2016 Mathematics Standards of Learning

Algebra Readiness Formative Assessment

# 7.10e

1. Steven went to play video games in Games Galore arcade. Games Galore charges $1.50 for each game played. Represent the relationship between total cost, *y,* and number of games played, *x* using a table, graph and equation. Is this relationship a proportional or additive relationship? Explain.
2. Sam went to play video games in Video Game Central arcade. Video Game Central charges $10 to get into the arcade and then $1 per game played. Represent the relationship between total cost, *y,* and number of games played, *x* using a table, graph and equation. Is this relationship a proportional or additive relationship? Explain.
3. The graph represents which table of ordered pairs?



1. B.

| x | y |
| --- | --- |
| -3 | -5 |
| -1 | -3 |
| 2 | 0 |
| 4 | 2 |

| x | y |
| --- | --- |
| 2 | -2 |
| 4 | 0 |
| -1 | -3 |
| -3 | 5 |

| x | y |
| --- | --- |
| -2 | -4 |
| 0 | -2 |
| 3 | 1 |
| 5 | 5 |

| x | y |
| --- | --- |
| -4 | -2 |
| -2 | 0 |
| 1 | 3 |
| 3 | 5 |

1. D.

1. Which graph best corresponds to this table of ordered pairs?

| *x* | *y* |
| --- | --- |
| -2 | -2 |
| -1 | -1 |
| 1 | 1 |
| 2 | 2 |



1. Which of the following graph represents the same relationship as “*y* is four more than *x*”?
2.



1.



1. 



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