2016 Mathematics Standards of Learning Algebra Readiness Formative Assessment

7.10a

1. On Monday, Richard worked for 4 hours and earned \$36. On Tuesday, Richard worked for 6 hours and earned \$54. On Wednesday, Richard worked for 5 hours and earned \$45.

Are his earnings proportional?

What is the rate of change for his earnings?

Represent his earnings in a y = mx function, where hours are represented by x and earnings are represented by y, and m represents the rate of change.

If Richard worked for 7 hours on Thursday, how much money would he earn?

How many hours did Richard work on Friday, when he earned \$81

2. Given:

x	у
2	2.2
4	4.4
6	6.6

Which rate of change (m), would represent this proportional relationship?

A. m = 0.2B. m = 1.1C. m = 2.2D. m = 2 3. Given:

X	у
3	6.3
6	12.6
9	18.9

Which equation would represent this proportional relationship?

- A. y = 0.2 xB. y = 1.1 xC. y = 2.1x
- D. y = 2x
- 4. Which of the following represents a proportional relationship between the x- and y-values?

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Α.	

x	У
1	5
2	6
3	7



X	У
1	1
2	5
3	9

C.

x	у
2	3
4	5
6	7

D.

x	У
2	3
4	6
6	9