Ratios, Rates & Proportions

Free worksheet · Grades 6–8 · Fix the mistake from our video

Name _____ Date _____

THE MISTAKE Scaling only part of a recipe or rate: if 4 cups serve 6, 9 people do not need 7 cups.

THE FIX Find the rate first: 4 cups for 6 people is 2/3 cup per person. 9 people × (2/3 cup per person) = 6 cups. Same idea for travel: time = distance ÷ speed, so 180 miles ÷ 60 mph = 3 hours.

1. A turkey roasts about 15 minutes per pound. About how long for 20 lb?
2. Same rate. About how long for a 12 lb turkey?
3. 4 cups of stuffing serve 6. How many cups for 9 people?
4. Split 24 in the ratio 3 : 5.
5. 4 notebooks cost $12. Cost of 1?
6. A car goes 150 miles in 3 hours. What was the average speed?
7. 2 cups flour for every 3 cups milk. Flour for 9 cups milk?
8. 5 pens cost $3.50. Cost of 1?
9. Map scale 1 : 50. A 4 cm line is how long for real?
10. Solve: x/8 = 3/4
11. Solve: 6/x = 9/12
12. 45 mph for 2.5 hours. Distance?

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Answer key

1. A turkey roasts about 15 minutes per pound. About how long for 20 lb? → **about 5 hours**
2. Same rate. About how long for a 12 lb turkey? → **about 3 hours**
3. 4 cups of stuffing serve 6. How many cups for 9 people? → **6 cups**
4. Split 24 in the ratio 3 : 5. → **9 and 15**
5. 4 notebooks cost $12. Cost of 1? → **$3**
6. A car goes 150 miles in 3 hours. What was the average speed? → **50 mph**
7. 2 cups flour for every 3 cups milk. Flour for 9 cups milk? → **6 cups**
8. 5 pens cost $3.50. Cost of 1? → **$0.70**
9. Map scale 1 : 50. A 4 cm line is how long for real? → **200 cm (2 m)**
10. Solve: x/8 = 3/4 → **x = 6**
11. Solve: 6/x = 9/12 → **x = 8**
12. 45 mph for 2.5 hours. Distance? → **112.5 miles**

Got one wrong? Find the step where it went off track, then redo it. Every mistake you fix is a rep.

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