



Ratio & rate reasoning

GRADE 6 MATH

Name _____

Date _____

Do this on your own — the worked example shows what to do. Show your thinking; final answers in the boxes. One skill: **ratio and rate reasoning**.

WORKED EXAMPLE

A cyclist rides 12 km in 2 hours. To find the distance in 5 hours, reason with the rate: speed = $12 \div 2 = 6$ km/h; distance = $6 \times 5 = 30$ km. Find the amount for one, then scale.

1. 4 markers cost \$8. What is the cost of **9 markers**?

FLUENCY

Show your thinking

Answer

2. A tap fills **3 liters in 4 minutes**. How many liters in **12 minutes**?

FLUENCY

Show your thinking

Answer

3. A table shows **5 stickers cost \$2.50**. What is the cost of **8 stickers**?

FLUENCY

Show your thinking

Answer

4. A recipe for **8 cookies** uses **3 cups of flour**. How much flour for **20 cookies**?

APPLICATION

Show your thinking

Answer

5. A runner runs **15 km in 3 hours**. At the same rate, how far in **5 hours**?

APPLICATION

Show your thinking

Answer

6. **4 scoops of fertilizer** feed **6 plants**. How many scoops for **15 plants**?

APPLICATION

Show your thinking

Answer

7. Store A sells 6 cans for \$9. Store B sells 10 cans for \$14. Which is the **better buy per can**? Justify.

REASONING

Show your thinking

Answer

8. Mix A is 4 cups water : 1 cup syrup. Mix B is 6 cups water : 2 cups syrup. Which is **sweeter** (more syrup per cup of water)? Justify.

REASONING

Show your thinking

Answer