Name_____

Proportional Relationships – Practice

1. What point is on the graph of every proportional relationship?_____

Tell whether x and y show a proportional relationship. Explain your reasoning.

1.

x	y
1	4
2	8
3	12
4	16

2.

x	y
0	−2
1	1
2	4
3	7

3.

x	y
−2	4
−1	2
0	0
1	2

4.

x	1	2	3	4
y	2	4	6	8

5.

x	−2	−1	0	1
y	0	2	4	6

6.

x	−1	0	1	2
y	−2	−1	0	1

7.

x	4	8	12	16
y	1	2	3	4

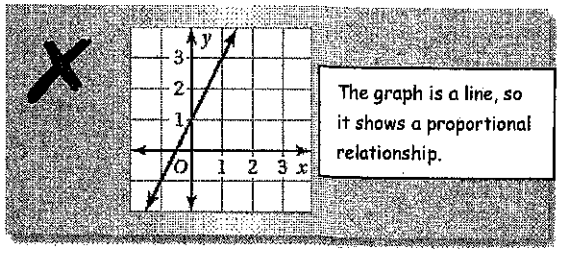
8.

x	−1	0	1	2
y	1	0	1	2

9.

x	3	6	9	12
y	2	4	6	8

10. **Error Analysis** – Describe and correct the error in telling whether x and y show a proportional relationship.



11. Recycling – The table shows the profit y for recycling x pounds of aluminum. Tell whether x and y show a proportional relationship.

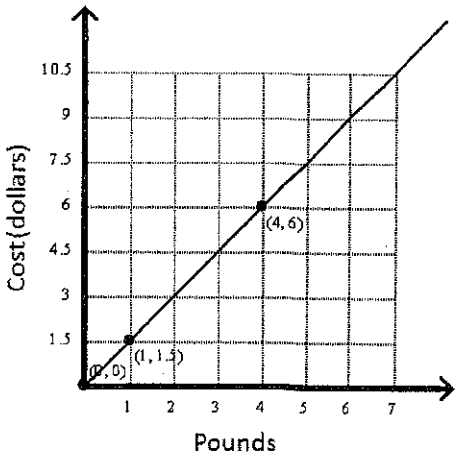
Aluminum, x	10	20	30	40
Profit, y	$4.50	$9.00	$13.50	$18.00

12. Is the graph of every proportional relationship equation a line? _____

Does the graph of every line represent a proportional relationship?_____

Explain:

13. The cost of apples is proportional to the number of pounds purchased. Interpret each plotted point in the graph.



14. The distance traveled by a bicyclist is proportional to the number of hours traveled. Interpret each plotted point in the graph.