LESSON MAKER PRO

Ratio Remix

Use equivalent ratios to find missing amounts.

GRADE 6 · 6.PR.A.3

6.PR.A.3 "Use ratio and rate reasoning to solve mathematical and real-world problems (including but not limited to percent, measurement conversion, and equivalent ratios) using a variety of models, including tables of equivalent ratios..."

NAME _____ DATE _____

KEEP THE RATIO

Equivalent ratios describe the same relationship. Multiply or divide both amounts by the same number to find a missing value.

WORKED EXAMPLE

This table shows a game's badge and point totals. How many points go with 12 badges?

Badges	Points
4	10
12	?

1. 12 / 4 = 3, so the badge amount triples.
2. 10 x 3 = 30, so the point amount triples too.

Answer: 30 points

PRACTICE 4 problems

1 2 stickers cost $7. What do 6 stickers cost?

ANSWER _____

2 5 photos use 11 MB. How many MB do 15 photos use?

ANSWER _____

3 The ratio of blue to red beads is 7:9. If there are 21 blue beads, how many are red?

ANSWER _____

4 A toy car completes 16 laps in 2 minutes. At the same rate, how many laps will it complete in 7 minutes?

ANSWER _____

APPLY IT Show your work

1 A game character earns 14 coins every 5 quests. At the same rate, how many coins will the character earn after 20 quests?

WORK SPACE

ANSWER _____

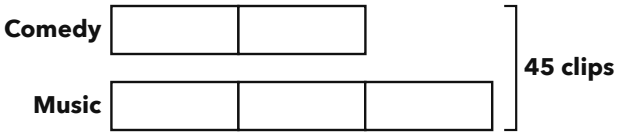
2 A pixel-art design uses 13 purple blocks for every 6 green blocks. How many purple blocks does it need for 24 green blocks?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The tape shows the ratio of comedy clips to music clips in a playlist. There are 45 clips in all. How many clips of each type are there? Explain how you used the tape.



WORK SPACE AND ANSWER

ANSWER KEY

Ratio Remix

GRADE 6 · 6.PR.A.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	2 stickers cost $7. What do 6 stickers cost?	**$21**
2	5 photos use 11 MB. How many MB do 15 photos use?	**33 MB**
3	The ratio of blue to red beads is 7:9. If there are 21 blue beads, how many are red?	**27 red beads**
4	A toy car completes 16 laps in 2 minutes. At the same rate, how many laps will it complete in 7 minutes?	**56 laps**

PART 2 · APPLY IT

1. **56 coins** 20 quests is 4 times 5 quests. Multiply 14 coins by 4.
2. **52 purple blocks** 24 green blocks is 4 times 6 green blocks. Multiply 13 purple blocks by 4.

CHALLENGE

18 comedy clips and 27 music clips. The tape has 5 equal parts, so each part is 45 / 5 = 9 clips. Comedy has 2 parts, or 18 clips, and music has 3 parts, or 27 clips.

Accept equivalent multiplication, division, or unit-rate methods. For the challenge, look for 5 equal parts of 9 clips each.