

10. Independent Practice — Worksheet B

Name: _____ **Class:** _____ **Date:** _____

For Questions 1–6, decide whether the relationship is proportional. Give a reason, not only “yes” or “no.”

1-4.

x	0	1	2	3
y	0	7	14	21
x	0	1	2	3
y	2	5	8	11
x	1	2	4	6
y	12	24	48	72
x	1	2	3	4
y	4	7	10	13

5. $y = 2.5x$

6. $y = 2.5x + 4$

7. A worker earns \$84 in 7 hours. Find the hourly rate.

8. At the same rate, how much will the worker earn in 12 hours?

9. A recipe uses 4 cups of rice for 10 people. How much rice is needed for 25 people?

10. A store sells 3 bottles for \$6. At the same rate, what is the cost of 11 bottles?

11. Explain why the relationship “\$5 to start and \$2 per kilometre” is not proportional, even though the cost increases by \$2 for each kilometre.

12. A student says that 3:5 and 6:8 are equivalent because both numbers increased. Write a correction that names the correct scale factor.

13. Create a proportional relationship with a unit rate of 7.5. Give a context, table, and equation.

14. Create a non-proportional relationship with a constant difference of 3. Give a context and explain why it is not proportional.
