



GRADE 6 · RATIOS & PROPORTIONAL RELATIONSHIPS · HOMEWORK

EQUIVALENT RATIOS

Today's goal: I can use equivalent ratios to represent the relationship between two quantities.



Pick your peppers!

Everyone does Mild & Medium. Then climb as high as you can.



Mild

Tan the Turtle



Medium

Digit the Fox



Spicy

Blaze the Dragon

WATCH MR DJ SOLVE

Is 2:7 equivalent to 8:28? Show how you know.

1 $2 \times 4 = 8$, $7 \times 4 = 28$.

Answer: **Yes — $\times 4$ on both**



REMEMBER A shelf ratio is 3 novels : 2 comics. Make an equivalent ratio by scaling **both parts by the same number**: $\times 2 \rightarrow 6:4$, $\times 3 \rightarrow 9:6$. To check two ratios are equivalent, reduce both to lowest terms and compare.



FAMILY CORNER

No need to remember this math yourself! Ask your student to teach you Mr DJ's example, then try the first Mild problem together.



MILD

Tan the Turtle: Slow and steady. Warm up!

1 Write a ratio equivalent to **4:5** by multiplying both parts by 3.

Answer

2 Write a ratio equivalent to **12:18** by dividing both parts by 6.

Answer



OOPS ALERT

Careful on #1! Blaze spotted the slip Mr DJ sees most: Scaled only one part.



🔊 🔊 🔊 MEDIUM

Digit the Fox: Stretch your brain.

- 3 Complete the ratio table for **pencils : cost = 3 : 2** at 6, 9, and 12 pencils.

Pencils	Cost
3	2
6	
9	
12	

Answer

- 4 A smoothie uses **4 parts fruit to 1 part yogurt**. How much yogurt is needed for **20 parts fruit**? Use equivalent ratios.

Answer

- 5 Write **two** ratios equivalent to **6:9**.

Answer



🔥 🔥 🔥 SPICY

Blaze the Dragon: Bring the heat!

- 6 Are **9:12** and **6:8** equivalent? Show your reasoning.

Answer

- 7 Sam says **5:8** and **10:15** are equivalent. Is he right? Prove it.

Answer



How did this sheet feel?

☐

Easy for me

☐

Just right

☐

Made me think

Stuck? Watch Mr DJ explain it

Step-by-step video lessons on YouTube: [youtube.com/@MathWithMrDJ](https://www.youtube.com/@MathWithMrDJ)

Brain break: daily puzzles

Three new math puzzles every day, free:
puzzles.mathwithmrdj.com