. Add: 18 + 9 = 27.
2. Multiply: 3 × 9 = 27.
3. Both expressions have a value of 27.

Answer: 18 + 9 = 3 × 9

PRACTICE 6 problems

1 Write an equation for 12 + 4 and 2 × 8.

ANSWER _____

2 Write an equation for 56 / 7 and 4 + 4.

ANSWER _____

3 Write an equation for 11 × 2 and 30 - 8.

ANSWER _____

4 Write an equation for 63 / 7 and 10 - 1.

ANSWER _____

5 Write an equation for 16 + 20 and 72 / 2.

ANSWER _____

6 Write an equation for 54 - 12 and 7 × 6.

ANSWER _____

APPLY IT Show your work

1 At a robotics event, 28 batteries are packed equally into 7 supply boxes. At another table, 2 teams each have 2 robots. Write an equation that shows the number of batteries in each box equals the number of robots.

WORK SPACE

ANSWER _____

2 A music app has 40 songs in a playlist. It removes 16 songs. Another playlist has 4 groups of 6 songs. Write an equation that shows the remaining songs equal the songs in the groups.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Write one equation that connects all of these equivalent expressions: 45 - 21, 4 × 6, and 48 / 2.

WORK SPACE AND ANSWER

ANSWER KEY

Equal Expression Match

GRADE 4 · 4.CE.2.c

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write an equation for 12 + 4 and 2 × 8.	**12 + 4 = 2 × 8**
2	Write an equation for 56 / 7 and 4 + 4.	**56 / 7 = 4 + 4**
3	Write an equation for 11 × 2 and 30 - 8.	**11 × 2 = 30 - 8**
4	Write an equation for 63 / 7 and 10 - 1.	**63 / 7 = 10 - 1**
5	Write an equation for 16 + 20 and 72 / 2.	**16 + 20 = 72 / 2**
6	Write an equation for 54 - 12 and 7 × 6.	**54 - 12 = 7 × 6**

PART 2 · APPLY IT

1. **28 / 7 = 2 × 2** Divide 28 by 7 to get 4. Multiply 2 by 2 to get 4, so the expressions are equal.
2. **40 - 16 = 4 × 6** Subtract 16 from 40 to get 24. Multiply 4 by 6 to get 24, so the expressions are equal.

CHALLENGE

45 - 21 = 4 × 6 = 48 / 2

Accept equations with the sides reversed. Accept any correct equation that uses the stated expressions and shows equal values.