

Proportional vs. Non-proportional

Proportional - Quantities that have a constant ratio (The Unit rates are the same)

Non-Proportional - Quantities that DO NOT have a constant ratio
(The unit rates are different)

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Identify if the following are proportional or non-proportional. Explain.

1. Cost per pizza

Cost	9	18	45	63
Pizzas	1	2	5	7
	9	9	9	9

Proportional - All the unit rates are \$9 per pizza

2. Money per Week

Weeks	1	2	3	4
Balance	140	160	180	200

$$140 \div 1 = 140$$

$$160 \div 2 = 80$$

$$180 \div 3 = 60$$

$$200 \div 4 = 50$$

Non-proportional - The unit rates are all different

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on own

\$ per hour

1.

Time	1	2	3	5	8
\$	45	90	135	225	360

$$45 \div 1 = 45$$

$$90 \div 2 = 45$$

$$135 \div 3 = 45$$

$$225 \div 5 = 45$$

$$360 \div 8 = 45$$

Proportional - All the unit rates are \$45 per hour

gallons per hour

2.

Time	2	3	7	10
Gal.	10	15	35	55

$$10 \div 2 = 5$$

$$15 \div 3 = 5$$

$$35 \div 7 = 5$$

$$55 \div 10 = 5.5$$

Non-proportional - The unit rates are all different

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