Equivalent Ratios — Homework

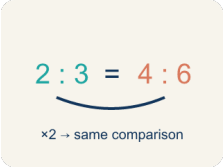
Lesson 3-9 • Standard 6.AT.3

Name: _____ **Period:** _____ **Date:** _____

Today's Goals

Content: I can find and check equivalent ratios using multiplication and division.
Language: I can explain my reasoning using the words equivalent ratios, rate, proportion, and simplify.

Key Words



Equivalent Ratios (Razones equivalentes) — Ratios that compare quantities in the same relationship.



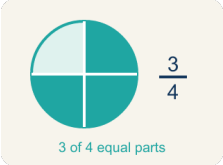
Ratio (Razón) — A way to compare two amounts, like 3 to 2.



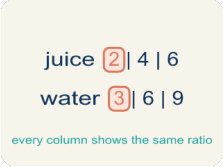
Rate (Tasa) — A ratio comparing two amounts with different units, like miles per hour.



Proportion (Proporción) — A math sentence saying two ratios are equal.



Simplify (Simplificar) — To write a ratio with smaller numbers that still compares the same way. 6:8 and 3:4 are the same ratio.



Ratio table (Tabla de razones) — A table of equal ratios that shows a pattern.

Practice

Show your work. Use the blank space under each problem.

1. Which ratio is equivalent to 2:5?

A. 2:10
B. 3:6

C. 4:10
D. 5:2

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2. A recipe uses 4 eggs for every 6 cups of flour. Which ratio is equivalent?

A. 2:3
B. 4:3
C. 6:4
D. 8:10

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3. Sort these ratios — which are equivalent to 3:4 and which are not?

Groups: Equivalent to 3:4 | NOT Equivalent to 3:4

- 6:8 → _____
- 9:12 → _____
- 15:20 → _____
- 3:5 → _____
- 4:3 → _____
- 6:12 → _____

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4. Marcus earns $45 for every 3 hours of work. How much does he earn in 8 hours?

A. $90
B. $105
C. $120
D. $135

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5. Find the missing value that makes each pair of ratios equivalent.

Ratio 1	Ratio 2	Missing Value
3:7	9:?	
5:8	?:24	
4:6	?:3	

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6. Spot the Common Mistake — Simplifying a Ratio

Step 1 (Set up the ratio): A student wants to write 12:18 in simplest form.
Step 2 (Find the common factor): Both 12 and 18 can be divided by 6.
Step 3 (Divide each part): 12 ÷ 6 = 2 and 18 ÷ 3 = 6, so they wrote 2:6.
Step 4 (Answer): 12:18 simplifies to 2:6

Which step has the mistake? Explain and fix it:

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7. Chef Montoya's dressing uses 3 spoons of oil to 4 spoons of vinegar (3:4). Which recipe card shows an EQUIVALENT ratio?

A. 3:8
B. 4:3
C. 6:7
D. 9:12

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8. The lemonade station mixes 5 cups of lemon juice to 2 cups of sugar (5:2). Which batch keeps the SAME taste?

A. 5:4

B. 7:4
C. 10:6
D. 15:6

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9. Match each recipe ratio to a batch that tastes exactly the same.

Item	Answer choices
____ 2:3	D. 10:12
____ 3:5	C. 12:21
____ 4:7	B. 9:15
____ 5:6	A. 8:12

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10. The recipe ratio is 2 cups flour to 5 cups milk (2:5). Sort each batch: does it taste the same (equivalent) or not?

Groups: Equivalent to 2:5 | NOT Equivalent to 2:5

- 4:10 → _____
- 6:15 → _____
- 8:20 → _____
- 4:9 → _____
- 2:7 → _____
- 5:2 → _____
