Unit: Proportional Relationships
Homework 3

Name _____

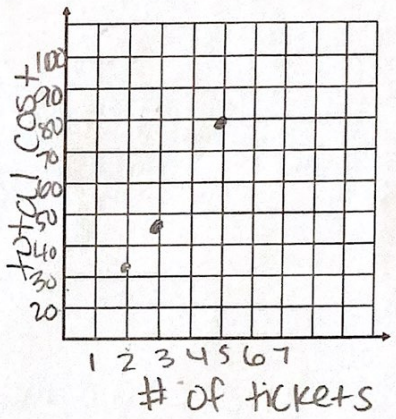
Date _____ Pd _____

PROPORTIONAL RELATIONSHIPS: GRAPHS

Use your understanding of proportional relationships to answer the questions below.

DeMarcus is organizing a group of friends to attend a concert. The ticket pricing is shown in the table below. Use the information to create a graph and answer the questions.

# OF TICKETS	2	3	5	7
TOTAL COST ($)	32	48	80	112

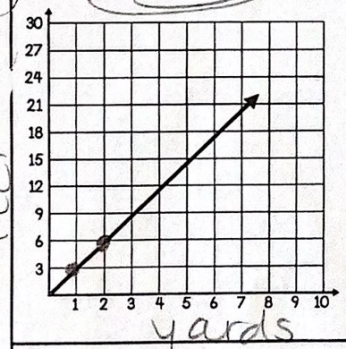


1. Rate of Change: 16 Equation: $y = 16x$
2. What does the ordered pair (1, 16) represent in this situation?
   1 ticket cost $16
3. Describe how you know that this is a proportional relationship:
   there is a constant and it goes through origin

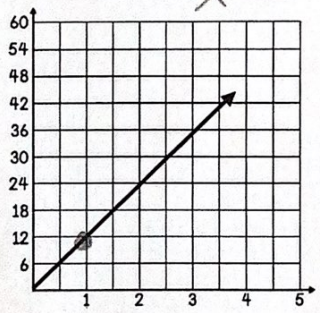
4. The number of feet in a yard can be represented by a graph. Circle the graph(s) that could be used to represent the number of feet, y, in x yards.

12÷3=4 24÷6=4

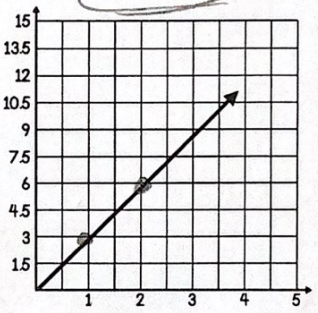
GRAPH A



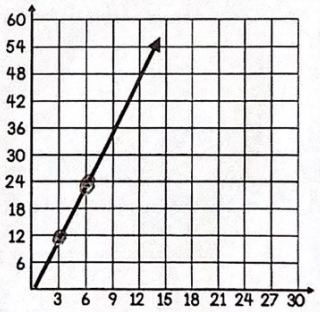
GRAPH B X



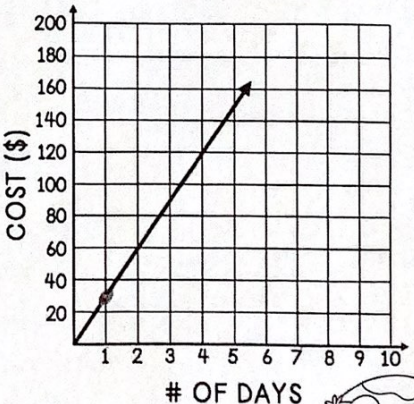
GRAPH C



GRAPH D X



A dog kennel charges a daily boarding rate as shown on the graph. Use the information to mark 5-8 as true or false. If false, rewrite the statement correctly.



F 5. The dog kennel charges $60 per day.
charges $30 per day

T 6. The equation y = 30x can represent the graph.

F 7. It costs $200 to board a dog for 7 days.
It costs $210

T 8. The graph will contain the coordinate (9, 270).
270÷9=30