Identifying Unit Rate/ Constant of Proportionality Assessment Name:_____

Tell whether each situation represents a direct proportion. If so, identify the constant of variation.

1. There are 500 calories in 2 servings of cupcakes. _____

2. A taxi cab charges a flat fee of $5 upon entry and then $2 per mile. _____

Tell whether each equation represents a direct proportion. If so, identify the constant of variation.

1. $y = 6x$ _____

2. $y = {}^{4}/_{5}x$ _____

3. $y = 4.5x$ _____

4. $y = 3x + 2$ _____

5. $y = x - 7$ _____

6. $3y = 9x$ _____

Tell whether each equation represents a direct proportion. If so, identify the constant of variation.

7.

Weight of grapes (kg)	10	15	20
Cost ($)	15	22.50	30

_____

8.

X	0	1	2	3
y	5	10	15	20

_____

9.

# of buses	2	3	4
Students	65	85	105

_____

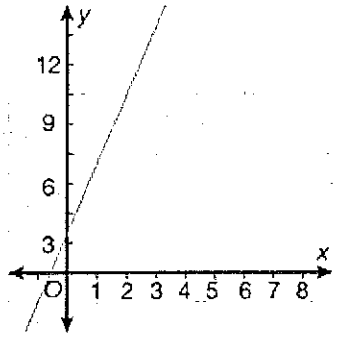
10.

X	0	2	4	6
y	0	6	12	18

_____

Tell whether each equation represents a direct proportion. If so, identify the constant of variation.

11.



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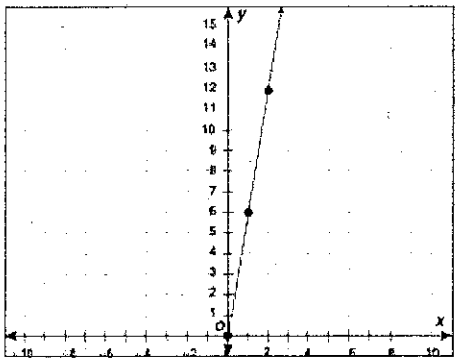
12.



_____

Constant of Proportionality in Tables Name:_____

Tell whether each represents a direct proportion. If so, identify the constant of proportionality.

1.

x	1	2	3
y	3	6	9

_____

2.

x	2	3	4
y	7	10.5	14

_____

3.

x	1	2	3
y	3	5	9

_____

4.

x	1	2	3
y	10	20	30

_____

5.

x	3	4	5
y	21	28	35

_____

6.

x	0	1	2
y	3	6	9

_____

7.

x	0	1	2
y	0	4	8

_____

8.

x	1	2	3
y	-3	0	3

_____

9.

x	2	3	4
y	18	27	36

_____

10.

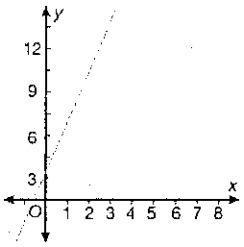
x	3	4	5
y	15	20	25

_____

Constant of Proportionality in Graphs Name:_____

Tell whether each represents a direct proportion. If so identify the constant of proportionality.

1.



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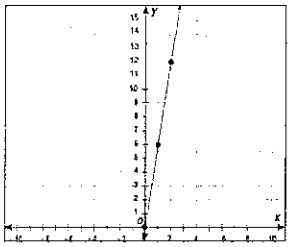
2.



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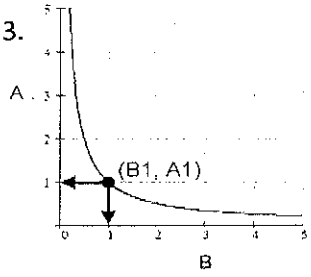
3.



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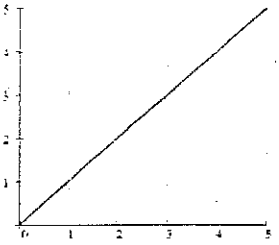

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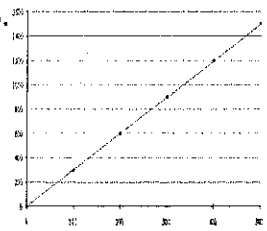
5.



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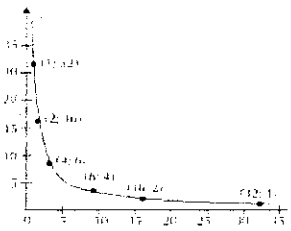
6.



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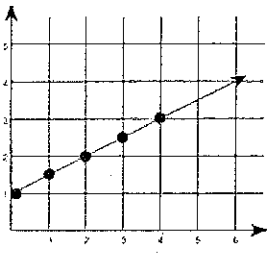
7.



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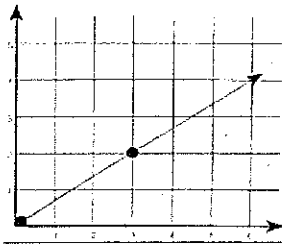
8.



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