

Student Name: _____

Class Name: **0606 - 008 - M/j Grade 7 Math (0) - 0772**

Number of Questions: **5**

Instructor Name: **Howard, Kathryn**

Question 1 of 5

For each table, determine whether it shows that x and y are proportional.

If x and y are proportional, fill in the blank with a number in simplest form.

Table 1				Table 2			
x	14	21	5	x	2	3	5
y	2	3	35	y	6	12	25
<input type="radio"/> Proportional y is _____ times x				<input type="radio"/> Proportional y is _____ times x			
<input type="radio"/> Not proportional				<input type="radio"/> Not proportional			

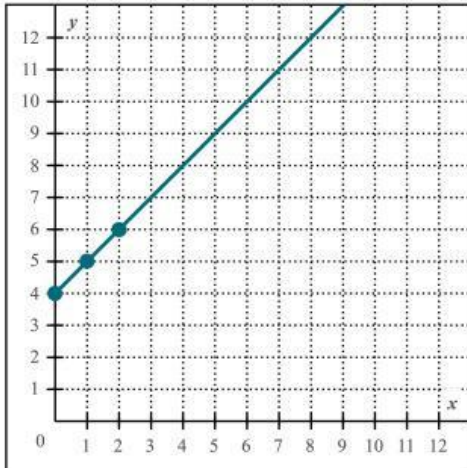
Question 2 of 5

Each graph below shows a relationship between x and y .

For each graph, determine whether x and y are proportional.

If x and y are proportional, fill in the blank with a number.

Graph 1

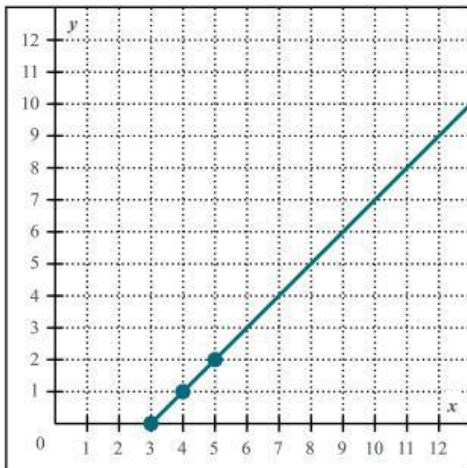


Proportional

y is _____ times x

Not proportional

Graph 2



Proportional

y is _____ times x

Not proportional

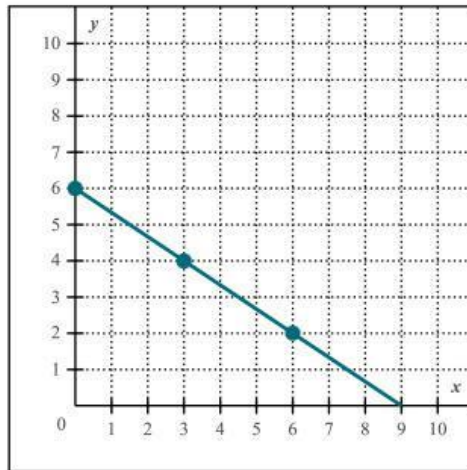
Question 3 of 5

Each graph below shows a relationship between x and y .

For each graph, determine whether x and y are proportional.

If x and y are proportional, fill in the blank with a number in simplest form.

Graph 1

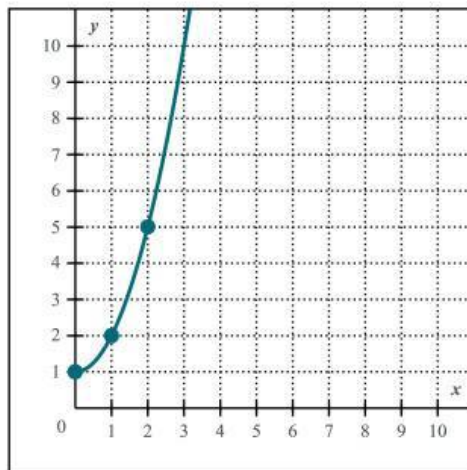


Proportional

y is _____ times x

Not proportional

Graph 2

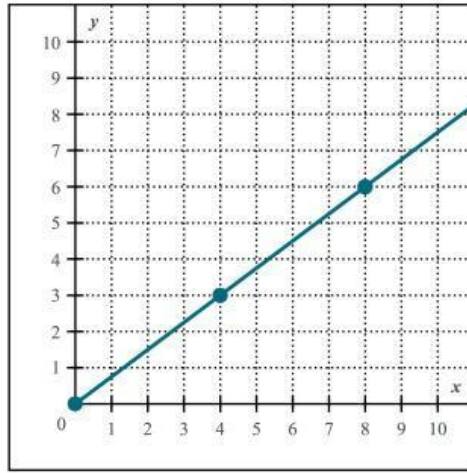


Proportional

y is _____ times x

Not proportional

Graph 3



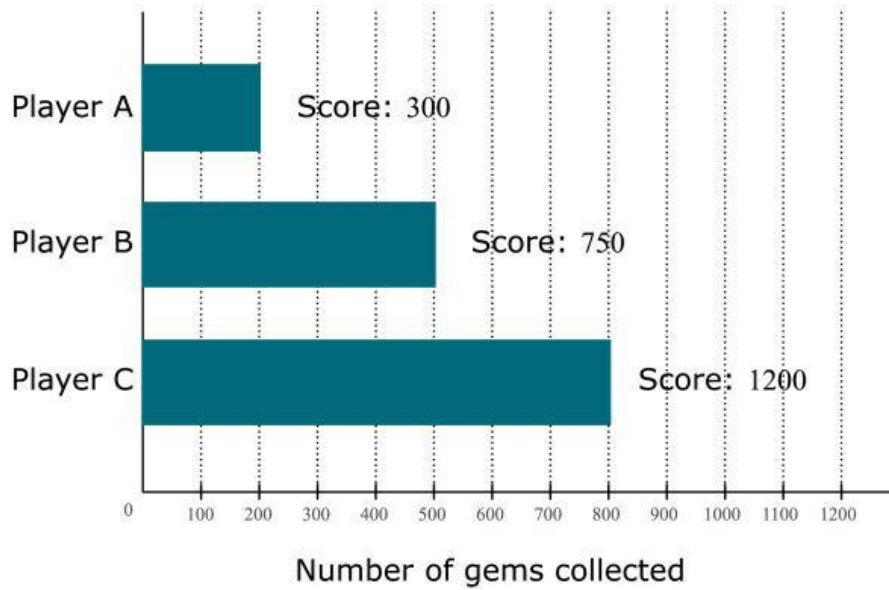
Proportional

y is _____ times x

Not proportional

Question 4 of 5

Three friends took turns playing the game Gem Prodigy. Player A collected 200 gems, Player B collected 500 gems, and Player C collected 800 gems. The diagram below shows the score for each player.



State whether the score and number of gems collected are proportional for the three players. If they are proportional, fill in the blank with a whole number or a decimal.

Proportional

The player's score is _____ times the number of gems the player collected.

Not proportional

Question 5 of 5

For each table, determine whether it shows that x and y are proportional.

If x and y are proportional, fill in the blank with a number in simplest form.

Table 1					Table 2				
x	5	6	7	8	x	5	7	9	11
y	25	30	35	40	y	5	21	45	77

Proportional

y is _____ times x

Not proportional

Proportional

y is _____ times x

Not proportional

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Question 1 of 5

Table 1

x	14	21	5
y	2	3	35

Proportional

y is times x

Not proportional

Table 2

x	2	3	5
y	6	12	25

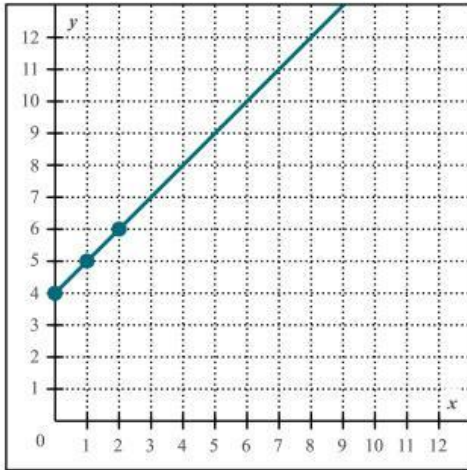
Proportional

y is times x

Not proportional

Question 2 of 5

Graph 1

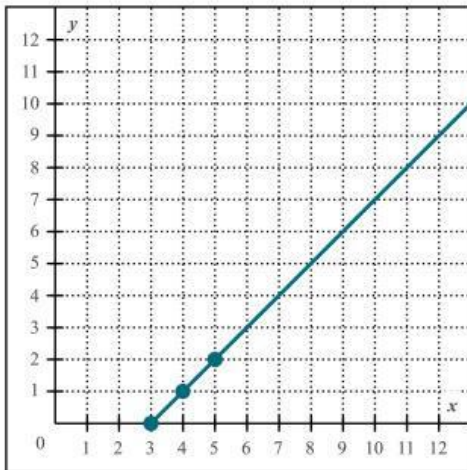


Proportional

y is _____ times x

Not proportional

Graph 2



Proportional

y is _____ times x

Not proportional

Question 3 of 5

(a) Proportional

y is times x

Not proportional

(b) Proportional

y is times x

Not proportional

(c) Proportional

y is $\frac{3}{4}$ times x

Not proportional

Question 4 of 5

Proportional

The player's score is 1.5 times the number of gems the player collected.

Not proportional

Question 5 of 5

Note that x and y are proportional if we can always multiply x by the same number to get y .

This number is given by the ratio of y to x (except when $x = 0$).

In other words, x and y are proportional if the ratio of y to x is always the same (except when $x = 0$).

Table 1

We'll check whether the first table shows that x and y are proportional.

We compute the ratio of y to x for each column.

x	5	6	7	8
y	25	30	35	40
Ratio of y to x	$\frac{25}{5} = 5$	$\frac{30}{6} = 5$	$\frac{35}{7} = 5$	$\frac{40}{8} = 5$

The ratio of y to x is always the same.

So the table shows that x and y are **proportional**.

Because the ratio of y to x is **5**, we have that **y is 5 times x** .

Table 2

We'll check whether the second table shows that x and y are proportional.

We compute the ratio of y to x for each column.

x	5	7	9	11
y	5	21	45	77
Ratio of y to x	$\frac{5}{5} = 1$	$\frac{21}{7} = 3$	$\frac{45}{9} = 5$	$\frac{77}{11} = 7$

The ratio of y to x is *not* always the same.

So the table shows that x and y are **not proportional**.